LOC

July 17, 1980

Mr. James G. Keppler, Director Directorate of Inspection and Enforcement - Region III U.S. Nuclear Regulatory Commission 799 Roosevelt Road Glen Ellyn, IL 60137

Subject: Dresden Station

Cooling Lake Surveillance

Reports

Dear Mr. Keppler:

Enclosed for your information are one copy each of the Dresden Cooling Lake Inspection reports for May and June, 1980. These reports were requested by Mr. E. Gallagher of your office.

If we can be of any further assistance, please contact this office.

Very truly yours,

Robert F. Janecek

Nuclear Licensing Administrator

Boiling Water Reactors

Robert Janeal

5324A

FULL 2 1 1980

THIS DOCUMENT CONTAINS POOR QUALITY PAGES

TO: R. Ragan

SUBJECT: Dresden Cooling Lake Inspection

On May 31, 1980, an inspection of the Dresden Cooling Lake, Goose Lake Pump Station, and associated areas was conducted by P. Holland and K. Zirwas. The results were as follows:

- A. Previously Noted Items
 - 1. Water level readings are in the attachment.
 - The seepage along the Kankakee River (Point 1 on the attached map) has not changed.
- B. New Items Found During This Inspection
 - 1. Several animal burrows were destroyed in all areas of the dike.
- C. Noteworthy Items for Information Only
 - 1. The boil on the east end of pool #2 has not changed.
 - The center dike, approximately 300 feet east of the spillway, has not changed.
 - 3. No excessive debris, algae, or moss was found in or around the lake.
 - 4. All gates approached were properly locked.

Prepared by

P. Holland

Technical Staff

Approved by

D. L. Farrar

Technical Staff Supervisor Dresden Nuclear Power Station

DLF:PH:mt

AL.achment

cc: D. Farrar

E. Eenigenburg

E. Budzichowski

H. Gustin

J. Jones, Harza Eng.

R. Wong, Harza Eng.

D. Bodine, S & L

File / P. Holland

DRESDEN LAKE INSPECTION

A. PURPOSE

The purpose of this procedure is to visually inspect Dresden Lake and report potential problems that could have adverse effects on the operation of the Station.

B. REFERENCES

Final Environmental Statement Units 2 and 3, November, 1973

C. PREREQUISITES

- 1. Review this procedure prior to lake inspection.
- Review the suggested route for inspection on the site map (attached).
- 3. A G-type Key will be needed for access to the lake.
- 4. Schedule the use of a vehicle for inspection.
- 5. Review previous inspection report and note the unusual conditions.
- 6. Two persons will be required for the lake inspection.

D. PRECAUTIONS

None.

E. LIMITATIONS AND ACTIONS

None.

F. PROCEDURE

- The frequency of inspections is once a month during the entire year.
- 2. The following procedure has been developed to ensure an adequate monthly inspection of the dikes, flumes, and ditches of the Dresden Cooling Lake, associated canals, and Kankakee River bank. In addition, this inspection will verify proper drainage of the land surrounding the lake to Goose Lake Pumping Station.
 - a. Exterior Dikes (visual inspection to look for the following).
 - (1) Wet areas on the face of the dike.

JAN 12'80 D.O.S.R.

- (2) Wet areas in the immediate area of the base of the dike.
- (3) Slumping or falling of dike composition material on the face of the dike.
- (4) Cracks, open pit holes, slumping on the top of the dike.
- (5) Condition of rip-rap material and material beneath rip-rap.
- b. Interior Dikes (visual inspection to look for the following).
 - (1) Slumping or falling of dike composition material.
 - (2) Condition of rip-rap material and material beneath rip-rap.
 - (3) Cracks, open pit holes, slumping on the top of the dike.
- c. Flumes (visual inspection to look for the following).
 - (1) Slumping or falling of dike composition material.
 - (2) Wet areas to either side of flumes.
 - (3) Cracks, open pit holes, slumping in the center flumes.
- d. General (visual inspection to look for the following).
 - Obstruction in the ditches and culverts on the exterior of dike.
 - (2) Debris on lake and flume surface.
 - (3) Damage to exterior fence.
 - (4) Blockage in culvert beneath intake and discharge canal.
 - (5) Basin and operation of Goose Lake Pumping Station.
 - (6) Seepage in the area of the lift station and spillway.
 - (7) Burrow holes or the burrowing of animals into either the dikes or the immediate area of the dikes.

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2 of 7

- (8) Dumping of miscellaneous materials on any Commonwealth Edison property.
- (9) Measure and record pizometers using the attached checklist.
- (10) Check for seepage along the Kankakee River bank both above and below river level.
- Should any of the above-mentioned items occur, it is necessary that there be an immediate investigation to determine the cause and the necessary corrective action to be taken. The corrective action taken will depend on the nature of the circumstances surrounding the problem, but in some instances corrective action would have to be performed immediately because dike failure could result.
- After inspection, write a brief report summarizing the f. ondition of the lake and surrounding areas. Also mark up the attached copy of print M-1A showing the location of any problem areas or unusual conditions.
- Route the report to: q.
 - (1) Operations Assistant Superintendent (2) Maintenance Assistant Superintendent

(3) Operating Engineer

4) Technical Staff Supervisor

(5) Station Nuclear Engineering Department

(6) J. Jones, Harza Engineering(7) Sargent and Lundy

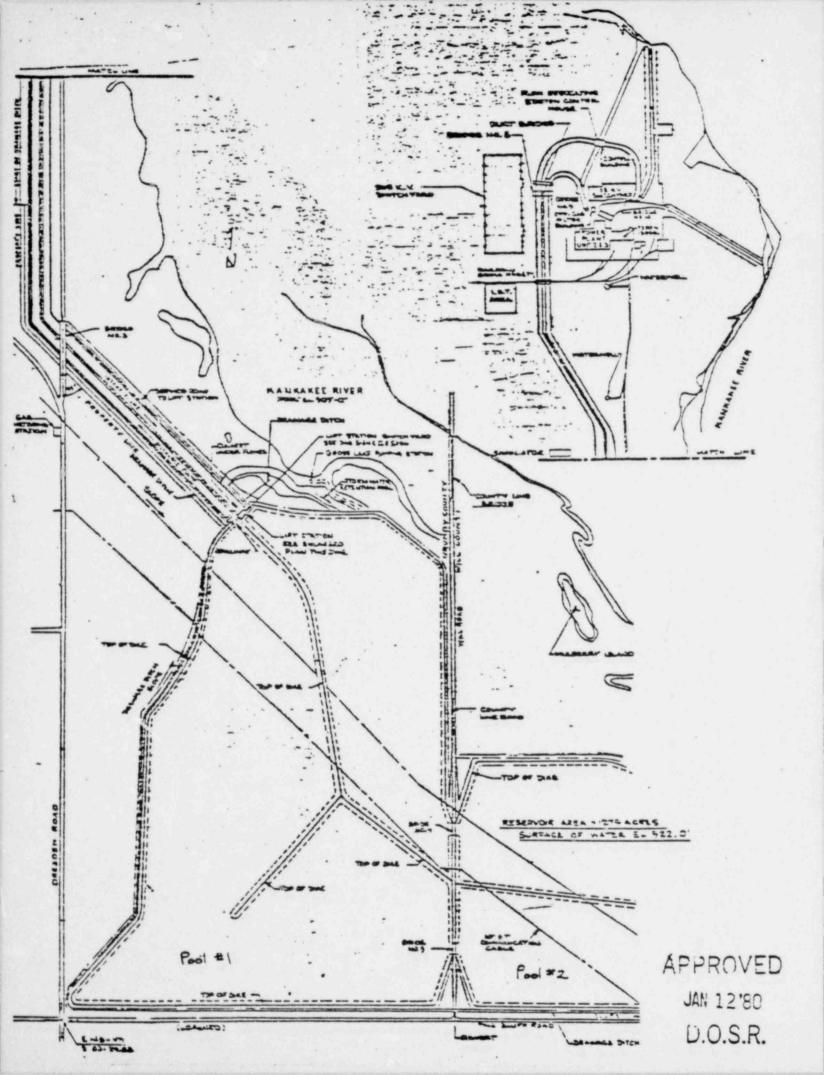
(8) Originator for the Tech Staff files

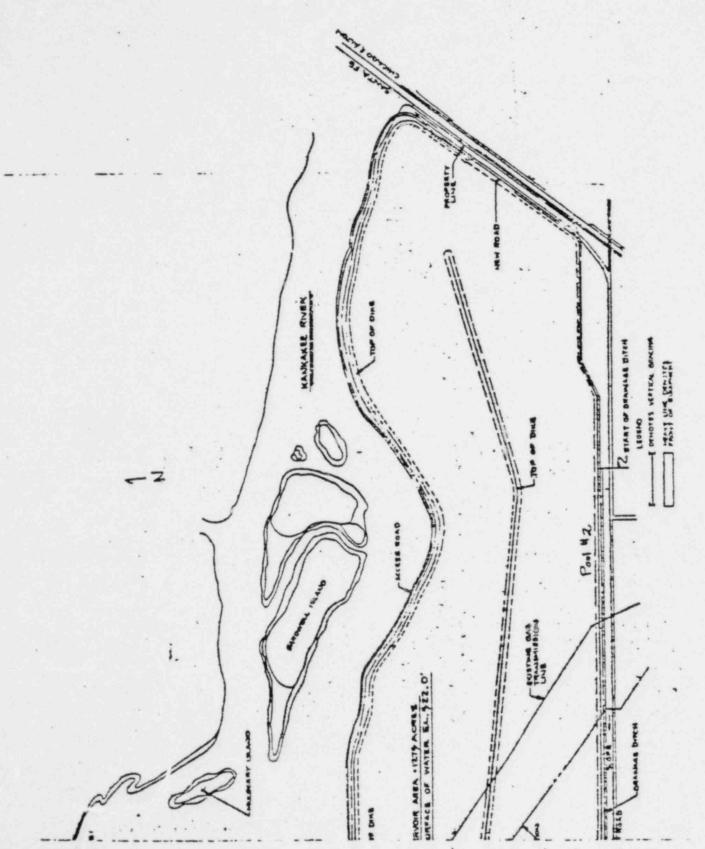
CHECKLISTS G.

- Site maps, attached.
- Pizometer Data Sheet.
- TECHNICAL SPECIFICATION REFERENCES H.

None .

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D.O.S.R

Pizometer Data Sheet

may 31,1980

Pizometer Number	Boring Number	Elevation in ft. (A)	Reading in ft. (8)	True Water Level in feet (A)-(B)
F	Pool #1 North Di	ke (West to East)		
1	B79-21	527.06	9.00	518.06
2	B79-20	526.90	7.50	519.40
3	B79-22	526.83	10.07	516.76
4	B79-19	527.23	20.00	507.23
5	B79-18	527.25	18.50	508.75
	Pool #1 Toe of 1	North Dike		
6	B79-23	514.35	.50	513.85
	Pool #1 South D	ike (West to East)	-	
7	B79-28	527.28	12.83	514.45
8	B79-27	527.53	13.58	513.95
9	B79-26	526.98	13.75	513.23
10	879-25	527.10	15.58	511.52
11	B79-24	527.84	10.25	517.59
	Pool #2 Dike St	arting on South Di	ke West to North	Dike West
12	B79-35	528.28	9.17	519.11
13	B79-34	527.57	7.50	520.07
14	B79-33	528.10	8.33	519.77
15	B79-32	527.22	17.33	509.89
16	B79-31	527.15	18.07	509.08
17	B79-10	527.53	14.33	5/3 , 30
18	B79-9	527.11	15.25	511.86

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Pizometer Data Sheet (cont'd)

May 31, 1980

Pizometer Number	Boring Number	Elevation in ft. (A)	Reading in ft. (B)	True Water Level in feet (A)-(B)
		arting on South Dik		ke West (cont'd)
19	B79-11	527.35	17.92	509.43
20	** B79-42	* 528.64	19.50	509.14
21	B79-14	527.07	17.92	509.15
**22A	B79-41A	* 527.58	19.00	509.58
22B	879-418	* 527.50	12.42	510,08
**23	B79-40	* 528.58	20.83	507.75
24	B79-30	527.03	11.137	516.86
25	B79-36	* 527.25	14.67	5/2.58
26	B79-16	526.40	6.25	520.15
27	B79-15	527.28	19.92	507.36
28	B79-29	7.07 פיז	21.07	506.00
***29A	B79-37A	* 527.46	10.17	517.29
298	B7 -37B	* 527.17	10.83	516.34
Pool	#2 Toe of Nort	h Dike (West to Eas	t)	
30	B79-5	514.68	6.33	508.35
31	B79-4	513.75	5.33	508.42
32	B79-1	513.15	3.00	510.15
33	879-2	513.05	3.00	\$10.05
Mr. from	Novac's Propert	y, North Side of Co	ottage Road across	
34	B79-7	513.06	4.67	508.39
35	B79-8	511.36	4.67	506.69

^{*} Elevations are approximate based on Dike Elevation of 527.00 feet APPROVED

379-15 527.28 -14.00 513 .28

JAN 12'80

D.O.S.R.

^{**} Pizometer sealed in sand lenz *** Pizometer sealed in coal lenz

TO: R. Ragan

SUBJECT: Dresden Cooling Lake Inspection

On June 30, 1980, an inspection of the Dresaen Cooling Lake, Goose Lake Pump Station, and associated areas was conducted by P. Holland and K. Zirwas. The results were as follows:

- A. Previously Noted Items
 - 1) Water level readings are in the attachment.
 - 2) The seepage along the Kankakee River (Point 1 on the attached map) has significantly dropped. This is due to the hot, dry weather.
- New Items Found During This Inspection
 - 1) The three additional well readings installed in April, 1980 are:

	Water Level	Elevation
B-80-1	4.0	523.00
B-80-2	3.58	523.42
B-80-3A	5.17	521.83

- 2) Several animal burrows were destroyed in all areas of the dike.
- C. Noteworthy Items for Information Only
 - 1) The boil on the east end of pool #2 has not changed.
 - 2) The center dike, approximately 300 feet east of the spillway, has not changed.
 - 3) No excessive debris, algae, or moss was found in or around the lake.
 - 4) All gates approached were properly locked.

Prepared by

P. Holland

Technical Staff

Approved by

D. L'. Farrar

Technical Staff Supervisor Dresden Nuclear Power Station

DLF: PH: mt Attachment

cc: D. Farrar

E. Eenigenburg E. Budzichowski H. Gustin

J. Jones, Harza Eng. Yile/P. Holland R. Wong, Harza Eng.

D. Bodine, S & L

A. PURPOSE

The purpose of this procedure is to visually inspect Dresden Lake and report potential problems that could have adverse effects on the operation of the Station.

B. REFERENCES

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C. PREREQUISITES

- 1. Review this procedure prior to lake inspection.
- Review the suggested route for inspection on the site map (attached).
- 3. A G-type Key will be needed for access to the lake.
- 4. Schedule the use of a vehicle for inspection.
- 5. Review previous inspection report and note the unusual conditions.
- 6. Two persons will be required for the lake inspection.

D. PRECAUTIONS

None.

E. LIMITATIONS AND ACTIONS

None.

F. PROCEDURE

- The frequency of inspections is once a month during the entire year.
- The following procedure has been developed to ensure an adequate monthly inspection of the dikes, flumes, and ditches of the Dresden Cooling Lake, associated canals, and Kankakee River bank. In addition, this inspection will verify proper drainage of the land surrounding the lake to Goose Lake Pumping Station.
 - a. Exterior Dikes (visual inspection to look for the following).
 - (1) Wet areas on the face of the dike.

JAN 12'80 D.O.S.R.

- (2) Wet areas in the immediate area of the base of the dike.
- (3) Slumping or falling of dike composition material on the face of the dike.
- (4) Cracks, open pit holes, slumping on the top of the dike.
- (5) Condition of rip-rap material and material beneath rip-rap.
- b. Interior Dikes (visual inspection to look for the following).
 - (1) Slumping or falling of dike composition material.
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- d. General (visual inspection to look for the following).
 - (1) Obstruction in the ditches and culverts on the exterior of dike.
 - (2) Debris on lake and flume surface.
 - (3) Damage to exterior fence.
 - (4) Blockage in culvert beneath intake and discharge canal.
 - (5) Basin and operation of Goose Lake Pumping Station.
 - (6) Seepage in the area of the lift station and spillway.
 - (7) Burrow holes or the burrowing of animals into either the dikes or the immediate area of the dikes.

JAN 12'80 D.O.S.R.

- (8) Dumping of miscellaneous materials on any Commonwealth Edison property.
- Measure and record pizometers using the attached checklist.
- (10) Check for seepage along the Kankakee River bank both above and below river level.
- Should any of the above-mentioned items occur, it is e. necessary that there be an immediate investigation to determine the cause and the necessary corrective action to be taken. The corrective action taken will depend on the nature of the circumstances surrounding the problem, but in some instances corrective action would have to be performed immediately because dike failure could result.
- After inspection, write a brief report summarizing the f. condition of the lake and surrounding areas. Also mark up the attached copy of print M-1A showing the location of any problem areas or unusual conditions.
- Route the report to: g.
 - (1) Operations Assistant Superintendent (2) Maintenance Assistant Superintendent

(3) Operating Engineer

(4) Technical Staff Supervisor

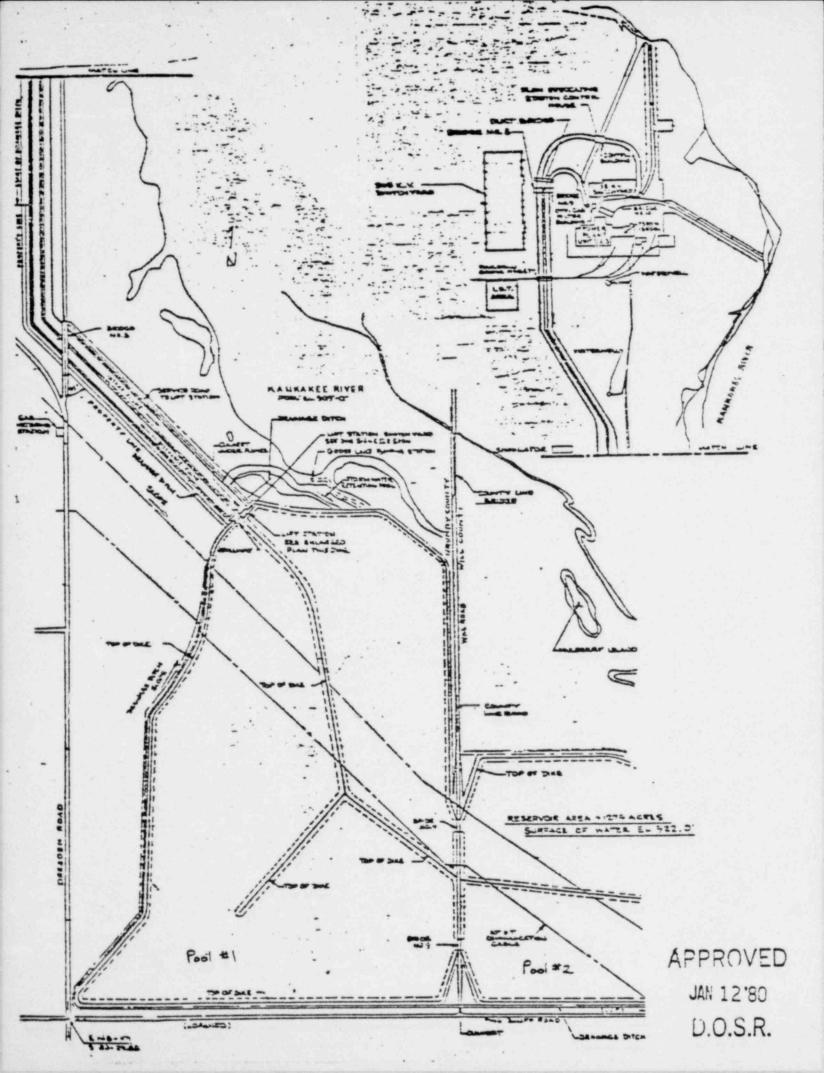
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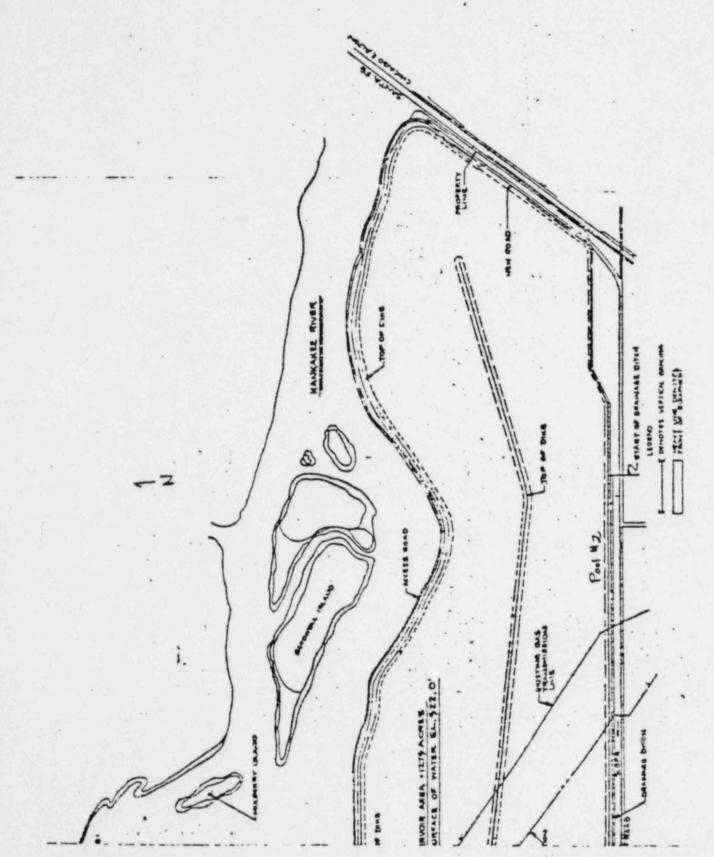
(6) J. Jones, Harza Engineering(7) Sargent and Lundy

- (8) Originator for the Tech Staff files
- CHECKLISTS 6.
 - Site maps, attached.
 - Pizometer Data Sheet.
- TECHNICAL SPECIFICATION REFERENCES H.

None .

APPROVED JAN 12'80 D.O.S.R.





APPROVED
JAN 12'80

Pizometer Data Sheet

June 30, 1980

Pizameter Number	Boring Number	Elevation in ft. (A)	Reading in ft. (8)	True Water Level in feet (A)-(B)
	ool #1 North Di	ke (West to East)		
1	B79-21	527.06	9.00	518.06
2	B79-20	526.90	7.50	519.40
3	B79-22	526.83	9.75	517.08
4	879-19	527.23	20.33	506.90
5	B79-18	527.25	18.00	509.25
	Pool #1 Toe of !	North Dike		
6	B79-23	514.35	.50	513.85
	Pool #1 South D	ike (West to East)		,
. 7	B79-28	527.28	12.25	515.03
8	B79-27	527.53	13.17	514.36
9	B79-26	526.98	13.00	513.98
10	879-25	527.10	15.58	511.52
11	B79-24	527.84	11.00	516.84
	Pool #2 Dike St	arting on South D	ike West to North	
12	B79-35	528.28	10.50	517.78
13	B79-34	527.57	6.67	520.90 Broken
14	879-33	528.10	8.50	519.60
15	B79-32	527.22	17.50	509.72
16	879-31	527.15	18.00	509.32/5
17	B79-10	527.53	15.50	5/2.03
18	B79-9	527.11	15.33	511.78

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JAN 12'80

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Pizometer Data Sheet (cont'd)

June 30, 1980

		June				
Pizometer Number	Boring Number	Elevation in ft. (A)	Reading in ft. (B)	True Water Level in feet (A)-(B)		
F	ool #2 Dike Sta	arting on South Dik	ke West to North Di	he West (cont'd)		
19	B79-11	527.35	18.00	509.35		
20	** B79-42	* 528.64	19.67	508.97		
21	B79-14	527.07	18.00	509.07		
**22A	B79-41A	* 527.58	17.42	510.16		
22B	B79-41B	* 527.50	16.67	510,83 .		
**23	B79-40	* 528.58	20.17	507.83		
24	879-30	527.03	10.50	516.53		
25	B79-36	* 527.25	14.83	512.42		
26	B79-16	526.40	6.08	520.32		
27	B79-15	527.28	20.00	507.28		
28	B79-29	527.07	21.33	505.74		
***29A	B79-37A	* 527.46	10.13	517.33		
298	B79-378	* 527.17	10.83	516.34		
Po 01	#2 Toe of North	Dike (West to Eas	(t)			
30	B79-5	514.68	6.41	508.27		
31	879-4	513.75	5.58	508.17		
32	B79-1	513.15	3.00	510.15		
33	B79-2	513.05	3.00	510.05		
Mr. M	Novac's Property B79-1 & 4 (Sou	y, North Side of Co th to North)	ottage Road across			
34	879-7	513.06	4.67	508.39		
35	B79-8	511.36	4.67	506.69		

^{*} Elevations are approximate based on Dike Elevation of 527.00 feet APPROVED

** Pizometer sealed in sand lenz

*** Pizometer sealed in coal lenz

*** Pizometer sealed in coal lenz

DO.S.R.

⁷ of 7 (FINAL)