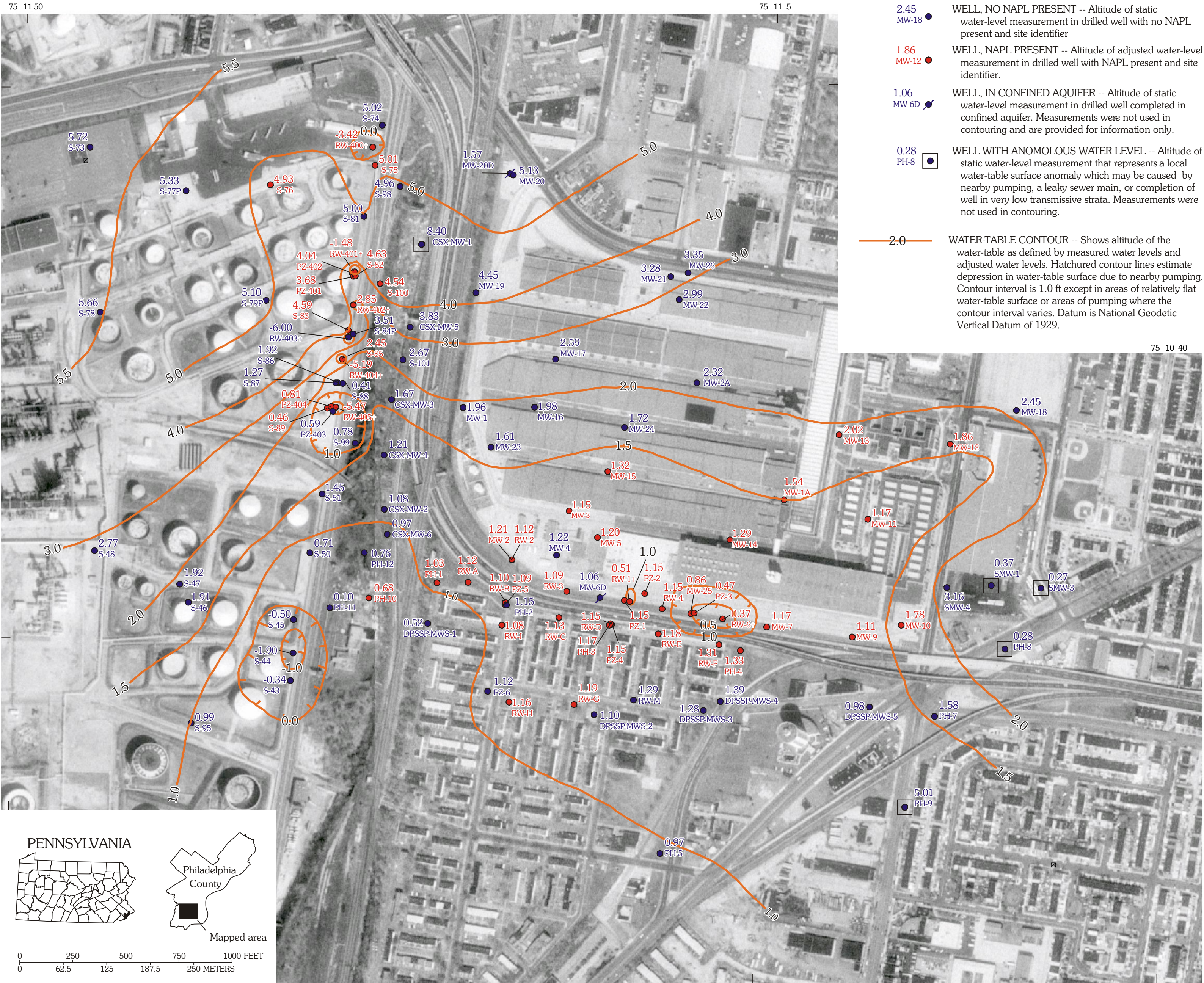


Site identification number	USGS Local well number	Casing altitude TOC feet above NGVD 1929	Water- level in feet below TOC	Water- level altitude feet above or below (-) NGVD 1929	NAPL level in feet below TOC	NAPL level altitude feet above or below (-) NGVD 1929	Adjusted water level altitude feet above or below (-) NGVD 1929
MW-1	Ph-916	20.78	18.82	1.96	--	--	--
MW-10	Ph-917	16.56	14.79	1.77	14.78	1.78	1.78
MW-11	Ph-918	20.21	20.65	- .44	18.59	1.62	1.17
MW-12	Ph-919	19.54	17.90	1.64	17.63	1.91	1.86
MW-13	Ph-920	20.38	18.45	1.93	18.34	2.04	2.02
MW-14	Ph-921	20.27	20.35	-.08	18.58	1.69	1.29
MW-15	Ph-922	22.58	22.03	.55	21.04	1.54	1.32
MW-16	Ph-923	20.36	18.38	1.98	--	--	--
MW-17	Ph-924	22.25	19.66	2.59	--	--	--
MW-18	Ph-925	17.93	15.48	2.45	--	--	--
MW-19	Ph-926	23.12	18.67	4.45	--	--	--
MW-1A	Ph-927	21.33	20.40	.93	19.64	1.69	1.54
MW-2	Ph-928	21.83	21.25	.58	20.42	1.41	1.21
MW-20	Ph-929	25.66	20.53	5.13	--	--	--
MW-20D	Ph-930	25.8	24.23	1.57	--	--	--
MW-21	Ph-931	20.18	16.90	3.28	--	--	--
MW-22	Ph-932	21.7	18.71	2.99	--	--	--
MW-23	Ph-933	20.72	19.11	1.61	--	--	--
MW-24	Ph-934	20.95	19.23	1.72	--	--	--
MW-25	Ph-935	20.36	23.25	-2.89	18.42	1.94	0.86
MW-26	Ph-936	20.4	17.05	3.35	--	--	--
MW-2A	Ph-937	21.13	18.81	2.32	--	--	--
MW-3	Ph-938	20.34	20.58	-.24	18.78	1.56	1.15
MW-4	Ph-939	20.6	19.38	1.22	--	--	--
MW-5	Ph-940	20.32	20.17	.15	18.82	1.50	1.20
MW-6D	Ph-941	21.45	20.39	1.06	--	--	--
MW-7	Ph-942	19.31	19.45	-.14	17.81	1.50	1.17
MW-9	Ph-943	20.08	21.28	-1.20	18.32	1.76	1.11
PZ-1	Ph-944	21.24	21.40	-.16	19.73	1.51	1.15
PZ-2	Ph-945	21.08	21.28	-.20	19.55	1.53	1.15
PZ-3	Ph-946	20.23	22.10	-1.87	19.11	1.12	.47
RW-1+	Ph-947	20.87	23.72	-2.85	19.37	1.50	.51
RW-2	Ph-948	20.83	20.88	-.05	19.34	1.49	1.12
RW-3	Ph-949	21.85	22.15	-.30	20.33	1.52	1.09
RW-4	Ph-950	20.54	20.72	-.18	19.00	1.54	1.15
RW-6+	Ph-951	20.02	20.26	-.24	19.48	.54	.37
CSX-MW-1	Ph-952	51.32	42.92	8.40	--	--	--
CSX-MW-2	Ph-953	46.7	45.62	1.08	--	--	--
CSX-MW-3	Ph-954	48.12	46.45	1.67	--	--	--
CSX-MW-4	Ph-955	47.15	45.94	1.21	--	--	--
CSX-MW-5	Ph-956	49.76	45.93	3.83	--	--	--
CSX-MW-6	Ph-957	45.92	44.95	.97	--	--	--
DPSSP-MWS-1	Ph-958	24.01	23.49	.52	--	--	--
DPSSP-MWS-2	Ph-959	19.97	18.87	1.10	--	--	--
DPSSP-MWS-3	Ph-960	16.06	14.78	1.28	--	--	--
DPSSP-MWS-4	Ph-961	17.54	16.15	1.39	--	--	--
DPSSP-MWS-5	Ph-962	15.2	14.22	.98	--	--	--
SMW-1	Ph-963	18.55	18.18	.37	--	--	--
SMW-3	Ph-964	17.82	17.55	.27	--	--	--
SMW-4	Ph-965	18	14.84	3.16	--	--	--
PH-1	Ph-966	23.39	22.95	.44	22.17	1.22	1.03
PH-2	Ph-967	21.30	20.15	1.15	--	--	--
PH-3	Ph-968	22.24	22.45	-.21	20.64	1.6	1.17
PH-4	Ph-969	18.25	18.02	.23	16.58	1.67	1.33
PH-5	Ph-970	15.04	14.07	.97	--	--	--
PH-7	Ph-971	14.56	12.98	1.58	--	--	--
PH-8	Ph-972	16.06	15.78	.28	--	--	--
PH-9	Ph-973	15.50	10.49	5.01	--	--	--
PH-10	Ph-974	21.82	21.46	.36	21.04	.78	.68
PH-11	Ph-975	21.65	21.55	.10	--	--	--
PH-12	Ph-976	21.51	20.75	.76	--	--	--
PZ-4	Ph-977	22.04	22.25	-.21	20.46	1.58	1.15
PZ-5	Ph-978	21.04	21.28	-.24	19.54	1.5	1.09
PZ-6	Ph-979	21.26	20.14	1.12	--	--	--
RW-A	Ph-980	21.53	21.35	.18	20.11	1.42	1.12
RW-B	Ph-981	22.14	22.37	-.23	20.63	1.51	1.10
RW-C	Ph-982	21.71	21.91	-.20	20.16	1.55	1.13
RW-D	Ph-983	22.06	22.27	-.21	20.49	1.57	1.15
RW-E	Ph-984	19.93	19.99	-.06	18.36	1.57	1.18
RW-F	Ph-985	18.75	18.51	.24	17.11	1.64	1.31
RW-G	Ph-986	19.40	19.50	-.10	17.81	1.59	1.19
RW-H	Ph-987	20.12	20.28	-.16	18.55	1.57	1.16
RW-I	Ph-988	21.14	21.48	-.34	19.61	1.53	1.08
RW-M	Ph-989	18.85	17.56	1.29	--	--	--
S-100	Ph-990	27.95	23.69	4.26	23.32	4.63	4.54
S-101	Ph-991	50.12	47.45	2.67	--	--	--
S-43	Ph-992	24.22	24.56	-.34	--	--	--
S-44	Ph-993	24.32	26.22	-1.90	--	--	--
S-45	Ph-994	22.57	23.07	-.50	--	--	--
S-47	Ph-995	23.22	21.30	1.92	--	--	--
S-48	Ph-996	22.02	19.25	2.77	--	--	--
S-50	Ph-997	23.46	22.75	.71	--	--	--
S-51	Ph-998	24.76	23.31	1.45	--	--	--
S-77P	Ph-999	34.08	28.75	5.33	--	--	--
S-79P	Ph-1000	31.46	26.36	5.10	--	--	--
RW-401+	Ph-903	25.78	30.53	-4.75	26.24	-.46	-1.48
S-84P	Ph-1001	23.98	20.47	3.51	--	--	--
S-88	Ph-1002	25.07	24.66	.41	--	--	--
RW-403+	Ph-905	25.09	31.09	-6.00	--	--	--
S-95	Ph-1003	23.95	22.96	.99	--	--	--
S-98	Ph-1004	29.72	24.76	4.96	--	--	--
S-99	Ph-1005	26.29	25.51	.78	--	--	--
PZ-401	Ph-1006	25.09	22.06	3.03	21.21	3.88	3.68
PZ-402	Ph-1007	24.61	20.97	3.64	20.45	4.16	4.04
RW-402+	Ph-904	21.06	21.82	-.76	17.08	3.98	2.85
RW-404+	Ph-906	24.73	30.19	-5.46	29.83	-5.1	-5.19
RW-405+	Ph-907	25.10	30.75	-5.65	30.51	-5.41	-5.47
PZ-404	Ph-1008	27.25	26.65	.60	26.38	.87	.81
PZ-403	Ph-1009	26.99	26.4	.59	--	--	--
S-46	Ph-1010	23.55	21.64	1.91	--	--	--
S-73	Ph-1011	36.66	30.94	5.72	--	--	--
S-74	Ph-1012	31.11	26.09	5.02	--	--	--
S-75	Ph-1013	32.24	27.83	4.41	27.04	5.2	5.01
S-76	Ph-1014	32.01	28.4	3.61	26.67	5.34	4.93
S-78	Ph-1015	31.92	26.26	5.66	--	--	--
S-81	Ph-1016	28.86	23.86	5.00	--	--	--
S-83	Ph-1017	24.40	20.52	3.88	19.59	4.81	4.59
S-85	Ph-1018	26.05	23.66	2.39	23.58	2.47	2.45
S-86	Ph-1019	28.05	26.13	1.92	--	--	--
S-87	Ph-1020	26.88	25.61	1.27	--	--	--
S-89	Ph-1021	26.98	26.75	-.23	26.45	.53	.46
RW-400+	Ph-902	29.20	32.88	-3.68	32.54	-3.34	-3.42
S-82	Ph-1022	28.30	24.05	4.25	23.55	4.75	4.63



Water levels were adjusted to account for a depressed water-table surface due to the weight of the floating NAPL. The water-level adjustment was calculated with the following equation:
Adjusted water-level altitude = Altitude of NAPL/water-level interface + (specific gravity of NAPL - NAPL thickness)
RW-400+ - Wells denoted with + were being pumped at the time of the water level measuring.
[TOC, top of casing; --, not applicable]
NGVD, 1929 is National Geodetic Vertical Datum of 1929

Base from U.S. Geological Survey, Digital Orthophoto quarter quadrangle,
Philadelphia-SE DOQQ, 1992,
Philadelphia-SW DOQQ, 1992

Altitude and configuration of the water-table surface in the vicinity of the Defense Supply Center, Philadelphia and the Point Breeze Refinery, Philadelphia, Pennsylvania , September 22, 1998

by
Curtis L. Schreffler
2000