

SWATARA CREEK BASIN

403542076263201 ROWE DRAINAGE TUNNEL, SITE E2-244, NR JOLIETT, PA
(Swatara Creek Project)

LOCATION.--Lat 40°35'42", long 76°26'32", Schuylkill County, Hydrologic Unit 02050305, on left bank above weir, 350 ft downstream from drainage tunnel. Located on Schuylkill County property.

PERIOD OF RECORD.--April 1996 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to current year.

pH: April 1999 to current year.

WATER TEMPERATURE: April 1999 to current year.

INSTRUMENTATION.--Water-quality monitor (in situ system).

REMARKS.--Interruptions in the record were due to malfunctions of the instrumentation. Some values for "dissolved" parameters exceed values for the corresponding "total" parameter. These results are within the limits of analytical precision and methods. Instantaneous discharge data provided by the Pottsville Mining office of the Pennsylvania Department of Environmental Protection. Other data for this project presented in tables on pages 342-386. Figure 8 shows the location of sites sampled as part of the Swatara Creek Project. Abbreviations used: E, estimated.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (µS/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	PH WATER WHOLE LAB (STANDARD UNITS) (00403)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXIDATION REDUCTION POTENTIAL (MV) (00090)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
MAR 17...	1345	1028	9813	7.5	183	6.5	--	--	512	7.0	13.0
APR 12...	1445	1028	9813	6.6	287	5.2	--	--	336	12.0	11.0
MAY 25...	1400	1028	9813	4.8	292	5.5	--	--	382	12.0	9.4
MAY 28...	1045	1028	80020	4.6	253	6.3	6.0	5	269	12.0	9.5
JUN 30...	1515	1028	9813	--	238	6.1	--	--	216	12.5	5.9
JUL 14...	0915	1028	9813	2.1	263	6.1	--	--	227	12.0	11.0
JUL 28...	1130	1028	80020	2.0	261	6.3	6.1	40	238	12.0	10.0
AUG 13...	1645	1028	9813	2.9	482	4.0	--	--	534	12.5	8.5
SEP 16...	1615	1028	9813	6.4	409	4.8	--	--	411	13.5	7.1

DATE	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	ACIDITY (MG/L AS CaCO3) (00435)	ACIDITY TOTAL HEATED (MG/L AS CaCO3) (70508)	CALCIUM TOTAL RECOVERABLE (MG/L AS Ca) (00916)	CALCIUM DISSOLVED (MG/L AS Ca) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS Mg) (00927)	MAGNESIUM, DISSOLVED (MG/L AS Mg) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS Na) (00929)	SODIUM, DISSOLVED (MG/L AS Na) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
MAR 17...	--	--	.00	10	10	18	17	3.5	3.4	--	--
APR 12...	100	--	18	12	12	20	20	3.2	3.2	--	--
MAY 25...	87	--	18	14	13	22	21	3.4	3.2	--	--
MAY 28...	88	29	--	--	10	--	15	--	3.3	--	--
JUN 30...	56	--	40	13	13	20	20	3.2	3.2	--	--
JUL 14...	--	--	.60	11	11	16	15	3.4	3.3	--	--
JUL 28...	96	19	--	--	12	--	16	--	3.6	--	--
AUG 13...	80	--	26	27	27	34	34	5.5	5.5	--	--
SEP 16...	68	--	54	22	21	48	46	3.7	3.4	2.4	2.1

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	ANC WATER UNFLTRD FET LAB MG/L AS CACO3 (00417)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	ALUM- INUM, TOTAL RECOV- ERABLE (µG/L AS AL) (01105)	ALUM- INUM, TOTAL DIS- SOLVED (µG/L AS AL) (01106)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE) (01045)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (µG/L AS MN) (01056)
MAR 17...	--	13	88	--	32	760	<200	8500	7200	1700	1600
APR 12...	--	3	120	--	18	1100	480	7900	6200	2100	2100
MAY 25...	--	3	140	--	8	1200	470	9400	6900	2600	2500
28...	11	--	86	4.7	--	--	56	--	9500	--	1800
JUN 30...	--	22	100	--	14	920	<200	11000	10000	2000	2000
JUL 14...	--	24	96	--	34	710	<200	12000	10000	1900	1800
28...	10	--	93	4.6	--	--	560	17000	11000	--	2000
AUG 13...	0	0	230	--	12	1500	1400	7500	5700	3200	3200
SEP 16...	--	0	300	2.3	130	8600	5800	17000	8500	3500	3200

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SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	301	245	289	246	242	243
2	---	---	---	---	---	---	249	244	246	300	244	256
3	---	---	---	---	---	---	252	248	250	327	248	302
4	---	---	---	---	---	---	257	249	253	250	246	247
5	---	---	---	---	---	---	309	257	290	248	238	243
6	---	---	---	---	---	---	322	258	307	241	239	240
7	---	---	---	---	---	---	261	258	260	329	241	270
8	---	---	---	---	---	---	263	259	260	338	261	315
9	---	---	---	---	---	---	334	262	314	261	258	259
10	---	---	---	---	---	---	331	267	276	262	259	261
11	---	---	---	---	---	---	267	261	262	321	262	288
12	---	---	---	---	---	---	318	262	285	327	292	318
13	---	---	---	---	---	---	325	251	283	292	269	275
14	---	---	---	---	---	---	255	251	253	322	269	280
15	---	---	---	---	---	---	296	250	261	360	318	345
16	---	---	---	---	---	---	321	256	303	318	282	288
17	---	---	---	---	---	---	256	253	255	286	283	284
18	---	---	---	---	---	---	256	254	255	339	282	300
19	---	---	---	---	---	---	324	255	300	363	339	355
20	---	---	---	---	---	---	322	257	271	345	304	323
21	---	---	---	---	---	---	258	254	256	323	297	302
22	---	---	---	---	---	---	314	254	273	382	323	362
23	---	---	---	---	---	---	329	270	309	377	303	324
24	---	---	---	---	---	---	270	268	269	304	297	301
25	---	---	---	---	---	---	278	269	271	325	295	303
26	---	---	---	---	---	---	340	278	321	338	244	285
27	---	---	---	---	---	---	342	285	316	247	242	244
28	---	---	---	---	---	---	287	283	285	247	244	246
29	---	---	---	---	---	---	309	286	292	346	247	323
30	---	---	---	---	---	---	318	239	268	337	246	254
31	---	---	---	---	---	---	---	---	---	249	244	247
MONTH	---	---	---	---	---	---	342	239	278	382	238	287
	JUNE			JULY			AUGUST			SEPTEMBER		
1	326	241	264	327	261	266	461	272	352	298	280	290
2	351	245	311	418	279	388	272	264	269	281	276	279
3	246	241	243	279	260	265	266	261	264	466	275	337
4	243	235	239	263	250	258	440	260	330	520	363	464
5	336	232	282	265	247	249	476	282	384	363	282	313
6	349	237	287	393	265	354	282	271	277	365	280	323
7	238	234	236	313	251	265	274	266	271	617	349	499
8	236	234	235	254	250	253	425	264	308	639	441	591
9	348	235	316	362	249	267	500	298	427	441	394	418
10	346	240	263	378	258	294	298	277	285	402	377	391
11	241	237	240	444	296	405	277	271	275	388	372	382
12	312	238	251	296	259	271	383	267	279	592	371	516
13	360	270	334	273	259	264	504	141	416	574	340	390
14	270	245	251	402	272	293	742	216	622	343	320	330
15	253	247	250	439	273	394	521	425	476	524	320	398
16	342	249	286	276	271	274	425	354	392	731	310	481
17	365	254	318	275	269	273	524	352	478	859	731	804
18	275	254	266	399	268	287	515	327	353	880	828	869
19	264	259	261	452	275	407	329	314	324	874	828	864
20	291	258	274	276	268	273	318	305	315	831	683	730
21	292	249	277	271	264	269	517	311	403	693	487	661
22	249	217	228	345	256	265	533	309	408	902	456	846
23	243	216	235	450	316	415	310	299	307	899	797	875
24	322	239	296	316	257	267	303	298	301	808	760	785
25	329	272	306	260	254	258	445	296	320	800	711	758
26	272	199	232	257	254	256	526	326	465	752	720	738
27	254	197	243	452	254	396	326	293	304	728	689	710
28	387	250	351	444	264	304	294	288	292	690	549	576
29	380	252	273	264	260	263	288	285	287	722	565	659
30	270	248	258	262	259	261	535	285	463	847	534	716
31	---	---	---	453	259	362	523	298	363	---	---	---
MONTH	387	197	270	453	247	301	742	141	355	902	275	566

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PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	5.9	5.3	5.5	6.1	6.0	6.0
2	---	---	---	---	---	---	6.0	5.9	5.9	6.1	5.2	5.8
3	---	---	---	---	---	---	6.0	5.9	6.0	5.9	5.2	5.4
4	---	---	---	---	---	---	6.0	5.9	5.9	5.8	5.8	5.8
5	---	---	---	---	---	---	5.9	5.2	5.5	5.8	5.7	5.7
6	---	---	---	---	---	---	5.9	5.3	5.5	5.7	5.6	5.6
7	---	---	---	---	---	---	5.9	5.8	5.8	5.6	5.0	5.2
8	---	---	---	---	---	---	5.8	5.8	5.8	5.2	5.0	5.0
9	---	---	---	---	---	---	5.8	5.1	5.2	5.4	5.2	5.4
10	---	---	---	---	---	---	5.8	5.1	5.7	5.5	5.4	5.5
11	---	---	---	---	---	---	5.8	5.8	5.8	5.5	5.1	5.2
12	---	---	---	---	---	---	5.8	5.2	5.5	5.3	5.0	5.2
13	---	---	---	---	---	---	6.1	5.4	5.8	5.4	5.3	5.3
14	---	---	---	---	---	---	6.1	6.0	6.0	5.5	5.4	5.5
15	---	---	---	---	---	---	6.0	5.3	5.9	5.5	5.0	5.3
16	---	---	---	---	---	---	5.9	5.3	5.5	5.4	5.0	5.2
17	---	---	---	---	---	---	5.9	5.8	5.9	5.5	5.4	5.5
18	---	---	---	---	---	---	5.8	5.7	5.8	5.6	5.5	5.6
19	---	---	---	---	---	---	5.7	5.0	5.2	5.6	5.5	5.6
20	---	---	---	---	---	---	5.4	5.0	5.3	5.5	5.4	5.5
21	---	---	---	---	---	---	5.5	5.4	5.5	5.4	5.4	5.4
22	---	---	---	---	---	---	5.5	5.2	5.4	5.4	5.4	5.4
23	---	---	---	---	---	---	5.2	5.0	5.1	5.4	5.3	5.4
24	---	---	---	---	---	---	5.3	5.1	5.2	5.4	5.3	5.4
25	---	---	---	---	---	---	5.4	5.3	5.4	5.5	5.1	5.3
26	---	---	---	---	---	---	5.4	5.0	5.2	6.2	5.4	5.8
27	---	---	---	---	---	---	5.2	5.0	5.1	6.2	6.1	6.1
28	---	---	---	---	---	---	5.3	5.2	5.2	6.2	6.0	6.1
29	---	---	---	---	---	---	5.5	5.2	5.3	6.2	5.1	5.4
30	---	---	---	---	---	---	6.1	5.5	5.8	6.3	5.5	6.2
31	---	---	---	---	---	---	---	---	---	6.3	6.2	6.2
MONTH	---	---	---	---	---	---	6.1	5.0	5.6	6.3	5.0	5.5
	JUNE			JULY			AUGUST			SEPTEMBER		
1	6.2	5.2	5.9	6.6	6.5	6.6	4.2	4.1	4.1	5.1	4.8	5.0
2	6.1	5.2	5.6	6.5	4.9	5.1	4.4	4.2	4.3	5.2	5.1	5.2
3	6.2	6.1	6.1	6.7	5.5	6.5	4.5	4.3	4.4	5.3	3.9	4.9
4	6.2	6.1	6.2	6.7	6.6	6.6	4.7	4.4	4.6	4.4	3.9	4.1
5	6.1	5.2	5.6	6.6	6.2	6.6	4.4	4.0	4.1	4.8	4.4	4.6
6	5.9	5.2	5.5	6.2	5.7	5.8	4.2	4.0	4.1	4.9	4.7	4.8
7	6.0	5.9	6.0	6.4	5.9	6.3	4.2	4.1	4.1	4.7	3.5	4.4
8	6.1	6.0	6.0	6.5	6.4	6.4	4.5	4.2	4.3	4.7	3.4	3.7
9	6.2	5.4	5.6	6.5	6.4	6.5	4.4	3.8	4.0	5.0	4.7	4.9
10	5.8	5.3	5.7	6.5	6.2	6.3	3.9	3.8	3.8	5.0	4.9	5.0
11	5.9	5.8	5.8	6.2	5.8	6.0	3.9	3.8	3.8	5.0	4.8	4.9
12	6.0	5.7	5.9	5.9	5.9	5.9	4.0	3.9	3.9	4.9	3.5	3.9
13	5.7	5.5	5.5	6.3	5.9	6.1	6.0	3.9	4.3	4.7	3.6	4.3
14	5.9	5.5	5.7	6.3	4.0	5.9	6.1	3.8	4.4	4.8	4.7	4.7
15	6.3	5.9	6.1	6.1	3.9	4.6	4.8	4.7	4.7	4.9	3.7	4.4
16	6.3	4.9	5.7	6.2	6.1	6.1	5.1	4.8	4.9	4.7	3.8	4.2
17	6.3	5.2	5.7	6.1	6.1	6.1	5.2	3.5	3.8	4.0	3.4	3.6
18	6.3	6.1	6.2	6.1	4.0	5.9	5.0	3.7	4.7	3.9	3.5	3.8
19	6.1	6.0	6.1	5.5	3.8	4.2	5.0	4.9	5.0	3.8	3.7	3.7
20	6.1	4.8	5.3	5.8	5.5	5.7	5.0	4.9	5.0	3.9	3.7	3.9
21	5.9	4.9	5.4	5.8	5.7	5.7	5.0	3.6	4.3	4.0	3.7	3.8
22	6.0	5.9	5.9	5.7	5.4	5.7	4.6	3.6	4.1	4.1	3.6	3.7
23	6.0	5.9	6.0	5.4	4.2	4.4	4.9	4.6	4.8	3.8	3.6	3.6
24	6.0	5.8	5.9	5.0	4.3	4.8	5.0	4.9	4.9	3.8	3.7	3.8
25	6.5	5.8	6.2	5.1	5.0	5.1	5.0	3.8	4.8	3.9	3.6	3.6
26	7.0	6.5	6.8	5.2	5.1	5.2	4.4	3.6	3.8	3.9	3.6	3.9
27	7.0	6.3	6.5	5.2	4.1	4.6	4.9	4.4	4.7	3.9	3.9	3.9
28	6.4	4.9	5.2	4.4	4.0	4.2	5.2	4.9	5.0	4.3	3.9	4.2
29	6.3	5.1	6.1	4.7	4.4	4.6	5.3	5.2	5.2	4.3	3.6	3.8
30	6.6	6.2	6.4	4.9	4.7	4.8	5.3	3.8	4.1	4.3	3.8	4.1
31	---	---	---	5.1	4.2	4.7	4.8	3.8	4.4	---	---	---
MONTH	7.0	4.8	5.9	6.7	3.8	5.6	6.1	3.5	4.4	5.3	3.4	4.2

SWATARA CREEK BASIN

403542076263201 ROWE DRAINAGE TUNNEL, SITE E2-244, NR JOLIETT, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
2	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
3	---	---	---	---	---	---	12.0	12.0	12.0	12.0	12.0	12.0
4	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
5	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
6	---	---	---	---	---	---	12.0	12.0	12.0	12.0	12.0	12.0
7	---	---	---	---	---	---	12.0	12.0	12.0	12.0	12.0	12.0
8	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
9	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
10	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
11	---	---	---	---	---	---	12.0	11.5	12.0	12.5	12.0	12.0
12	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
13	---	---	---	---	---	---	12.0	12.0	12.0	12.0	12.0	12.0
14	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
15	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
16	---	---	---	---	---	---	12.0	12.0	12.0	12.0	12.0	12.0
17	---	---	---	---	---	---	12.0	12.0	12.0	12.0	12.0	12.0
18	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
19	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
20	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
21	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
22	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
23	---	---	---	---	---	---	12.0	12.0	12.0	12.0	12.0	12.0
24	---	---	---	---	---	---	12.0	11.5	12.0	12.0	12.0	12.0
25	---	---	---	---	---	---	12.0	11.5	12.0	12.0	12.0	12.0
26	---	---	---	---	---	---	12.5	12.0	12.0	12.5	12.0	12.0
27	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
28	---	---	---	---	---	---	12.0	12.0	12.0	12.5	12.0	12.0
29	---	---	---	---	---	---	12.5	12.0	12.0	12.5	12.0	12.0
30	---	---	---	---	---	---	12.5	12.0	12.0	12.5	12.0	12.0
31	---	---	---	---	---	---	---	---	---	12.5	12.0	12.0
MONTH	---	---	---	---	---	---	12.5	11.5	12.0	12.5	12.0	12.0
	JUNE			JULY			AUGUST			SEPTEMBER		
1	12.5	12.0	12.0	12.0	12.0	12.0	12.5	12.0	12.5	12.5	12.0	12.0
2	12.5	12.0	12.0	12.5	12.0	12.5	12.5	12.0	12.0	12.5	12.0	12.0
3	12.0	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.0
4	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.0	13.0	12.0	12.5
5	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.5	13.0	12.0	12.0
6	12.5	12.0	12.0	12.5	12.0	12.5	12.5	12.0	12.0	13.0	12.0	12.0
7	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.0	14.0	12.0	12.5
8	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.5
9	12.5	12.0	12.5	12.5	12.0	12.0	13.0	12.0	12.5	12.5	12.0	12.0
10	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.0
11	12.5	12.0	12.0	12.5	12.0	12.5	12.5	12.0	12.0	12.5	12.0	12.0
12	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.5
13	12.5	12.0	12.5	12.5	12.0	12.0	12.5	12.0	12.5	12.5	12.0	12.0
14	12.5	12.0	12.0	12.5	12.0	12.0	13.0	12.0	12.5	12.0	12.0	12.0
15	12.5	12.0	12.0	12.5	12.0	12.5	12.5	12.0	12.0	12.5	12.0	12.0
16	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.0	14.0	12.0	13.0
17	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.5	13.5	12.0	12.5
18	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.0
19	12.5	12.0	12.0	12.5	12.0	12.5	12.5	12.0	12.0	12.0	11.5	12.0
20	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.0	12.0	11.5	12.0
21	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.5
22	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.5	12.0	11.5	11.5
23	12.5	12.0	12.0	12.5	12.0	12.5	12.5	12.0	12.0	12.0	11.5	11.5
24	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.0	12.5	11.5	12.0
25	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.0	12.5	11.5	12.5
26	12.0	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.5	12.5	11.5	12.0
27	12.5	12.0	12.0	12.5	12.0	12.5	12.5	12.0	12.0	12.0	11.5	12.0
28	12.5	12.0	12.5	12.5	12.0	12.0	12.5	12.0	12.0	12.0	12.0	12.0
29	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.0	13.0	12.0	12.5
30	12.5	12.0	12.0	12.5	12.0	12.0	12.5	12.0	12.5	14.5	12.0	13.0
31	---	---	---	12.5	12.0	12.5	12.5	12.0	12.0	---	---	---
MONTH	12.5	12.0	12.1	12.5	12.0	12.1	13.0	12.0	12.1	14.5	11.5	12.2