

**NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL**

FILE NUMBER

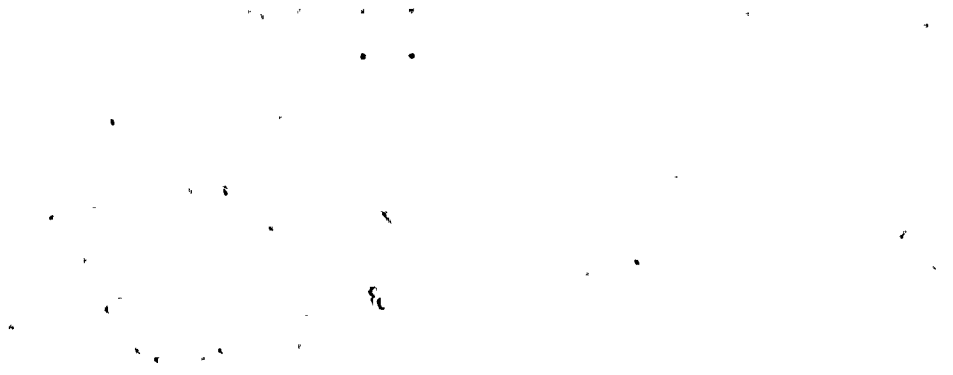
<b>TO:</b> Mr. Donald Elliot		<b>FROM:</b> Florida Power & Light Company Miami, Florida W. S. Tucker		<b>DATE OF DOCUMENT</b> 5/10/77	
<input checked="" type="checkbox"/> LETTER <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> COPY		<input type="checkbox"/> NOTORIZED <input checked="" type="checkbox"/> UNCLASSIFIED		<b>DATE RECEIVED</b> 5/16/77	
PROP		INPUT FORM		<b>NUMBER OF COPIES RECEIVED</b> <b>1 SIGNED</b>	

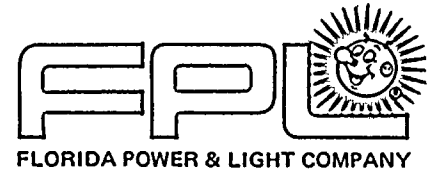
<p><b>DESCRIPTION</b></p> <p>Ltr. trans the following:</p> <p style="text-align: right;">(1-P)</p> <p><b>PLANT NAME:</b> Turkey Point Units 3 &amp; 4</p> <p>RJL</p>	<p><b>ENCLOSURE</b></p> <p>Consists of the Groundwater Monitoring Program Data Report No. 59 for the May, 1977 monitoring period for the E-series wells including the results of the transmissivity test for the quarter ending March, 1977....</p> <p style="text-align: center;">(8-P)</p> <p style="text-align: center;"><b>ACKNOWLEDGED DO NOT REMOVE</b></p>
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SAFETY		FOR ACTION/INFORMATION		ENVIRO	
ASSIGNED AD:		ASSIGNED AD:			
BRANCH CHIEF:	<i>Lean (S)</i>	BRANCH CHIEF:			
PROJECT MANAGER:	<i>Elliot</i>	PROJECT MANAGER:			
LIC. ASST. :	<i>Parrish</i>	LIC. ASST. :			

INTERNAL DISTRIBUTION			
<input checked="" type="checkbox"/> REG FILE	<input type="checkbox"/> SYSTEMS SAFETY	<input type="checkbox"/> PLANT SYSTEMS	<input type="checkbox"/> SITE SAFETY & COMMS
<input checked="" type="checkbox"/> NRC PDR	<input type="checkbox"/> HELNEMAN	<input type="checkbox"/> TEDESCO	<input type="checkbox"/> ENVIRO ANALYSIS
<input checked="" type="checkbox"/> I & E (2)	<input type="checkbox"/> SCHROEDER	<input type="checkbox"/> BENAROYAN	<input type="checkbox"/> DENTON & MILLER
<input type="checkbox"/> OELD		<input type="checkbox"/> LAINAS	
<input checked="" type="checkbox"/> GOSSICK & STAFF	<input type="checkbox"/> ENGINEERING	<input type="checkbox"/> IPPOLITO	<input type="checkbox"/> ENVIRO TECH.
<input type="checkbox"/> MIPC	<input type="checkbox"/> MACARRY	<input type="checkbox"/> KIRKWOOD	<input type="checkbox"/> ERNST
<input type="checkbox"/> CASE	<input type="checkbox"/> BOSNAK		<input type="checkbox"/> BALLARD
<input type="checkbox"/> HANAUER	<input type="checkbox"/> SIHWEIL	<input type="checkbox"/> OPERATING REACTORS	<input type="checkbox"/> YOUNGBLOOD
<input type="checkbox"/> HARLESS	<input type="checkbox"/> PAWLICKI	<input type="checkbox"/> STELLO	
			<input type="checkbox"/> SITE TECH.
<input type="checkbox"/> PROJECT MANAGEMENT	<input type="checkbox"/> REACTOR SAFETY	<input type="checkbox"/> OPERATING TECH.	<input type="checkbox"/> GAMMILL
<input type="checkbox"/> BOYD	<input type="checkbox"/> ROSS	<input checked="" type="checkbox"/> EISENHUT	<input type="checkbox"/> STEPP
<input type="checkbox"/> P. COLLINS	<input type="checkbox"/> NOVAK	<input checked="" type="checkbox"/> SHAO	<input type="checkbox"/> HULMAN
<input type="checkbox"/> HOUSTON	<input type="checkbox"/> ROSZTOCZY	<input checked="" type="checkbox"/> BAER	
<input type="checkbox"/> PETERSON	<input type="checkbox"/> CHECK	<input checked="" type="checkbox"/> BUTLER	<input type="checkbox"/> SITE ANALYSIS
<input type="checkbox"/> MELTZ		<input checked="" type="checkbox"/> GRIMES	<input type="checkbox"/> VOLLNER
<input type="checkbox"/> HELTEMES	<input type="checkbox"/> AT & I		<input type="checkbox"/> BUNCH
<input type="checkbox"/> SKOVHOLT	<input type="checkbox"/> SALTZMAN		<input checked="" type="checkbox"/> J. COLLINS
	<input type="checkbox"/> RUTBERG		<input type="checkbox"/> KREGER

EXTERNAL DISTRIBUTION			CONTROL NUMBER
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<input checked="" type="checkbox"/> TIC:	<input type="checkbox"/> REG V, IE	<input type="checkbox"/> ULRIKSON (ORNL)	
<input checked="" type="checkbox"/> NSIC:	<input type="checkbox"/> LA PDR		
<input type="checkbox"/> ASLB:	<input type="checkbox"/> CONSULTANTS:		
<input checked="" type="checkbox"/> ACRS 16 CYS HOLDING/SENT	<i>As per B</i>		





May 10, 1977

Mr. Donald Elliot  
Operating Reactors  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Regulatory

File Cy.

Dear Mr. Elliot:

Re: Groundwater Monitoring Program, Turkey Point  
Docket No. 50-250/251, Control No. 8728

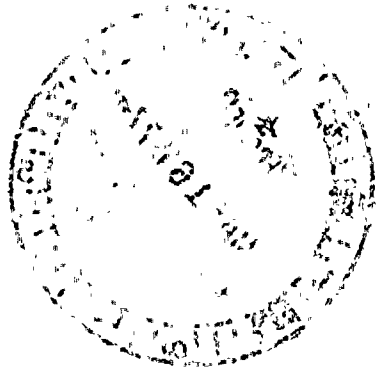
Enclosed please find the Groundwater Monitoring Data Report No. 59 for the May 1977 monitoring period for the E-series wells.

Also enclosed are the results of the transmissivity test for the quarter ending March 1977.

Sincerely,

*W. S. Tucker*  
W. S. Tucker, Manager  
Environmental Affairs

Enc.



THE TOLSON  
FEDERAL BUREAU OF INVESTIGATION

TURKEY POINT COOLING CANAL SYSTEM

QUARTERLY TRANSMISSIVITY TEST

E - SERIES WELLS

FOR THE MONTH OF APRIL, 1977

<u>WELL DESIGNATION</u>	<u>DATE OF TEST</u>	<u>HEAD DRAW DOWN IN FT.</u>	<u>PUMPING RATE GPM</u>
E-1	4/19/77	.15	170
E-2	4/19/77	0.25	170
E-3	4/19/77	0.35	170
E-4	4/19/77	0.55	170
E-5	4/19/77	0.78	153
E-6	4/19/77	0.55	162
E-7	4/20/77	0.62	181
E-8	4/20/77	0.53	176
E-9	4/20/77	Well Blocked	
E-10	4/20/77	1.25	171
E-11	4/20/77	0.59	181
E-12	4/20/77	0.65	181
E-13	4/20/77	1.08	181
E-14	4/20/77	0.45	181
E-15	4/20/77	0.40	171
E-16	4/20/77	1.15	180
E-17	4/20/77	.20	175
E-18	4/20/77	.27	183
E-19	4/20/77	.81	171
E-20	4/20/77	.22	175
E-21	4/20/77	.18	175
E-22	4/20/77	.37	167
E-23	4/20/77	.17	183

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APR 28 1977

Env'l Affairs

W. H. R. ...

GROUNDWATER MONITORING DATA  
FOR  
TURKEY POINT - EPA WELLS (E-SERIES)

WELL NO.	DATE	TIME	SURFACE REFERENCE ELEVATION (FT.,MSL)	WATER LEVEL		SURFACE WATER		FIELD MEASUREMENT					NOTES	
				DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	MEASURED AT		CONDUCTIVITY (MICROHMS PER CM)	TEMP. °C	RESIDUAL CHLORINE PPM		WATER SAMPLE
								DEPTH BELOW REF. (FT.)	ELEV. (FT.,MSL)					
E-1	4/26	1040	3.44	4.34	7.90	NSW		20	-16.56	48,500	24.3	0.0	✓	
								40	-36.56	52,000	24.6			
								60	-56.56	52,500	24.7			
E-2	4/26	1050	2.33	2.10	6.23	NSW		20	-17.67	51,000	24.2	0.0	✓	
								40	-37.67	52,000	24.6			
								60	-57.67	52,000	24.6			
E-3	4/26	1008	4.89	5.23	6.34	NSW		20	-15.11	25,000	26.6	0.0	✓	
								40	-35.11	55,000	23.3			
								60	-55.11	55,500	23.5			
E-4	4/26	1020	2.41	2.99	7.58	NSW		20	-17.59	38,500	25.0	0.0	✓	
								40	-37.59	53,000	25.3			
								60	-57.59	55,500	25.4			
E-5	4/26	1010	7.37	6.74	6.63	NSW		20	-12.63	59,000	32.7	0.0	✓	
								40	-32.63	60,500	33.9			
								60	-52.63	60,500	34.0			
E-6	4/26	1000	6.52	6.20	6.32	NSW		20	-13.48	56,500	29.9	0.0	✓	
								40	-33.48					Blocked AT 40'
								60	-53.48					

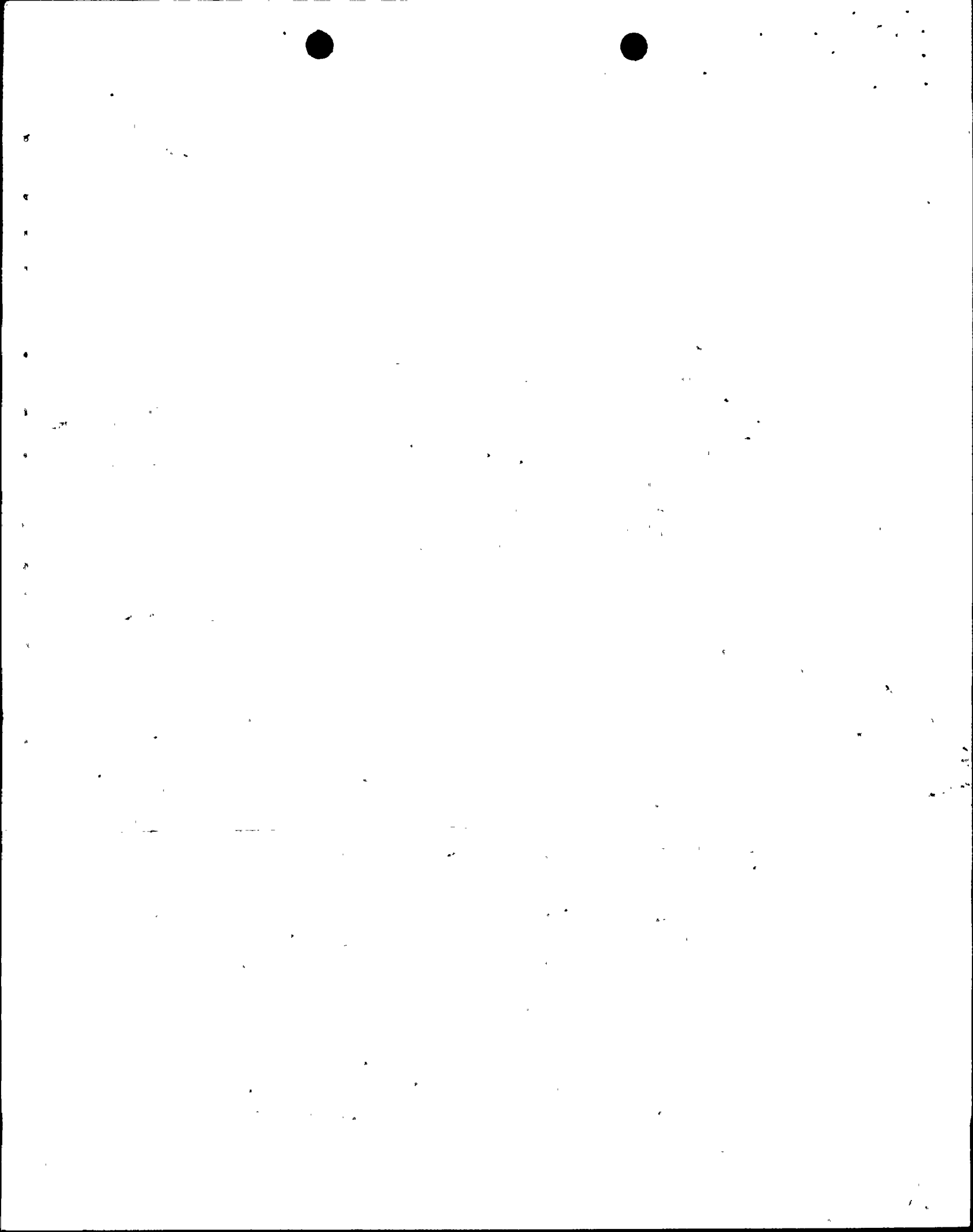


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GROUNDWATER MONITORING DATA  
FOR  
TURKEY POINT - EPA WELLS (E-SERIES)

WELL NO.	DATE	TIME	SURFACE REFERENCE ELEVATION (FT.,MSL)	WATER LEVEL		SURFACE WATER		FIELD MEASUREMENT					NOTES	
				DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	MEASURED AT		CONDUCTIVITY (MICROMHOS PER CM)	TEMP. °C	RESIDUAL CHLORINE		WATER SAMPLE
								DEPTH BELOW REF.(FT.)	ELEV. (FT.,MSL)					
E-7	4/27	0915	2.04	1.27	0.77	1.57	0.47	20	-17.96	57500	23.5	0.0	✓	BLOCKED
								40	-37.96					
								60	-57.96					
E-8	4/27	0925	4.23	3.57	0.66	NSW		20	-15.77	53500	24.0	0.0	✓	
								40	-35.77	58000	25.0			
								60	-55.77	59000	25.2			
E-9	4/27	0930	4.20	3.46	0.74	3.23	0.97	20	-15.80	54000	23.5	0.0	✓	
									40	-35.80	59000	23.5		
									60	-55.80	59000	23.5		
E-10	4/27	0945	4.19	3.36	0.83	NSW		20	-15.81	55500	24.3	0.0	✓	
								40	-35.81	56000	25.0			
								60	-55.81	56500	25.1			
E-11	4/27	0940	4.23	3.47	0.76	NSW		20	-15.77	56500	24.0	0.0	✓	
								40	-35.77	56500	24.4			
								60	-55.77	56500	24.5			
E-12	4/27	0955	3.56	2.78	0.78	2.52	1.06	20	-16.44	51500	24.0	0.0	✓	
									40	-36.44	57000	25.2		
									60	-56.44	57000	25.3		



GROUNDWATER MONITORING DATA  
FOR  
TURKEY POINT - EPA WELLS (E-SERIES)

WELL NO.	DATE	TIME	SURFACE REFERENCE ELEVATION (FT.,MSL)	WATER LEVEL		SURFACE WATER		FIELD MEASUREMENT					NOTES	
				DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	MEASURED AT		CONDUCTIVITY (MICROMHOS PER CM)	TEMP. °C	RESIDUAL CHLORINE PPM		WATER SAMPLE
								DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)					
E-13	4/27	1000	3.96	3.19	0.77	3.01	0.95	20	-16.04	54000	24.4	0.0	✓	
								40	-36.04	55500	24.9			
								60	-56.04	55500	25.0			
E-14	4/27	1007	3.47	2.94	0.53	NSW		20	-16.53	55000	24.6	0.0	✓	
								40	-36.53	55000	25.2			
								60	-56.53	55000	25.3			
E-15	4/27	1015	3.63	3.09	0.54	NSW		20	-16.37	54000	24.4	0.0	✓	
								40	-36.37	55500	25.2			
								60	-56.37	55500	25.3			
E-16	4/27	1020	4.83	4.22	0.61	NSW		20	-15.17	52500	24.4	0.0	✓	
								40	-35.17	54500	25.4			
								60	-55.17	55500	25.4			
E-17	4/27	1025	2.31	1.68	0.63	NSW		20	-17.69	54500	25.0	0.0	✓	
								40	-37.69	55000	25.4			
								60	-57.69	55500	25.4			
E-18	4/27	1030	3.23	2.65	0.58	NSW		20	-16.77	53000	24.7	0.0	✓	
								40	-36.77	55500	25.3			
								60	-56.77	56000	25.3			



1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is crucial for ensuring the integrity of the financial data and for facilitating audits.

2. The second part of the document outlines the various methods used to collect and analyze data. It describes how different types of information are gathered and how they are processed to generate meaningful insights.

3. The third part of the document focuses on the challenges associated with data management. It highlights the need for robust security measures to protect sensitive information and the importance of regular backups to prevent data loss.

4. The fourth part of the document discusses the role of technology in modern data analysis. It explores how advanced tools and software can streamline the process and improve the accuracy of the results.

5. The fifth part of the document concludes by summarizing the key findings and providing recommendations for future research. It suggests that ongoing innovation in data science will continue to drive progress in this field.

6. The sixth part of the document provides a detailed overview of the data collection process. It explains how data is gathered from various sources and how it is organized into a structured format for analysis.

7. The seventh part of the document describes the various techniques used for data analysis. It covers both traditional statistical methods and more advanced machine learning algorithms.

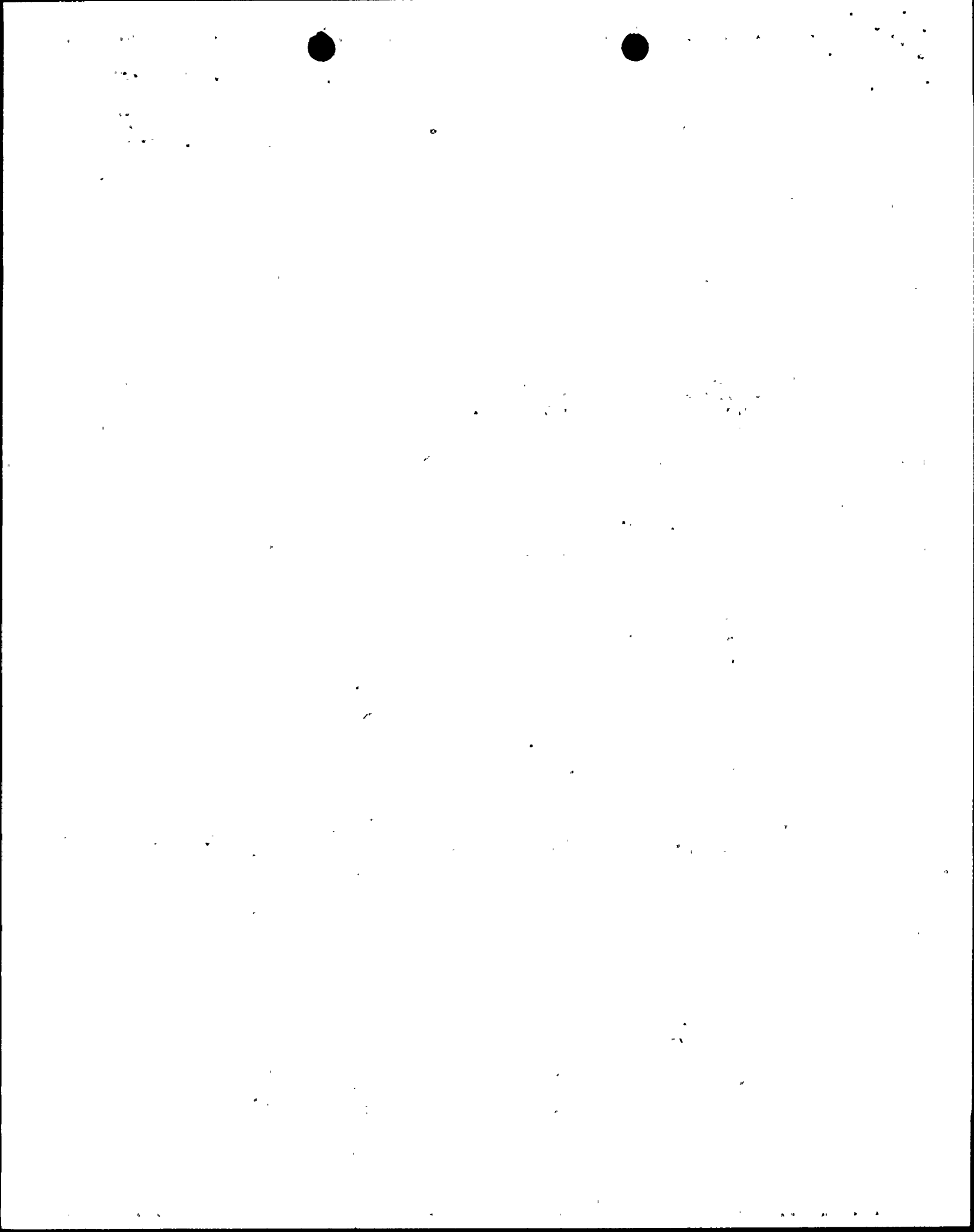
8. The eighth part of the document discusses the importance of data visualization. It explains how visual representations can help to identify patterns and trends in the data that might not be as apparent from raw numbers.

9. The ninth part of the document focuses on the ethical considerations of data analysis. It discusses the need for transparency and accountability in the use of data and the importance of protecting individual privacy.

10. The tenth part of the document concludes by providing a final summary of the document's content and offering suggestions for further reading and research.

GROUNDWATER MONITORING DATA  
FOR  
TURKEY POINT - EPA WELLS (E-SERIES)

WELL NO.	DATE	TIME	SURFACE REFERENCE ELEVATION (FT.,MSL)	WATER LEVEL		SURFACE WATER		FIELD MEASUREMENT					NOTES
				DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	MEASURED AT DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	CONDUCTIVITY (MICROMHOS PER CM)	TEMP. °C	RESIDUAL CHLORINE PPM	
E-19	4/27	1105	3.61	2.73	0.88	NSW		20	-16.39	49000	24.1	0.0	✓
								40	-36.39	59000	24.9		
								60	-56.39	59000	25.0		
E-20	4/27	1100	4.04	3.25	0.79	NSW		20	-15.96	46000	23.7	0.0	✓
								40	-35.96	53500	24.3		
								60	-55.96	57500	24.5		
E-21	4/27	1035	3.24	2.45	0.79	NSW		20	-16.76	49500	23.9	0.0	✓
								40	-36.76	56000	24.7		
								60	-56.76	57500	24.8		
E-22	4/27	1045	2.41	1.71	0.70	1.57	0.84	20	-17.59	60000	24.5	0.0	✓
								40	-37.59	60500	24.8		
								60	-57.59	60500	24.8		
E-23	4/27	1050	4.29	3.88	0.41	3.73	0.56	20	-15.71	59000	25.0	0.0	✓
								40	-35.71	59500	25.2		
								60	-55.71	60000	25.2		





May 10, 1977

Mr. Abe Kreitman, Director  
Groundwater Division  
Resource Planning Department  
South Florida Water Management  
District  
P. O. Box V  
West Palm Beach, Florida 33402

Dear Mr. Kreitman:

Re: FPL/FCD Cooling Canal System Agreement  
Turkey Point Plant, Dade County

Enclosed are the laboratory analyses of the groundwater samples taken for the March and April 1977 monitoring period.

Sincerely,

*W. S. Tucker*  
W. S. Tucker, Manager  
Environmental Affairs

Enc.

cc: Mr. Donald Elliot, USNRC (Docket No. 50-250/251) ✓  
(Control No. 8728)



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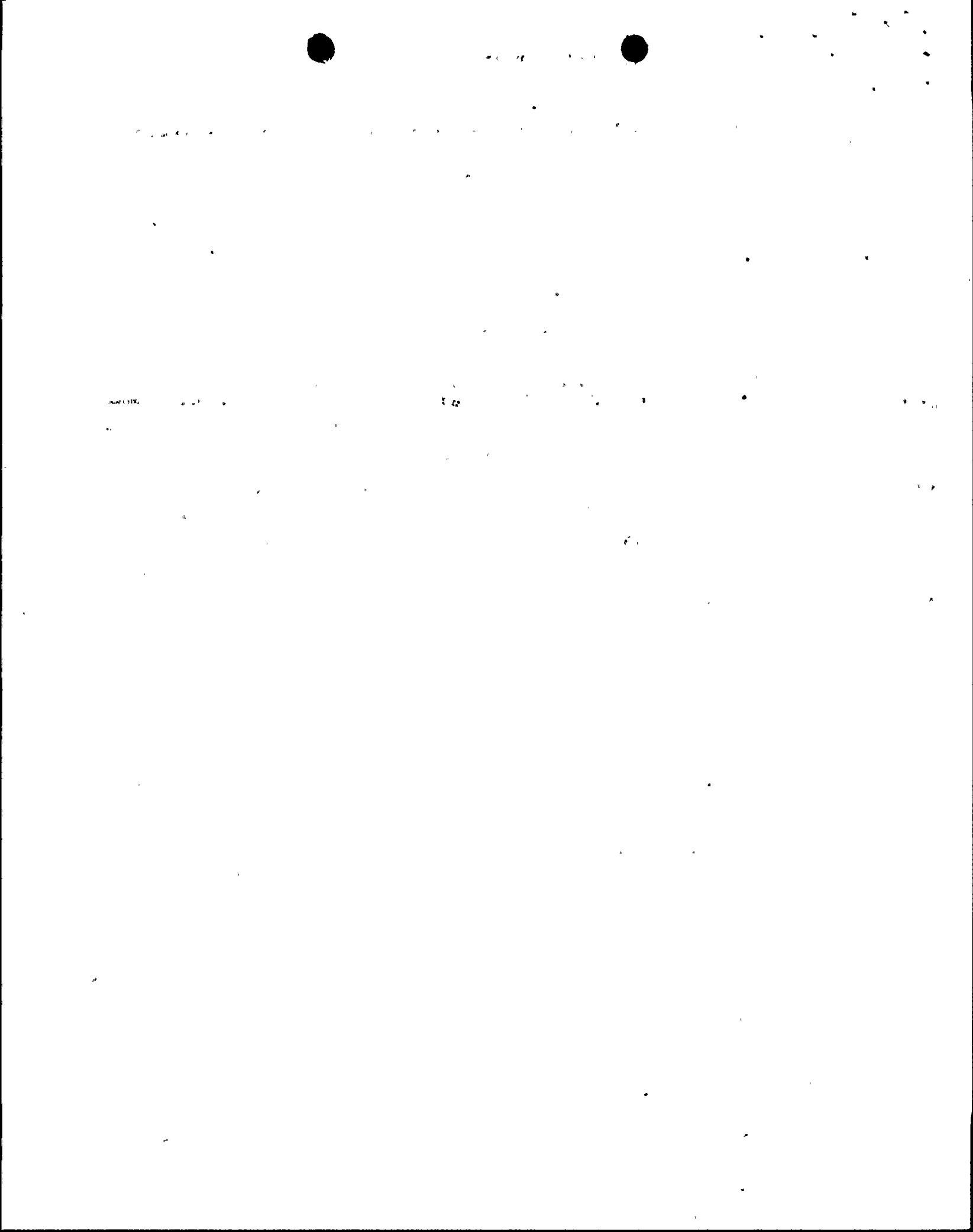
GROUNDWATER MONITORING PROGRAM

FCD WELL SERIES

TURKEY POINT FLORIDA

CHLORIDE DATA OF MARCH, 1977

<u>WELL DESIGNATION</u>	<u>SAMPLE DATE</u>	<u>DEPTH IN FT.</u>	<u>CHLORIDE IN PPM</u>
G-6	2/24/77	59'	15,956
G-7	2/24/77	57'	456
G-21	2/25/77	59'	2,261
G-27	2/24/77	37'	10,333
G-28	2/25/77	55'	5,622
G-35	2/25/77	59'	8,585
ID-A	2/26/77	19'	17,932
ID-B	2/26/77	34'	18,387
ID-C	2/26/77	59'	18,007
ID-D	2/26/77	60'	17,324
ID-E	2/26/77	28'	16,537
L-1	2/24/77	59'	16,564
L-2	2/25/77	47'	17,703
L-3	2/25/77	60'	16,868
L-4	2/25/77	39'	14,360
L-5	2/25/77	35'	13,981
L-6	2/25/77	60'	17,961
X-1	2/26/77	60'	19,147
X-2	2/26/77	58'	19,375



GROUNDWATER MONITORING PROGRAM

FCD -WELL SERIES

TURKEY POINT, FLORIDA

CHLORIDE DATA OF APRIL, 1977

<u>WELL DESIGNATION</u>	<u>SAMPLE DATE</u>	<u>DEPTH IN FT.</u>	<u>CHLORIDE IN PPM</u>
ID-A	3/26/77	22'	18,630
ID-B	3/26/77	39'	19,226
ID-C	3/26/77	59'	18,779
ID-D	3/26/77	40'	17,288
ID-E	3/26/77	60'	17,437
L31-1	3/25/77	58'	17,139
L31-2	3/25/77	39'	17,437
L31-3	3/25/77	57'	18,034
L31-4	3/25/77	60'	16,543
L31-5	3/25/77	39'	15,798
L31-6	3/25/77	58'	18,332
X-2	3/30/77	60'	20,418

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U.S. GEOLOGICAL SURVEY

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