#### CHESTER COUNTY

#### 395046075434401. Local number, CH 5180 (New Garden Township, Chester County, Spray Irrigation Project)

LOCATION.--Lat 39°50'46", long 75°43'44", Hydrologic Unit 02040205, at Spray Irrigation Site in New Garden Township.

Owner: New Garden Township Municipal Authority.

AQUIFER.--Felsic Gneiss of Precambrian age.

#### WATER-LEVEL RECORDS

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 32 ft, cased to 30 ft, closed end, screened from 20-30 ft. **INSTRUMENTATION**.--Electronic data logger with 60-minute recording interval.

DATUM.--Elevation of land surface is 400.9 ft above sea level. Measuring point: Top of plywood shelf, 1.3 ft above land-surface datum.

REMARKS.--In addition to the daily mean water levels shown below, daily maximum and minimum water levels, since August 1999, are also available from the District Office. Data for this project are presented in tables on pages XXX, and XXX.

PERIOD OF RECORD.--August 9, 1999 to current year.

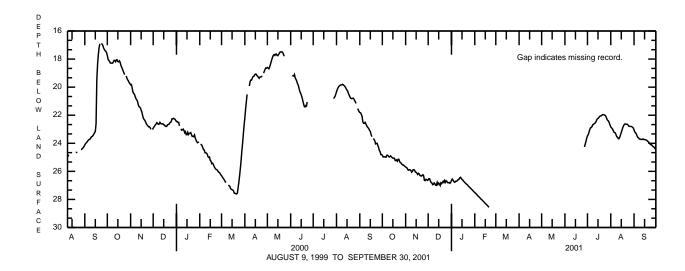
EXTREMES FOR PERIOD OF RECORD.--The extremes shown are extremes of the instantaneous depth below land surface for the period of record

indicated above.

Highest water level, 16.85 ft below land-surface datum, Sept. 21, 1999; lowest, 30.00 ft below land-surface datum, Mar. 26, 2001. **EXTREMES FOR CURRENT YEAR**.--Highest water level, 21.94 ft below land-surface datum, July 21, 22; lowest, 30.00 ft below land-surface datum,

#### DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.85	25.69	26.61	26.64	27.51					23.46	22.83	23.05
2	24.97	25.72	26.52	26.55	27.56					23.39	22.90	23.19
3	24.97	25.77	26.54	26.62	27.61					23.22	22.95	23.26
4	24.96	25.89	26.69	26.71	27.67				27.63	23.02	23.06	23.33
5	24.98	25.92	26.80	26.77	27.74					22.90	23.19	23.48
6	24.99	25.88	26.83	26.76	27.79				26.46	22.88	23.24	23.57
7	24.85	25.90	26.95	26.69	27.84					22.81	23.26	23.62
8	24.85	25.93	26.93	26.69	27.89					22.68	23.39	23.68
9	24.91	26.06	26.82	26.66	27.96					22.65	23.53	23.72
10	24.98	26.01	26.88	26.58	28.01					22.60	23.57	23.71
11	24.95	25.88	26.99	26.57	28.05					22.56	23.67	23.73
12	24.90	25.88	27.00	26.46	28.11					22.50	23.67	23.73
13	24.96	25.93	26.78	26.42	28.17					22.37	23.56	23.69
14	25.02	26.05	26.93	26.49	28.23					22.27	23.39	23.73
15	25.06	26.06	26.83	26.58	28.29					22.23	23.23	23.74
	05.06	06.10	06.00	06.60	00 04					00 10	00.06	00 54
16	25.06	26.13	26.90	26.62	28.34					22.18	23.06	23.74
17	25.06	26.22	27.01	26.69	28.39					22.10	22.88	23.77
18	25.22	26.14	26.81	26.75	28.44					22.05	22.76	23.79
19	25.24	26.18	26.87	26.81	28.51					22.05	22.66	23.86
20	25.18	26.29	26.78	26.86	28.56					22.01	22.62	23.89
21	25.27	26.32	26.70	26.91						21.96	22.63	23.95
22	25.14	26.34	26.79	26.95						21.96	22.65	24.03
23	25.14	26.28	26.65	27.02						21.97	22.64	24.10
24	25.30	26.24	26.78	27.02						21.99	22.70	24.08
25	25.38	26.32	26.67	27.13						22.04	22.78	24.15
23	23.30	20.32	20.07	27.13						22.01	22.70	21.13
26	25.41	26.64	26.72	27.18						22.14	22.79	24.23
27	25.50	26.66	26.81	27.24					24.26	22.30	22.80	24.24
28	25.54	26.57	26.81	27.29					24.06	22.37	22.80	24.31
29	25.54	26.58	26.79	27.34					23.86	22.42	22.81	24.39
30	25.60	26.64	26.85	27.41				27.63	23.64	22.54	22.87	24.41
31	25.64		26.78	27.46						22.70	22.91	
MEAN	25.14	26.14	26.80	26.84	28.03			27.63	24.99	22.46	23.03	23.81
MAX	25.64	26.66	27.01	27.46	28.56			27.63	27.63	23.46	23.67	24.41
MTN	24.85	25.69	26.52	26.42	27.51			27.63	23.64	21.96	22.62	23.05



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### WATER-QUALITY RECORDS

**REMARKS.**--Samples collected with disposable bailer or a submersible pump from recovery water after well was bailed more than three casing volumes. **PERIOD OF RECORD**.--June 1999 to current year.

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
OCT 2000											
17	1400	9813	1028	9.6	5.7	351	12.8				
NOV	1430	9813	1028	8.9	5.8	312	11 0				
15 DEC	1430	9813	1028	8.9	5.8	312	11.9				
11	1530	9813	1028		5.2	300	9.6	22.4	14.6	3.06	5.4
JAN 2001											
16 FEB	1400	9813	1028		5.9	300	11.2				
20	1400	9813	1028		5.5	319	12.1				
JUN											
04	1300	9813	1028		6.0	243	12.9				
25	1500	9813	1028	8.3	5.7	316	12.3	30.6	17.4	3.37	6.2
JUL	1000	0013	1000		<b>5</b> 4	076	10.2				
19 AUG	1200	9813	1028		5.4	276	12.3				
28	1600	9813	1028		5.7	297	12.9				

DATE	ANC WATER UNFLTRD IT FIELD (MG/L AS CACO3) (00419)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)
OCT 2000										
17	28							.070	.07	2.6
NOV										
15	27							.310	.33	2.0
DEC 11	24	<.20	54.0	<.2	8.3	13.7	244	.110		1.9
JAN 2001	24	<.20	34.0	<.∠	0.3	13.7	244	.110		1.9
16	24							.030	.03	1.8
FEB										
20	29							.020	.02	2.1
JUN										
04	42							<.020	< .02	1.9
25	26	< .20	72.4	< . 2	10.2	19.6	432	<.020		2.1
JUL										
19	32							<.020	<.02	2.5
AUG										
28	27							<.020	< .02	2.5

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## WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	BORON, DIS- SOLVED (µG/L AS B) (01020)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µG/L AS MN) (01056)	ZINC, DIS- SOLVED (µG/L AS ZN) (01090)
OCT 2000									
17	2.20	< .040	<.010	<.010					
NOV									
15	1.41	< .040	<.010	<.010					
DEC									
11	1.57	<.040	.010	<.010	1.2	<200	280	21.0	48
JAN 2001 16	1.53	<.040	<.010	<.010					
FEB	1.55	<.040	<.010	<.010					
20	1.81	<.040	<.010	<.010					
JUN	1.01	1.010	1.010	1.010					
04	1.69	< .040	< .010	< .010					
25	2.01	< .040	< .010	<.010	<1.0	<200	<20	<10.0	<10
JUL									
19	2.02	< .040	.014	<.010					
AUG									
28	2.21	< .040	.016	.012					