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VOGTLE  
ELECTRIC GENERATING PLANT  
UNIT 1 AND UNIT 2

GROUND WATER SUPPLEMENT

MARCH 1985

**Vogle  
Electric  
Generating Plant  
Unit 1 and Unit 2**

**Ground Water  
Supplement**

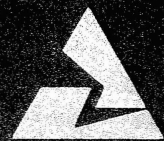
**March 1985**



**Vogtle  
Electric Generating Plant  
Unit 1 and Unit 2**

**Ground Water  
Supplement**

**March 1985**



**Georgia Power**  
*the southern electric system*

# GROUND WATER SUPPLEMENT

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## 1.0 INTRODUCTION

The Nuclear Regulatory Commission, as part of its Operating Permit review, has requested additional data on ground water conditions at the Vogtle Electric Generating Plant (VEGP). This 'Ground Water Supplement' provides the information requested in the Draft Site Evaluation Report (DSER, Dec. 4, 1984) Section 2.4.12.5 and in the letters (E.G. Adensam to D.O. Foster) dated January 22 and February 19, 1985. Additional information is also provided that is thought to be of assistance. The data is grouped under three subjects: ground-water levels; permeability and porosity; and status of drill holes. The information will be reviewed and summarized for inclusion in a forthcoming amendment to the Final Safety Analysis Report.





## 2.0 GROUND-WATER LEVELS

The NRC has requested additional information concerned with the level of the water table in order to assess the design basis ground-water level.

In response, the following are submitted:

- Tabulated water-level measurements taken at all observation wells of the VEGP site, 1971 through January 1985.
- Hydrographs of the water levels measured in observation wells.
- Summary tables of all observation wells constructed at the site that identify when the wells were constructed, what the current status is (i.e., active, inactive, grouted, etc.), and other pertinent data.
- Monthly precipitation records of the U.S. Weather Bureau stations at Augusta (Bush Field), Waynesboro, Blackville, SRP, and Hampton for the period 1952 through 1983, and the partial monthly records of precipitation taken at the VEGP site during the period 1972 through 1983.
- Two figures are provided to show 1) the locations of all observation wells constructed at the VEGP site, and 2) the wells that make up the current (1985) ground-water monitoring program.

The history of the ground-water monitoring program at the VEGP site is complex. This is due primarily to necessary interruptions caused by construction activities, as well as the fact that both water-table (unconfined) and confined aquifers are being monitored. A summary of that history is submitted to clarify the monitoring sequence, frequency, and periods of measurements.

#### 2.1 Construction of Observation Wells; 1971 to 1985

A ground-water monitoring program was established at the VEGP site with the first exploration work in 1971. That program has included an array of observation wells open to the water-table aquifer above the Blue Bluff marl, and an array of wells open to the confined aquifer immediately below the marl (in the unnamed sands of the Lisbon Formation).

Special observation wells installed include a nest of wells (identified as 42A through D) that provided wells open to the unconfined and confined aquifer immediately above and below the marl, respectively, and wells open to the marl itself. They provided data on the distribution of hydrostatic pressure across the marl. Other special wells include a series of short-lived construction "piezometers" that were installed in the backfill as it was placed around the Power Block complex. They were utilized to assure the water table in the backfill was deep enough to achieve effective compaction. All of the construction piezometers were destroyed upon completion of backfill except two, LT-1A and LT-7.

The initial array of observation wells installed during the exploration period 1971 through 1972 included several located in areas of plant construction. These were destroyed and sealed as required by the construction schedule, and when possible, replaced after the construction was completed.

The original observation wells reported in the PSAR (Table 2.4-3) included 16 open to the water table aquifer, 10 open to the confined aquifer, and two monitoring hydrostatic pressure in the marl. This array remained until July 1974 when site grading began, and excavation for the Power Block commenced. A majority of the wells were terminated at that time to make way for construction. All activity at the site was interrupted three months later, September 1974. Water-level monitoring did not resume until March 1979.

Resumption of construction, which began in 1976, required dewatering the Power Block excavation. The dewatering continued, uninterrupted, until March 1983. As construction progressed, more wells had to be terminated. Of the original observation wells open to the water-table aquifer, only 3 remain intact currently, and of the original wells open to the confined aquifer, 2 remain currently. Other wells have been installed periodically to replace those destroyed by construction.

800, 801, 802, 803A, 804, 805A, 806 B, 807A

Currently, February 1985, there are 13 wells open to the water table aquifer, including two within the backfill material adjacent to the Power

Block, and 10 wells monitoring the confined aquifer immediately below the Blue Bluff marl. Additional wells in the water-table aquifer are planned, including two within the backfill material, adjacent to structures of the Power Block, and two to the north and west of the power block in undisturbed Barnwell deposits. Locations of these planned wells are shown on Figure 2-2.

## 2.2 Water-level measurements

During the period September 1971 through March 1972, water levels in observation wells at VEGP were monitored by Law Engineering Company at least bi-weekly and, commonly, more frequently.

The Design Basis water level was determined with that data. Water level measurements since that initial period have generally been less frequent, except for a period December 11, 1980 through September 15, 1982 when daily measurements were made in two wells.

No water-level measurements were made between April 1972 and April 1973 when Georgia Power Company personnel commenced monitoring on a quarterly basis. Monitoring was again stopped July 1974 when site grading and excavation for the Power Block was commenced.

Monitoring was not resumed until June 1979, at which time quarterly measurements of all existing wells was again initiated. Daily readings

were made in observation wells 800 and 802 during the period December 11, 1980 through September 15, 1982 as part of the monitoring conducted for placement of the backfill around the Power Block structures. Temporary wells were installed in the backfill as it was being placed to monitor the saturated level and assure proper compaction.

Water levels in observation wells of the unconfined aquifer after June 1979 (including those in the backfill) were influenced by construction dewatering. The dewatering of the Power Block excavation was in effect from June 1976 through March 1983.

Several of the water-level measurements to be submitted are not reflections of the water table. Characteristically, this occurred where infiltration of silt and sand into the well casing had progressed until it filled the casing to above the screened interval. The water level measured in the well would then be considerably higher than the water table outside the well casing. Until the silt and sand was removed, the well cleaned, readings of water level are not a reflection of the water table. Such readings are listed in the tabulation, but are noted with an explanation of why they are not representative of the water table.

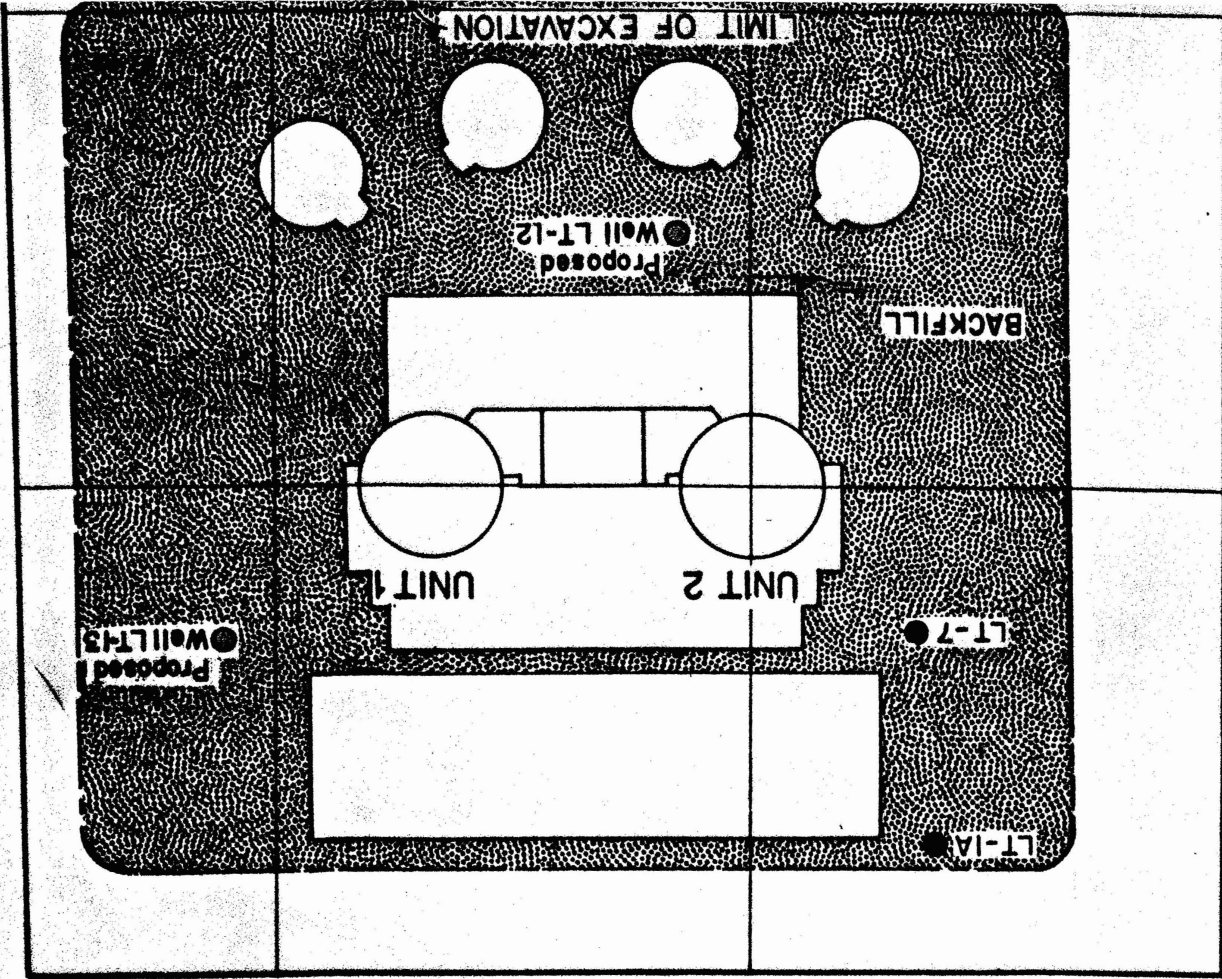
The water-level measurements taken in the temporary wells are not submitted as they are not a reflection of the water-table, but of moisture control maintained for proper backfill compaction.

### 2.3 Precipitation

Monthly precipitation data from 5 stations within the vicinity of the Vogtle Plant Site is summarized in Tables 2-5 through 2-9 for the 32-yr period of 1952-1983. Available data at the plant site (1972-1983) is shown in Table 2-10. Plant site and the stations are shown in Figure 2-3.

Annual precipitation totals are plotted in Figure 2-4 for the concurrent period, 1952-1983, for five stations. Plots of the cumulative annual totals appear in Figure 2-5 for each station.

Vogtle Plant site data, shown in Table 2-10 is inadequate to characterize the annual and monthly precipitation for the site: Rather, a regional average based on the stations in the vicinity would be an adequate index. As apparent in Figure 2-5, the five nearby stations exhibit similar characteristics and trends.

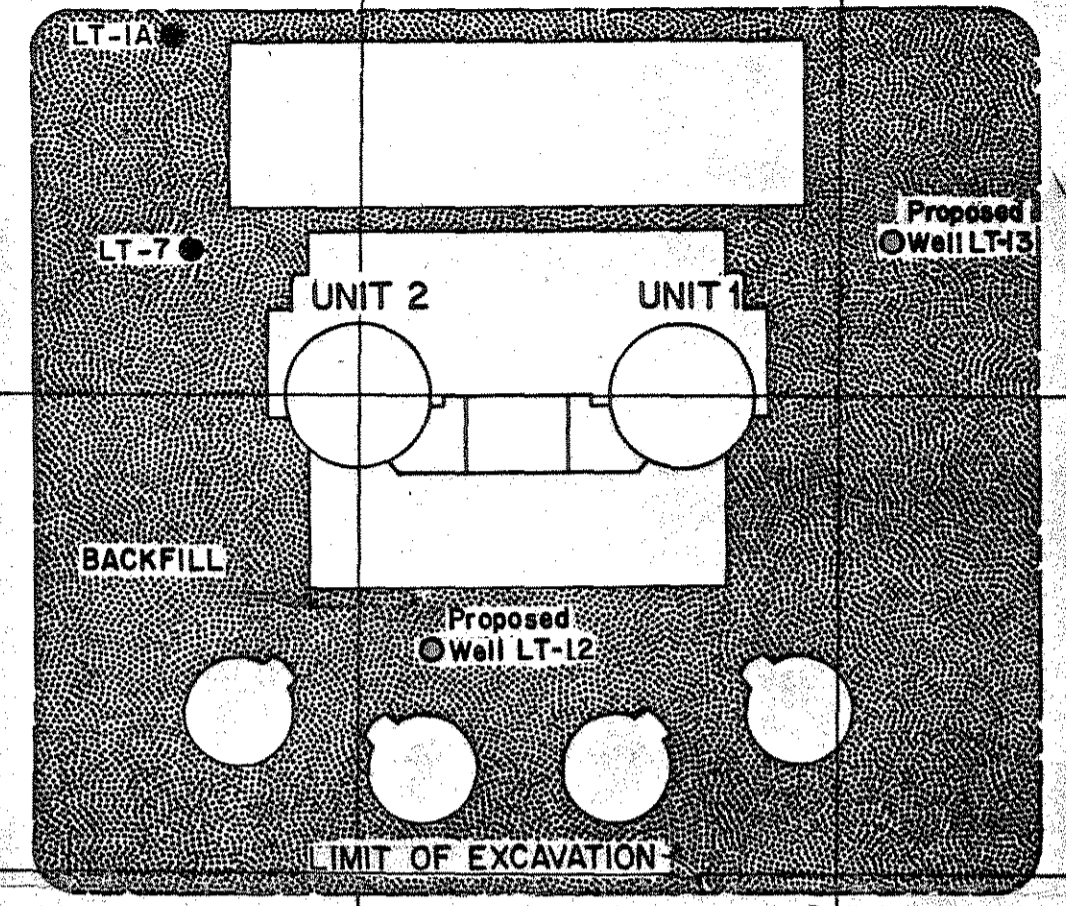
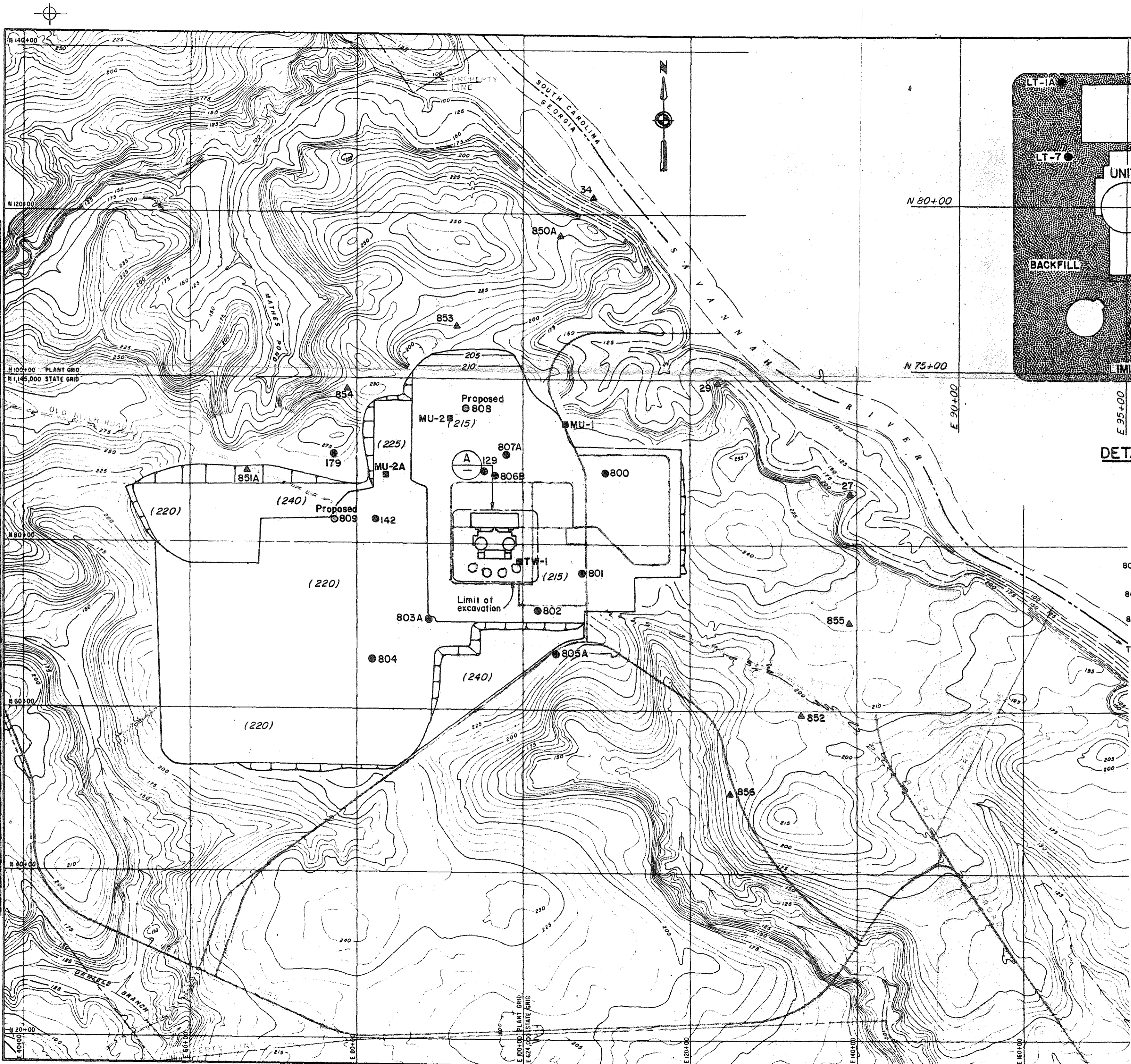


N 75+00

N 80+00



JOB NO. 9510	DATE 02/19/85	DESIGNED BY PSAR	PROJECT VOGTLE
DATE 02/19/85	DATE 02/19/85	DRAWN BY RRG	CHIEF GEOL. C. MCCLURE
DATE 02/19/85	DATE 02/19/85	CHECKED BY RRG	CHIEF CIVIL. C. MCCLURE
DATE 02/19/85	DATE 02/19/85	APPROVED BY RRG	CHIEF MECH. C. MCCLURE
DATE 02/19/85	DATE 02/19/85	APPROVED BY RRG	CHIEF ELEC. C. MCCLURE
DATE 02/19/85	DATE 02/19/85	APPROVED BY RRG	CHIEF INSTR. C. MCCLURE
DATE 02/19/85	DATE 02/19/85	APPROVED BY RRG	CHIEF CHEM. C. MCCLURE
DATE 02/19/85	DATE 02/19/85	APPROVED BY RRG	CHIEF SAFETY C. MCCLURE
DATE 02/19/85	DATE 02/19/85	APPROVED BY RRG	CHIEF ENV. C. MCCLURE
DATE 02/19/85	DATE 02/19/85	APPROVED BY RRG	CHIEF PLANT C. MCCLURE
DATE 02/19/85	DATE 02/19/85	APPROVED BY RRG	CHIEF SUPV. C. MCCLURE
DATE 02/19/85	DATE 02/19/85	APPROVED BY RRG	CHIEF APPR. C. MCCLURE



DETAIL  $\text{\textcircled{A}}$  PLANT SITE

100 0 100 200  
SCALE IN FEET

**EXPLANATION**

- 808 ● Proposed additional observation well (Location approximate)
- 801 ● Unconfined aquifer observation well
- 854 ▲ Confined aquifer observation well (TERTIARY)
- TW-1 ■ Confined aquifer well (CRETACEOUS)

**NOTE:**

Site grading generalized from DWG. NO. CX 2D46V003. Within graded area, approximate elevations shown in parentheses (215).

**REFERENCE:**

Hancock Landing Project topographic map prepared by Clyde N. Eldridge Aerial Surveys, Feb 25/71

400 0 400 800 1200  
SCALE IN FEET

Contour intervals 5 ft. and 25 ft.

<b>BECHTEL</b> LOS ANGELES		
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT		
MONITORING PROGRAM FEBRUARY 1985		
SCALE:	DRAWING NO.	REV.
JOB NO. 9510	FIGURE 2-2	



TABLE 2-1

OBSERVATION WELLS IN UNCONFINED AQUIFER

Well No.	HISTORY		Coordinates		Ground Surface Elev. (1) (ft)	Top of PVC Elev. (2) (ft)	Depth Top of Marl (3) (ft)	Screen Depth (3) (ft)
	Installed (YR)	Current Status	N	E				
129	1971	Active	8856	9576	215.9	215.3	77	92 - 97
142	1971	Active	8283	8262	231.2	224.5	92	85 - 95
179	1971	Active	9059	7779	274.8	275.9	130	111 - 131
800	1979	Active	8850	11011	213.7	215.3	83	69 - 89
801	1979	Active	7656	10733	212.8	215.8	82	62.5- 82.5
802	1979	Active	7201	10199	215.8	217.7	91	69 - 89
803A	1979	Active	7085	8898	218.3	220.3	82	57 - 77
804	1979	Active	6597	8227	224.1	226.1	87	60 - 80
805A	1979	Active	6672	10403	232.7	236.7	124	95 - 115
806B	1980	Active	8821	9726	214.8	215.8	77 <sup>(4)</sup>	55 - 65
807A	1980	Active	9047	9835	213.6	218.0	77 <sup>(4)</sup>	65 - 75
LT-1A <sup>(5)</sup>	1979	Active	8388	9300	(6)	206.9	69 <sup>(7)</sup>	65.4- 75.4 <sup>(8)</sup>
LT-7 <sup>(5)</sup>	1979	Active	8151	9323	(6)	200.4	63 <sup>(7)</sup>	58.2- 68.2 <sup>(8)</sup>
124	1971	Inactive, 1979 (buried)	6896	9527	260.2	259.9	128	160 - 170
138	1971	Grouted, 1985	8000	8500	225.2	225.1	87	5 - 82
140	1971	Grouted, 1985	7846	8702	222.4	223.5	89	81 - 96
141	1971	Grouted, 1985	7860	8293	230.4	223.6	97	90 - 100
143	1971	Grouted, 1980	8283	8738	224.5	225.0	81	78.5- 88.5
145G	1971	Inactive, 1974 (buried)	7792	7063	218.7	219.7	82	72 - 82
176	1971	Inactive, 1974 (buried)	7117	11423	196.4	196.9	77	65 - 75

TABLE 2-1 (continued)

OBSERVATION WELLS IN UNCONFINED AQUIFER

Well No.	HISTORY		Coordinates		Ground Surface Elev. (1) (ft)	Top of PVC Elev. (2) (ft)	Depth Top of Marl (3) (ft)	Screen Depth (3) (ft)
	Installed (YR)	Current Status	N	E				
177	1971	Grouted, 1980	8560	10865	213.0	213.0	79	60 - 80
178	1971	Grouted, 1978	9958	8994	240.4	240.5	89	71 - 91
243	1972	Grouted, 1985	9154	8618	213.0	225.2	71	60 - 80
244	1972	Inactive, 1979 (buried)	8835	8859	212.6	213.7	72	51 - 71
245	1972	Grouted, 1978	8501	9917	207.6	209.0	71.5	52 - 92
247	1972	Inactive, 1972 (buried)	5750	5424	211.3	--	82	70 - 80
248	1972	Inactive, 1972 (buried)	7469	5111	166.8	--	70.3	60 - 70
249	1972	Inactive, 1979 (buried)	8826	10154	193.0	194.0	57.9	47 - 57

Notes

- (1) Elevations shown were determined at time of drilling.
- (2) Elevations shown are current or latest determination made prior to well abandonment.
- (3) Unless otherwise indicated, depths shown were measured from ground surface at time of drilling.
- (4) Approximate depth based on log of well 129.
- (5) Observation wells located in backfill.
- (6) Ground surface continually changes as backfill is placed.
- (7) Additions to riser casing as backfill is placed have been added to approximate depth from ground surface at time of drilling based on top of marl contour map, FSAR Figure 2.5.1-30.
- (8) Additions to riser casing as backfill is placed have been added to depths measured from ground surface at time of drilling.

TABLE 2-2

OBSERVATION WELLS IN CONFINED AQUIFER

Well No.	HISTORY		Coordinates		Ground Surface Elev. (1) (ft)	Top of PVC Elev. (2) (ft)	Depth Bot. of Marl (3) (ft)	Screen Depth (3) (ft)
	Installed (YR)	Current Status	N	E				
27	1971	Active	8622	13931	210.0	209.0	148	180 - 190
29	1971	Active	9975	12392	193.0	193.4	126	200 - 210
850A	1984	Active	11723	10494	225.9	227.8	135	169 - 179
851A	1984	Active	8868	7066	262.7	264.3	195	269 - 279
852	1984	Active	5993	13380	200.7	202.1	153.5	199 - 209
853	1984	Active	11020	9204	227.6	229.1	145	195 - 205
854	1984	Active	9899	7917	236.8	238.3	153	197 - 207
855	1984	Active	7159	13951	218.0	219.4	173	219 - 229
856	1984	Active	4927	12558	186.7	188.1	155	176 - 186
24	1971	Grouted	7850	9092	216.0	216.4	145	210 - 220
26	1971	Grouted, 1984	5963	15197	203.0	203.8	158	190 - 200
31	1971	Grouted, 1984	8764	11237	211.0	216.8	151	200 - 210
32	1971	Grouted, 1984	9784	9572	214.0	217.4	139	200 - 210
33	1971	Grouted, 1984	11834	10864	238.0	238.6	157	210 - 220
34	1971	Inactive(capped)	12180	10846	86.0	90.5	(4)	90 - 100
101A	1971	Grouted, 1974	7950	9515	210.6	211.7	138	190 - 200
121	1971	Grouted, 1985	10467	12195	88.8	--	(4)	78 - 88
135	1971	Grouted	8992	8742	200.5	201.3	124.8	160 - 170
144	1971	Grouted	10403	12124	103.2	103.2	38	38.5- 48.5
147	1971	Grouted, 1978	7975	8471	226.2	227.4	152	280 - 300

(0562g)

TABLE 2-2 (continued)

OBSERVATION WELLS IN CONFINED AQUIFER

Well No.	HISTORY		Coordinates		Ground Surface Elev. (1)	Top of PVC Elev. (2)	Depth Bot. of Marl (3)	Screen Depth (3)
	Installed (YR)	Current Status	N	E	(ft)	(ft)	(ft)	(ft)
175	1971	Grouted, 1985	8386	7363	233.1	--	164	155 - 165
181	1971	Inactive(buried)	8744	6833	258.3	--	194.5	190 - 200
246	1972	Grouted, 1984	10532	6553	210.4	213.5	179.7	220 - 230

(1)

Notes

- (1) Elevations shown were determined at time of drilling.
- (2) Elevations shown are current or latest determination made prior to well abandonment.
- (3) Unless otherwise indicated, depths shown were measured from ground surface at time of drilling.
- (4) Well located in channel of Savannah River, marl not present.

(1) Revised 4/24/85

TABLE 2-3

NEST OF OBSERVATION WELLS 42A, B, C, D, AND E

Well No.	HISTORY		Coordinates		Ground Surface Elev. (1) (ft)	Top of PVC Elev. (2) (ft)	Marl Interval (3) (ft)	Screen Depth (3) (ft)
	Installed (YR)	Current Status	N	E				
42A	1971	Grouted, 1974	8380	9535	210.6	213.0	72 - 137	140 - 150
42B	1971	Grouted, 1974	8386	9544	210.4	--	72 - 137	120 - 130
42C	1971	Grouted, 1974	8398	9563	210.0	--	72 - 137	80 - 90
42D	1971	Grouted, 1974	8403	9571	209.7	212.7	72 - 137	60 - 70
42E	1971	Grouted, 1974	8408	9580	209.6	--	72 - 137	45 - 55

NOTES

- (1) Unless otherwise indicated, elevations shown were determined at time of drilling.
- (2) Elevations shown are current or latest determination made prior to well abandonment.
- (3) Unless otherwise indicated, depths shown were measured from ground surface at time of drilling.

TABLE 2-4

WATER LEVEL MEASUREMENTS FOR OBSERVATION WELLS

Water Levels for well 24

Date	Elevation	NOTES
-----	-----	-----
06-MAY-1971	121.80	
26-MAY-1971	122.70	
15-JUN-1971	116.30	
17-JUN-1971	117.20	
16-JUN-1971	118.30	
18-JUN-1971	117.20	
22-JUN-1971	117.60	
23-JUN-1971	119.30	
01-JUL-1971	116.20	
14-JUL-1971	117.20	
21-JUL-1971	117.00	
28-JUL-1971	117.30	
04-AUG-1971	117.00	
11-AUG-1971	117.50	
18-AUG-1971	118.20	
25-AUG-1971	118.20	
01-SEP-1971	117.80	
08-SEP-1971	117.50	
15-SEP-1971	117.30	
23-SEP-1971	117.30	
06-OCT-1971	117.60	
23-OCT-1971	117.70	
02-NOV-1971	117.20	
10-NOV-1971	117.10	
17-NOV-1971	116.80	
23-NOV-1971	117.00	
01-DEC-1971	117.30	
07-DEC-1971	117.40	
14-DEC-1971	119.00	
23-DEC-1971	119.50	
29-DEC-1971	119.00	
05-JAN-1972	118.00	
12-JAN-1972	118.20	
19-JAN-1972	119.30	
26-JAN-1972	120.50	
03-FEB-1972	120.30	
09-FEB-1972	120.50	
23-FEB-1972	120.30	
02-MAR-1972	119.60	
09-MAR-1972	119.70	
16-MAR-1972	119.10	
21-MAR-1972	119.90	
18-APR-1972	119.70	
01-MAY-1973	122.70	
30-MAY-1973	119.00	
10-JUL-1973	119.90	
13-OCT-1973	117.70	
03-NOV-1973	117.30	
09-DEC-1973	116.80	
07-JAN-1974	119.30	

water Levels for Well 24

(Continued)

Date	Elevation	NOTES
-----	-----	-----
10-FEB-1974	121.00	
23-MAR-1974	122.00	
17-APR-1974	117.70	



water Levels for well 26

Date	Elevation	NOTES
-----	-----	-----
20-APR-1971	135.90	(1)
29-APR-1971	106.50	
06-MAY-1971	106.70	
26-MAY-1971	104.20	
15-JUN-1971	102.10	
16-JUN-1971	102.20	
17-JUN-1971	101.90	
18-JUN-1971	102.60	
22-JUN-1971	102.20	
23-JUN-1971	101.90	
01-JUL-1971	102.60	
14-JUL-1971	101.90	
21-JUL-1971	102.50	
28-JUL-1971	101.60	
04-AUG-1971	101.90	
11-AUG-1971	101.10	
18-AUG-1971	103.90	
25-AUG-1971	102.70	
01-SEP-1971	102.80	
08-SEP-1971	102.10	
15-SEP-1971	102.10	
29-SEP-1971	102.20	
23-OCT-1971	103.10	
02-NOV-1971	102.60	
10-NOV-1971	102.40	
17-NOV-1971	102.50	
23-NOV-1971	102.70	
01-DEC-1971	104.10	
07-DEC-1971	104.60	
14-DEC-1971	106.40	
23-DEC-1971	106.70	
29-DEC-1971	103.90	
05-JAN-1972	103.50	
12-JAN-1972	103.30	
19-JAN-1972	107.30	
26-JAN-1972	107.60	
03-FEB-1972	107.60	
09-FEB-1972	107.60	
23-FEB-1972	107.20	
02-MAR-1972	105.40	
09-MAR-1972	103.40	
16-MAR-1972	104.20	
21-MAR-1972	103.90	
18-APR-1972	103.50	
26-APR-1973	109.20	
30-MAY-1973	103.90	
27-JUL-1973	104.90	
13-OCT-1973	104.20	
03-NOV-1973	104.00	
09-DEC-1973	103.30	

## Water Levels for well 26

(Continued)

Date	Elevation	NOTES
-----	-----	-----
07-JAN-1974	107.20	
07-JAN-1974	107.20	
10-FEB-1974	100.10	
23-MAR-1974	104.90	
17-APR-1974	105.50	
02-JUN-1979	106.20	
07-JUL-1979	102.40	
26-NOV-1979	103.50	
02-JAN-1980	102.90	
25-MAR-1980	103.80	
27-JUN-1980	102.70	
27-SEP-1980	101.40	
29-DEC-1980	101.40	
26-MAR-1981	101.90	
29-JUN-1981	100.40	
23-MAR-1982	101.60	
15-JUN-1982	100.40	
15-SEP-1982	100.80	
11-DEC-1982	100.30	
08-MAR-1983	105.90	
22-JUN-1983	101.30	
21-SEP-1983	99.90	
12-DEC-1983	100.30	
12-MAR-1984	106.90	
11-JUN-1984	101.40	

## NOTE:

- (1) Initial measurement after construction and testing, is not considered valid. Data not plotted on hydrograph.

Water Levels for Well 27

Date	Elevation	NOTES
-----	-----	-----
06-MAY-1971	92.50	
26-MAY-1971	93.80	
15-JUN-1971	81.50	
16-JUN-1971	81.40	
17-JUN-1971	81.20	
18-JUN-1971	79.50	
22-JUN-1971	81.10	
23-JUN-1971	80.80	
01-JUL-1971	82.50	
14-JUL-1971	83.50	
21-JUL-1971	79.30	
28-JUL-1971	84.00	
04-AUG-1971	82.10	
11-AUG-1971	82.90	82.9
18-AUG-1971	83.10	
25-AUG-1971	80.60	
01-SEP-1971	80.70	
08-SEP-1971	80.70	
15-SEP-1971	80.50	
30-SEP-1971	80.70	
06-OCT-1971	80.10	
23-OCT-1971	81.50	
02-NOV-1971	80.00	
10-NOV-1971	79.90	
17-NOV-1971	80.00	
23-NOV-1971	80.70	
01-DEC-1971	84.40	
07-DEC-1971	85.00	
14-DEC-1971	88.00	
23-DEC-1971	87.50	
29-DEC-1971	81.00	
05-JAN-1972	81.10	
12-JAN-1972	87.70	
19-JAN-1972	89.80	
26-JAN-1972	88.90	88.9
03-FEB-1972	88.60	88.6
09-FEB-1972	88.10	88.1
23-FEB-1972	87.00	
02-MAR-1972	82.60	
09-MAR-1972	80.70	83.7
15-MAR-1972	84.30	84.3
21-MAR-1972	82.40	
18-APR-1972	82.60	82.6
26-APR-1972	88.90	88.9
30-MAY-1972	88.70	86.7
10-JUL-1972	83.40	83.4
22-SEP-1972	81.50	
13-OCT-1972	82.30	82.3
03-NOV-1972	82.20	
09-DEC-1972	82.00	

Water Levels for well 27

(Continued)

Date	Elevation	NOTES
-----	-----	-----
07-JAN-1974	84.10	
10-FEB-1974	78.90	
23-MAR-1974	80.10	
17-APR-1974	87.50	
15-AUG-1974	84.40	
11-SEP-1974	82.50	
07-JUL-1979	81.61	
26-NOV-1979	82.20	
27-JUN-1980	82.60	
27-JUN-1980	82.60	
28-JUN-1980	82.60	
30-JUN-1980	82.60	
27-SEP-1980	82.30	
27-SEP-1980	82.30	
26-NOV-1980	82.19	
29-DEC-1980	81.10	
29-DEC-1980	81.10	
28-MAR-1981	82.60	
30-JUN-1981	80.50	
23-MAR-1982	81.80	
15-JUN-1982	80.00	80.0
15-SEP-1982	81.50	81.5
11-DEC-1982	74.90	
08-MAR-1983	90.00	
22-JUN-1983	83.60	
21-SEP-1983	75.20	
12-DEC-1983	75.40	
13-MAR-1984	91.20	
11-JUN-1984	80.79	80.8
11-JUN-1984	80.79	
18-SEP-1984	81.14	
18-SEP-1984	81.14	
18-DEC-1984	79.79	
18-DEC-1984	79.79	
04-FEB-1985	87.86	87.6

Water Levels for Well 29

Date	Elevation	NOTES
-----	-----	-----
29-APR-1971	103.30	103.3
05-MAY-1971	103.00	
26-MAY-1971	109.40	
15-JUN-1971	107.10	
16-JUN-1971	107.20	
17-JUN-1971	107.40	
18-JUN-1971	106.50	
22-JUN-1971	108.00	108.00
23-JUN-1971	91.50	
01-JUL-1971	100.80	
14-JUL-1971	102.80	
21-JUL-1971	103.30	
28-JUL-1971	102.50	
04-AUG-1971	101.50	
11-AUG-1971	101.50	
18-AUG-1971	101.90	
25-AUG-1971	102.00	
01-SEP-1971	102.10	
08-SEP-1971	102.00	
15-SEP-1971	101.70	
28-SEP-1971	102.80	
23-OCT-1971	99.00	
02-NOV-1971	98.30	98.3
10-NOV-1971	98.70	
17-NOV-1971	98.60	
23-NOV-1971	98.70	
01-DEC-1971	99.50	
07-DEC-1971	99.60	
14-DEC-1971	102.50	
23-DEC-1971	102.50	
29-DEC-1971	99.40	
05-JAN-1972	99.00	
12-JAN-1972	101.30	101.3
19-JAN-1972	103.50	
26-JAN-1972	103.60	
03-FEB-1972	103.70	
09-FEB-1972	103.50	103.6
13-FEB-1972	103.10	
02-MAR-1972	101.20	101.2
09-MAR-1972	101.20	
16-MAR-1972	101.70	
21-MAR-1972	101.50	
18-APR-1972	101.30	101.3
26-APR-1972	103.30	
30-MAY-1973	100.50	
27-JUL-1973	99.50	
13-OCT-1973	99.00	
03-NOV-1973	98.40	
09-DEC-1973	99.20	
07-JAN-1974	100.70	

## Water Levels for Well 29

(Continued)

Date	Elevation	NOTES
10-FEB-1974	95.20	
23-MAR-1974	99.90	
17-APR-1974	99.20	
15-AUG-1974	99.00	
11-SEP-1974	97.90	
26-NOV-1979	97.30	
11-JAN-1980	96.60	
25-MAR-1980	104.00	
27-JUN-1980	96.90	
29-DEC-1980	95.40	
28-MAR-1981	95.60	
29-JUN-1981	94.00	
23-MAR-1982	94.70	
15-JUN-1982	93.50	
15-SEP-1982	94.60	
11-DEC-1982	93.50	
06-MAR-1983	92.90	
22-JUN-1983	95.80	
15-OCT-1983	94.40	
12-DEC-1983	94.70	
12-MAR-1984	92.07	
11-JUN-1984	94.90	
18-SEP-1984	94.00	
13-DEC-1984	93.50	
04-FEB-1985	93.60	

Water Levels for Well 31

Date	Elevation	NOTES
-----	-----	-----
01-JUL-1971	101.40	
14-JUL-1971	105.80	
21-JUL-1971	107.10	
28-JUL-1971	107.30	
04-AUG-1971	107.10	
11-AUG-1971	107.60	
18-AUG-1971	107.90	
25-AUG-1971	105.60	
01-SEP-1971	108.40	
08-SEP-1971	107.60	
15-SEP-1971	107.60	
30-SEP-1971	107.40	
06-OCT-1971	107.10	
23-OCT-1971	106.60	
02-NOV-1971	106.30	
10-NOV-1971	105.80	
17-NOV-1971	105.80	
23-NOV-1971	105.90	
01-DEC-1971	106.30	
07-DEC-1971	106.20	
14-DEC-1971	109.50	
23-DEC-1971	109.60	
29-DEC-1971	108.30	
05-JAN-1972	105.80	
12-JAN-1972	107.30	
19-JAN-1972	110.70	
03-FEB-1972	111.70	
09-FEB-1972	111.30	
23-FEB-1972	110.50	
02-MAR-1972	108.40	
09-MAR-1972	108.30	
16-MAR-1972	108.40	
21-MAR-1972	109.10	
18-APR-1972	108.80	
26-APR-1973	112.10	
30-MAY-1973	120.70	
27-JUL-1973	108.60	
13-OCT-1973	108.10	
03-NOV-1973	107.70	
09-DEC-1973	107.30	
07-JAN-1974	110.10	
10-FEB-1974	104.50	
23-MAR-1974	108.80	
17-APR-1974	110.80	
15-AUG-1974	107.10	
11-SEP-1974	105.80	
03-JUN-1979	107.92	
07-JUL-1979	106.91	
07-JUL-1979	106.97	
26-NOV-1979	107.80	

## Water Levels for Well 31

(Continued)

Date	Elevation	NOTES
11-JAN-1980	106.56	
24-JAN-1980	108.06	
25-MAR-1980	111.34	
27-JUN-1980	107.10	
27-JUN-1980	107.10	
27-JUN-1980	107.10	
28-JUN-1980	107.10	
30-JUN-1980	107.10	
27-SEP-1980	105.10	
27-SEP-1980	105.10	
26-NOV-1980	107.89	
29-DEC-1980	105.20	
29-DEC-1980	105.20	
28-MAR-1981	105.40	
29-JUN-1981	103.90	
30-JUN-1981	103.90	
23-MAR-1982	104.60	
15-JUN-1982	103.50	
15-SEP-1982	103.12	
11-DEC-1982	103.50	
18-DEC-1982	103.50	
08-MAR-1983	103.60	
22-JUN-1983	104.70	
21-SEP-1983	159.60	(1)
12-DEC-1983	159.20	(1)
12-MAR-1984	162.80	(1)

## NOTE:

- (1) Data not valid. Data not plotted on hydrograph.  
Well damaged during construction of cooling towers.



Water Levels for Well 32

Date	Elevation	NOTES
-----	-----	-----
15-JUN-1971	104.40	
17-JUN-1971	107.60	
18-JUN-1971	107.40	
22-JUN-1971	107.40	
23-JUN-1971	107.60	
01-JUL-1971	106.90	
14-JUL-1971	103.90	
21-JUL-1971	104.40	
28-JUL-1971	106.60	
04-AUG-1971	104.40	
11-AUG-1971	106.30	
18-AUG-1971	107.20	
25-AUG-1971	108.40	
01-SEP-1971	107.40	
08-SEP-1971	107.20	
15-SEP-1971	107.20	
30-SEP-1971	107.00	
06-OCT-1971	106.20	
23-OCT-1971	106.10	
02-NOV-1971	105.90	
10-NOV-1971	105.40	
17-NOV-1971	105.60	
23-NOV-1971	105.70	
01-DEC-1971	106.20	
07-DEC-1971	106.40	
14-DEC-1971	107.60	
23-DEC-1971	108.60	
29-DEC-1971	108.70	
05-JAN-1972	107.70	
12-JAN-1972	107.20	
19-JAN-1972	108.20	
26-JAN-1972	109.60	
03-FEB-1972	110.60	
09-FEB-1972	110.70	
23-FEB-1972	110.40	
02-MAR-1972	108.30	
09-MAR-1972	108.30	
16-MAR-1972	108.30	
21-MAR-1972	109.40	
18-APR-1972	108.40	
26-APR-1973	112.50	
30-MAY-1973	108.70	
27-JUL-1973	109.70	
13-OCT-1973	108.40	
03-NOV-1973	105.00	
09-DEC-1973	104.10	
07-JAN-1974	107.40	
10-FEB-1974	101.60	
23-MAR-1974	102.40	
17-APR-1974	103.00	

## Water Levels for Well 32

(Continued)

Date	Elevation	NOTES
15-AUG-1974	106.90	
11-SEP-1974	106.90	
07-JUL-1979	107.00	
24-JAN-1980	106.40	
25-MAR-1980	109.70	
27-JUN-1980	107.10	
27-SEP-1980	103.80	
29-DEC-1980	104.10	
28-MAR-1981	104.40	
29-JUN-1981	103.30	
23-MAR-1982	105.00	
15-JUN-1982	102.30	
15-SEP-1982	102.10	
11-DEC-1982	102.30	
08-MAR-1983	107.00	
22-JUN-1983	103.00	
15-SEP-1983	101.70	
12-DEC-1983	102.40	
12-MAR-1984	107.50	
22-MAR-1984	107.50	

Water Levels for Well 42A

Date	Elevation	NOTES
15-JUN-1971	141.50	(1)
18-JUN-1971	203.80	
23-JUN-1971	141.00	
01-JUL-1971	200.80	
14-JUL-1971	188.80	
21-JUL-1971	179.10	
04-AUG-1971	113.50	
11-AUG-1971	109.00	
18-AUG-1971	104.70	
25-AUG-1971	102.90	
01-SEP-1971	102.00	
08-SEP-1971	103.20	
15-SEP-1971	101.80	
28-SEP-1971	102.50	
29-SEP-1971	81.50	
06-OCT-1971	93.30	
23-OCT-1971	93.30	
02-NOV-1971	97.20	
10-NOV-1971	96.20	
17-NOV-1971	98.00	
23-NOV-1971	99.70	
01-DEC-1971	100.90	
07-DEC-1971	101.00	
14-DEC-1971	101.20	
23-DEC-1971	100.70	
29-DEC-1971	102.50	
05-JAN-1972	99.50	
12-JAN-1972	98.80	
19-JAN-1972	101.10	
26-JAN-1972	99.00	
03-FEB-1972	100.40	
09-FEB-1972	99.70	
23-FEB-1972	101.70	
02-MAR-1972	100.70	
09-MAR-1972	100.70	
16-MAR-1972	100.70	
21-MAR-1972	101.50	
18-APR-1972	101.20	
26-APR-1973	108.40	
30-MAY-1973	108.50	
27-JUL-1973	110.50	
13-OCT-1973	108.10	
03-NOV-1973	107.80	
09-DEC-1973	107.30	
07-JAN-1974	108.00	
10-FEB-1974	104.60	
23-MAR-1974	105.80	
17-APR-1974	109.60	

NOTE:

- (1) These data not valid. The measurements represent water in the well used in construction and development, not aquifer water

Water Levels for Well 425

Date	Elevation	NOTES
15-JUN-1971	187.40	(1)
16-JUN-1971	177.20	
18-JUN-1971	174.90	
23-JUN-1971	175.40	
04-AUG-1971	123.00	
11-AUG-1971	120.70	
18-AUG-1971	120.40	
25-AUG-1971	120.80	
01-SEP-1971	120.30	
08-SEP-1971	120.40	
15-SEP-1971	120.70	
30-SEP-1971	120.10	
23-OCT-1971	120.20	
02-NOV-1971	119.40	
10-NOV-1971	119.60	
17-NOV-1971	117.80	
23-NOV-1971	118.30	
01-DEC-1971	118.40	
07-DEC-1971	116.50	
14-DEC-1971	118.30	
23-DEC-1971	119.20	
29-DEC-1971	118.90	
05-JAN-1972	118.20	
12-JAN-1972	118.40	
19-JAN-1972	119.30	
26-JAN-1972	119.10	
03-FEB-1972	120.10	
09-FEB-1972	120.80	
23-FEB-1972	121.90	
02-MAR-1972	122.60	
09-MAR-1972	122.80	
16-MAR-1972	125.90	
21-MAR-1972	124.10	
18-APR-1972	122.50	
27-JUL-1973	139.20	

NOTE:

- (1) These data not valid. The measurements represent water in the well used in construction and development, not formation pressure.

Water Levels for Well 42C

Date -----	Elevation -----	NOTES -----
15-JUN-1971	151.70	
16-JUN-1971	151.70	
18-JUN-1971	150.90	
23-JUN-1971	152.20	
01-JUL-1971	152.30	
14-JUL-1971	150.20	
21-JUL-1971	152.00	
28-JUL-1971	151.60	
04-AUG-1971	152.00	
11-AUG-1971	152.20	
18-AUG-1971	152.00	
25-AUG-1971	152.00	
01-SEP-1971	151.50	
08-SEP-1971	151.70	
15-SEP-1971	152.00	
30-SEP-1971	152.20	
23-OCT-1971	152.40	
02-NOV-1971	151.00	
10-NOV-1971	151.20	
17-NOV-1971	151.20	
23-NOV-1971	151.20	
01-DEC-1971	151.10	
07-DEC-1971	151.00	
14-DEC-1971	152.20	
23-DEC-1971	151.30	
29-DEC-1971	151.50	
05-JAN-1972	152.00	
12-JAN-1972	151.50	
19-JAN-1972	151.90	
26-JAN-1972	152.40	
03-FEB-1972	152.60	
09-FEB-1972	153.00	
23-FEB-1972	153.40	
02-MAR-1972	153.50	
09-MAR-1972	153.40	
16-MAR-1972	153.80	
21-MAR-1972	154.20	
18-APR-1972	153.70	
27-JUL-1973	160.30	

Water Levels for Well 42D

Date	Elevation	NOTES
-----	-----	-----
15-JUN-1971	157.90	
16-JUN-1971	159.40	
18-JUN-1971	159.60	
23-JUN-1971	157.40	
01-JUL-1971	157.00	
14-JUL-1971	157.70	
21-JUL-1971	157.70	
28-JUL-1971	157.40	
04-AUG-1971	157.30	
11-AUG-1971	157.00	
18-AUG-1971	156.90	
25-AUG-1971	156.80	
01-SEP-1971	156.40	
08-SEP-1971	156.80	
15-SEP-1971	157.20	
30-SEP-1971	157.40	
06-OCT-1971	157.30	
23-OCT-1971	157.60	
02-NOV-1971	156.60	
10-NOV-1971	156.70	
17-NOV-1971	156.70	
23-NOV-1971	156.70	
01-DEC-1971	156.70	
07-DEC-1971	156.70	
14-DEC-1971	156.70	
23-DEC-1971	154.20	
29-DEC-1971	156.20	
05-JAN-1972	156.50	
12-JAN-1972	156.40	
19-JAN-1972	156.70	
26-JAN-1972	156.40	
03-FEB-1972	156.80	
09-FEB-1972	156.90	
23-FEB-1972	156.90	
02-MAR-1972	157.30	
09-MAR-1972	156.90	
16-MAR-1972	156.90	
21-MAR-1972	158.70	
18-APR-1972	157.40	
26-APR-1973	160.00	
30-MAY-1973	160.70	
27-JUL-1973	161.20	
13-OCT-1973	161.10	
03-NOV-1973	160.80	
09-DEC-1973	160.30	
07-JAN-1974	158.30	
10-FEB-1974	157.30	
23-MAR-1974	157.70	
17-APR-1974	157.30	

Water Levels for Well 101A

Date	Elevation	NOTES
-----	-----	-----
13-OCT-1971	117.70	
24-OCT-1971	117.20	
02-NOV-1971	116.00	
10-NOV-1971	116.80	
17-NOV-1971	116.80	
23-NOV-1971	116.70	
01-DEC-1971	116.30	
07-DEC-1971	117.00	
14-DEC-1971	118.30	
23-DEC-1971	118.50	
29-DEC-1971	118.00	
05-JAN-1972	117.50	
12-JAN-1972	117.80	
19-JAN-1972	119.00	
26-JAN-1972	119.30	
03-FEB-1972	119.50	
09-FEB-1972	119.50	
23-FEB-1972	119.20	
02-MAR-1972	118.50	
09-MAR-1972	118.50	
16-MAR-1972	116.80	
21-MAR-1972	119.80	
18-APR-1972	118.50	
25-APR-1973	120.60	
30-MAY-1973	118.20	
10-JUL-1973	119.60	
27-JUL-1973	118.40	
22-SEP-1973	118.80	
13-OCT-1973	116.90	
03-NOV-1973	116.60	
09-DEC-1973	113.80	
07-JAN-1974	118.30	
10-FEB-1974	113.00	
23-MAR-1974	113.80	
17-APR-1974	112.90	

Water Levels for Well 124

Date	Elevation	NOTES
-----	-----	-----
09-SEP-1971	161.80	
01-OCT-1971	161.60	
05-OCT-1971	161.70	
07-OCT-1971	161.60	
12-OCT-1971	161.50	
24-OCT-1971	161.80	
02-NOV-1971	161.90	
10-NOV-1971	161.50	
17-NOV-1971	161.50	
23-NOV-1971	162.00	
01-DEC-1971	161.30	
07-DEC-1971	161.20	
14-DEC-1971	161.80	
23-DEC-1971	161.80	
29-DEC-1971	161.80	
05-JAN-1972	161.50	
12-JAN-1972	162.00	
19-JAN-1972	162.00	
26-JAN-1972	162.10	
03-FEB-1972	162.40	
09-FEB-1972	162.20	
23-FEB-1972	162.50	
02-MAR-1972	162.30	
09-MAR-1972	162.60	
16-MAR-1972	162.60	
21-MAR-1972	162.70	
18-APR-1972	162.70	
26-APR-1973	167.20	
30-MAY-1973	168.90	
10-JUL-1973	169.60	
27-JUL-1973	170.30	
22-SEP-1973	169.60	
13-OCT-1973	170.20	
03-NOV-1973	169.30	
09-DEC-1973	169.40	
07-JAN-1974	167.50	
10-FEB-1974	166.00	
23-MAR-1974	166.80	
17-APR-1974	166.50	
15-AUG-1974	162.60	
11-SEP-1974	169.20	



Water Levels for Well 129

Date	Elevation	NOTES
-----	-----	-----
30-SEP-1971	154.30	
01-OCT-1971	154.60	
05-OCT-1971	154.40	
07-OCT-1971	154.50	
13-OCT-1971	154.30	
24-OCT-1971	154.20	
02-NOV-1971	153.60	
10-NOV-1971	153.40	
17-NOV-1971	153.50	
23-NOV-1971	153.80	
01-DEC-1971	154.00	
07-DEC-1971	154.20	
14-DEC-1971	154.10	
23-DEC-1971	154.30	
29-DEC-1971	154.30	
05-JAN-1972	154.30	
12-JAN-1972	154.40	
19-JAN-1972	154.60	
26-JAN-1972	154.90	
03-FEB-1972	155.00	
09-FEB-1972	155.20	
23-FEB-1972	155.30	
02-MAR-1972	155.60	
09-MAR-1972	154.30	
16-MAR-1972	154.60	
21-MAR-1972	154.60	
18-APR-1972	156.60	
01-MAY-1973	157.10	
30-MAY-1973	162.40	
10-JUL-1973	162.60	
27-JUL-1973	158.30	
28-SEP-1973	162.00	
13-OCT-1973	162.30	
03-NOV-1973	162.00	
09-DEC-1973	161.40	
07-JAN-1974	159.90	
10-FEB-1974	158.20	
23-MAR-1974	159.30	
17-APR-1974	159.10	
15-AUG-1974	150.00	
11-SEP-1974	144.30	
02-JUN-1979	213.00	(1)
07-JUL-1979	211.70	(1)
26-NOV-1979	169.60	(1)
02-JAN-1980	204.90	(1)
11-FEB-1980	212.40	(1)
24-FEB-1980	203.90	(1)
01-FEB-1980	199.10	(1)
15-FEB-1980	191.80	(1)
25-MAR-1980	175.-0	(1)

## Water Levels for Well 129

(Continued)

Date	Elevation	NOTES
27-JUN-1980	156.00	
27-SEP-1980	147.70	
29-DEC-1980	143.90	
28-MAR-1981	142.60	
29-JUN-1981	141.60	
23-MAR-1982	140.80	
15-JUN-1982	140.80	
15-SEP-1982	141.00	
11-DEC-1982	140.60	
08-MAR-1983	140.60	
22-JUN-1983	147.80	
15-SEP-1983	151.00	
12-DEC-1983	152.80	
12-MAR-1984	154.10	
12-JUN-1984	157.30	
18-SEP-1984	157.70	
13-DEC-1984	157.20	
04-FEB-1985	157.20	

## NOTE:

- (1) Data not valid. Data not plotted on hydrograph. Well covered by grading. Found at 1 foot below grade as reported on March 5, 1979. Well found to be plugged and was flushed, but later found that flushing did not remove plug. Well was cleaned with air on July 13, 1984.

The low water level reported in 1974, Elevation 144, is the correct water level measured on September 11, 1974. However, this water level reflects drawdown of the unconfined aquifer as a result of dewatering the Power Block excavation. Therefore, this level should not be compared with other water level data to determine undisturbed, steady-state water level fluctuations of the unconfined aquifer.

In addition, the water level data for this well presented on Table 2.4.12-7 (Sheet 2 of 3) for all of 1979 and the first two quarters of 1980 are in error and should not be considered. The well was covered up during site grading and was not found until March 5, 1979. At this time, the well was found to be plugged and was washed in an effort to remove the obstruction. It was later found that the washing did not solve the problem. On July 13, 1984, the well was cleaned with air and is now considered operational.

Water Levels for Well 135

Date	Elevation	NOTES
-----	-----	-----
30-SEP-1971	118.00	
01-OCT-1971	112.50	
05-OCT-1971	105.10	
07-OCT-1971	105.40	
13-OCT-1971	105.00	
24-OCT-1971	105.20	
02-NOV-1971	104.10	
10-NOV-1971	103.50	
17-NOV-1971	104.20	
23-NOV-1971	104.90	
01-DEC-1971	105.30	
07-DEC-1971	105.50	
14-DEC-1971	107.10	
23-DEC-1971	107.70	
29-DEC-1971	106.70	
05-JAN-1972	105.70	
12-JAN-1972	105.90	
19-JAN-1972	108.00	
26-JAN-1972	109.10	
09-FEB-1972	109.00	
26-APR-1973	109.90	
30-MAY-1973	106.50	
27-JUL-1973	106.40	
13-OCT-1973	104.50	
03-NOV-1973	104.10	
09-DEC-1973	103.70	
07-JAN-1974	107.80	
10-FEB-1974	109.50	
23-MAR-1974	110.50	

Water Levels for Well 138

Date	Elevation	NOTES
07-JUL-1979	145.70	
26-NOV-1979	147.90	
24-JAN-1980	211.50	(1)
01-FEB-1980	210.20	
15-FEB-1980	208.10	
25-MAR-1980	146.00	
29-DEC-1980	155.00	
28-MAR-1981	156.20	

(1) Data not valid - Well found to have an obstruction at Elevation 157.6 that could not be removed. Well was grouted.

Water Levels for Well 140

Date	Elevation	NOTES
-----	-----	-----
01-OCT-1971	160.90	
05-OCT-1971	161.30	
07-OCT-1971	161.30	
24-OCT-1971	160.70	
02-NOV-1971	159.40	
10-NOV-1971	159.40	
17-NOV-1971	159.90	
23-NOV-1971	160.00	
01-DEC-1971	160.00	
07-DEC-1971	159.90	
14-DEC-1971	160.10	
23-DEC-1971	159.90	
29-DEC-1971	160.40	
05-JAN-1972	160.10	
12-JAN-1972	160.30	
19-JAN-1972	160.40	
26-JAN-1972	160.30	
03-FEB-1972	160.10	
09-FEB-1972	159.90	
23-FEB-1972	160.40	
02-MAR-1972	160.60	
09-MAR-1972	161.10	
16-MAR-1972	161.10	
21-MAR-1972	161.40	
18-APR-1972	161.10	
06-JUL-1972	159.40	
26-APR-1973	164.60	
30-MAY-1973	165.60	
27-JUL-1973	166.90	
13-OCT-1973	168.30	
03-NOV-1973	168.00	
09-DEC-1973	167.40	
07-JAN-1974	168.70	
10-FEB-1974	164.20	
23-MAR-1974	164.80	
17-APR-1974	162.30	

Water Levels for Well 141

Date	Elevation	NOTES
-----	-----	-----
01-OCT-1971	154.30	
05-OCT-1971	154.70	
07-OCT-1971	154.70	
12-OCT-1971	154.80	
13-OCT-1971	154.70	
24-OCT-1971	154.70	
02-NOV-1971	154.10	
10-NOV-1971	154.00	
17-NOV-1971	154.00	
23-NOV-1971	154.20	
01-DEC-1971	154.20	
07-DEC-1971	154.40	
14-DEC-1971	154.30	
23-DEC-1971	154.30	
29-DEC-1971	154.40	
05-JAN-1972	154.30	
12-JAN-1972	154.60	
19-JAN-1972	154.80	
26-JAN-1972	154.60	
03-FEB-1972	154.40	
09-FEB-1972	154.30	
23-FEB-1972	155.10	
02-MAR-1972	155.10	
09-MAR-1972	155.20	
16-MAR-1972	155.40	
21-MAR-1972	155.50	
18-APR-1972	155.40	

## Water Levels for Well 142

(Continued)

Date	Elevation	NOTES
-----	-----	-----
11-DEC-1982	146.10	
03-MAR-1983	146.30	
22-JUN-1983	152.30	
15-SEP-1983	153.30	
12-DEC-1983	154.40	
12-MAR-1984	155.10	
12-JUN-1984	166.10	(3)
18-SEP-1984	156.50	
13-DEC-1984	155.90	
04-FEB-1985	155.70	

## NOTES:

- (1) Measurement considered not valid. Data not plotted on hydrograph. This level is 10 feet lower than lowest measurement recorded during dewatering.
- (2) Values not valid. Data not plotted on hydrograph. Data sheets show well is stopped up.
- (3) Value not valid. Data not plotted on hydrograph. Data sheets show well plugged and washed out. This measurement was made just after well flushing and is wash water.

The low water level recorded on Table 2.4.12-7 for 1973, Elevation 136, measured on May 1, 1973, is considered in error. This level is the lowest level ever recorded for this well and is far out of line with the other measurements. The level is 10 feet lower than the lowest measurement recorded for this well during dewatering of the Power Block excavation.

The water levels reported for the second and third quarter of 1979 are also not valid. These elevations are 217.6 ft measured on July 7, 1979 and 222.0 ft measured on November 26, 1979. The field data sheet for both of these dates state that the "well is full of sediment".

The well was cleaned by washing in June of 1984 and is now considered operational.

Water Levels for well 143

Date	Elevation	NOTES
-----	-----	-----
01-OCT-1971	154.00	
05-OCT-1971	154.10	
07-OCT-1971	154.90	
13-OCT-1971	154.90	
24-OCT-1971	154.20	
02-NOV-1971	153.00	
10-NOV-1971	153.20	
17-NOV-1971	153.50	
23-NOV-1971	153.60	
01-DEC-1971	153.60	
07-DEC-1971	153.60	
14-DEC-1971	153.70	
23-DEC-1971	153.50	
29-DEC-1971	153.70	
05-JAN-1972	154.00	
12-JAN-1972	154.20	
19-JAN-1972	154.30	
26-JAN-1972	154.40	
03-FEB-1972	154.60	
09-FEB-1972	154.50	
23-FEB-1972	155.20	
02-MAR-1972	155.00	
09-MAR-1972	155.00	
16-MAR-1972	153.00	
21-MAR-1972	154.70	
18-APR-1972	154.00	
26-APR-1973	161.60	
30-MAY-1973	162.00	
27-JUL-1973	162.90	
13-OCT-1973	162.30	
03-NOV-1973	162.00	
09-DEC-1973	161.30	
07-JAN-1974	159.50	
10-FEB-1974	158.60	
23-MAR-1974	160.00	
17-APR-1974	158.30	
15-AUG-1974	149.90	

The water level measurement shown on Table 2.4.12-7 for the 1972 low is in error. The elevation listed is 143 ft. This number was determined (in error) by subtracting the measured depth of well (82 ft below M.P.) on 2/9/72 instead of the depth to water, which was 70.5 ft. The correct water level elevation is 154.5 ft. The correct low water level elevation for 1972 is 153.0 ft, measured on March 16.



Water Levels for Well 144

Date	Elevation	NOTES
-----	-----	-----
11-DEC-1982	104.70	
23-JUN-1983	105.60	
21-SEP-1983	105.50	

Water Levels for Well 145G

Date	Elevation	NOTES
01-OCT-1971	195.10	
05-OCT-1971	195.70	
07-OCT-1971	195.60	
12-OCT-1971	194.70	
24-OCT-1971	196.70	
02-NOV-1971	194.90	
10-NOV-1971	196.30	
17-NOV-1971	194.90	
23-NOV-1971	196.60	
01-DEC-1971	196.50	
07-DEC-1971	196.70	
14-DEC-1971	197.30	
23-DEC-1971	193.90	
29-DEC-1971	194.90	
05-JAN-1972	195.00	
12-JAN-1972	194.70	
19-JAN-1972	196.20	
24-JAN-1972	197.40	
03-FEB-1972	195.90	
09-FEB-1972	195.90	
23-FEB-1972	195.50	
02-MAR-1972	194.70	
09-MAR-1972	194.60	
16-MAR-1972	195.70	
21-MAR-1972	195.40	
18-APR-1972	194.70	
01-MAY-1973	147.20	(1)
30-MAY-1973	160.50	
27-JUL-1973	160.70	
13-OCT-1973	158.30	(2)
03-NOV-1973	153.10	
09-DEC-1973	157.40	
07-JAN-1974	151.20	
10-FEB-1974	154.90	
23-MAR-1974	155.70	
17-APR-1974	154.00	
15-AUG-1974	152.20	

NOTE:

(1) Data not valid. Data not plotted on hydrograph.

(2) Changed from monitoring by LETCO to monitoring by Georgia Power Co.

The water level elevation in this well fluctuated a maximum of 3.5 ft, between elevation 197.4 and 193.9, from the first measurements from 1/5/71 through 4/18/72. The April 18, 1972 measurement was the last measurement made by Law Engineering Co. personnel. The next measurement was made on May 1, 1973 by personnel of Georgia Power Co. and was recorded as elevation 147.20 ft. The remaining measurements through August 15, 1974, show the water level to fluctuate between 147.2 and 160.7 ft (13.5 ft).

We have no explanation for the more than 30 ft (consistent) difference