

PACIFIC GAS AND ELECTRIC COMPANY
NUCLEAR PLANT OPERATIONS

ANNUAL SUMMARY REPORT ON
MONITORING AND REPORTING PROGRAM AT
DIABLO CANYON POWER PLANT
DURING 1982

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OVERVIEW

Due to revisions in the monitoring and reporting program, adopted January 14, 1982 and amended October 7, 1982 both the reporting frequency and the chemical constituents monitored have changed. Results of our monitoring were reported quarterly for the first three quarters of 1982, and monthly since October. This annual summary report will follow the new format used in the recent monthly monitoring reports.

During 1982 discharges were made from all discharge paths except 001-G, 001-H, 001-I, 001-J, 001-K, 001-L.

Appendix 1 contains a list of non-routine reports sent to staff during 1982.

SUMMARY OF MONITORING PROGRAM RESULTS

A. Monitoring of Plant Influent and Effluent

Appendix 2 contains a summary of the monthly volumes from discharge pathways and both tabular and graphical summaries of the monitoring results previously reported in quarterly and monthly reports.

B. Monitoring of Receiving Waters

1. Ecological Studies at Diablo Canyon

Studies in accordance with the Thermal Effects Monitoring Program (Provision D.7) and studies by the California Department of Fish and Game continue. A periodic report by the California Department of Fish and Game for the period January 1, 1979 - June 30, 1980 was submitted in the first quarterly report of 1982. The annual report of the TEMP program is submitted with this package (Appendix 3).

2. Sediment Analysis

Annual sediment samples were collected on October 28, 1982. Results of analysis were presented in the December report.

3. Aerial Photography of Kelp Beds

Aerial photography (infrared film type 2443) of kelp beds in the vicinity of Diablo Canyon were taken February 18, July 1 and September 20, 1982. Color transparencies of the photos were submitted to staff in the respective quarterly and monthly reports.

4. Surface Water Temperature

These measurements are not scheduled for monitoring until after plant thermal operation begins.

5. Stratified Water Temperatures

These measurements are not scheduled for monitoring until after plant thermal operation begins.

6. pH and Dissolved Oxygen of Receiving Waters

Results of pH and Dissolved Oxygen monitoring in the receiving waters were submitted to staff in the routine quarterly and monthly reports.

7. Incident Light Measurements

Subsurface light measurements were not made this year since the main circulating water pumps were operated only for the purposes of effluent mixing eye tests.

8. Environmental Radiological Monitoring Program

Monthly radiological determinations (gamma isotopic) on seawater and bullkelp, and quarterly samples on black abalone, red abalone, perch and rockfish continued, and results are contained in the routine reports.

9. In situ Bioassay

Results of Mussel Watch will be reported to the Board in the California Department of Fish and Game periodic report for this program. Two periodic samplings of mussels occurred in 1982, June 28 and December 14.

APPENDIX 1

Non-Routine Reports

DEPARTMENT OF NUCLEAR PLANT OPERATIONS
DIABLO CANYON POWER PLANT

Non-Routine Reports Sent to California Regional Water
Quality Control Board - Central Coast Region

<u>Date</u>	<u>Subject</u>
April 12, 1982	Visible oil in ocean from malfunction of oily water separator
June 11, 1982	Elevated chromium analysis result from discharge 001
June 15, 1982	Leachfield overflow into ocean
July 29, 1982	Clarifier sludge pond overflow into Diablo Creek
August 16, 1982	Condensate demineralizer sump overflow into Diablo Creek
September 13, 1982	Elevated copper concentration in discharge 001
October 26, 1982	Visible oil slick in ocean near intake cove breakwater
December 1, 1982	Follow up report on elevated copper concentration in discharge 001

APPENDIX 2

Summaries of Influent and Effluent Monitoring

DIABLO CANYON POWER PLANT
MONTHLY LIQUID DISCHARGE PATHWAY FLOW SUMMARY

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	001 Once Thru Cooling Wtr*	001A Fire Water Flush	001B Aux Salt Water	001C Mu Water Waste	001D Liq Rad Waste	001E Service Colling Wtr	001F TB Sump OWS	001G R.O. Blowdown
1982	x10 ⁶ gal	x10 ³ gal	x10 ⁶ gal	x10 ³ gal	x10 ³ gal	x10 ⁶ gal	x10 ³ gal	x10 ³ gal
JAN	0	0	491.66	23.8	43.30	0	406.45	0
FEB	0	175.00	444.36	23.0	49.04	0	531.04	0
MARCH	0	0	487.01	167.7	59.30	0.35	139.51	0
APRIL	0	52.8	463.50	201.9	65.17	0	313.48	0
MAY	1342.78	0	470.25	97.9	60.43	0.35	348.48	0
JUNE	451.84	0	460.68	0	42.55	0	437.01	0
JULY	0	77.5	386.26	163.2	53.90	0	230.16	0
AUG	0	0	419.74	126.4	45.46	0	65.33	0
SEPT	0	92.0	452.10	46.2	26.08	11.94	141.11	0
OCT	0	80.0	118.42	0	62.95		25.56	0
NOV	0	0	161.40	0	13.13	0	26.00	0
DEC	0	0	426.87	0	55.60	.23	73.58	0

*Main Circ Only

	001H Cond Sea Wtr Demin	001I Sea Evap Blowdown	001J Cond Pump Disch	001K Cond Tube Leak Det	00L Steam Gen Blowdown	002 Intake Sump	003 Screen Wash Intake	004 Thermal Effects Lab	005 Yard Storm Drains
1982	x10 ³ gal	x10 ³ gal	x10 ³ gal	x10 ³ gal	x10 ³ gal	x10 ³ gal	x10 ³ gal	x10 ⁶ gal	x10 ³ gal
JAN	0	0	0	0	0	85.5	0	25.00	0
FEB	0	0	0	0	0	37.8	9.48	22.58	0
MARCH	0	0	0	0	0	49.5	10.88	25.00	0
APRIL	67.90	0	0	0	0	144.3	8.66	24.19	YES
MAY	0	0	0	0	0	217.5	10.18	25.00	0
JUNE	0	0	0	0	0	206.1	0	24.19	YES
JULY	0	0	0	0	0	33.6	43.68	25.00	0
AUG	0	0	0	0	0	16.8	0.05	25.00	YES
SEPT	0	0	0	0	0	14.7	58.50	24.19	YES
OCT	0	0	0	0	0	20.4	0.20	25.00	YES
NOV	0	0	0	0	0	33.3	0.05	24.19	YES
DEC	0	0	0	0	0	67.6	8.28	25.00	0

DIABLO CANYON POWER PLANT
 NPDES DATA: ANNUAL SUMMARY
 INTAKE COVE SEAWATER INTAKE

SYSTEM: Intake/Drains
 UNIT: Common System
 POINT: Intake Cove

Parameter:	pH	Turbidity			
High Limit:					
Low Limit:					
Units:		NTU			
1/25/82 11:11	8.00	.20			
2/ 5/82 09:40	8.00	.45			
3/10/82 09:30	7.80	.46			
4/ 1/82 09:18	8.00	.75			
5/ 5/82 09:50	7.84	.65			
6/ 2/82 10:15	7.90	.95			
7/ 1/82 09:05	7.99	.31			
8/ 2/82 09:00	7.91	.22			
9/ 1/82 08:30	7.83	1.00			
10/ 8/82 08:52	7.90	1.00			
10/29/82 21:40	7.80				
10/30/82 15:16	8.10				
11/ 1/82 09:12	8.00	.45			
11/ 3/82 23:11	7.76				
11/12/82 19:01	7.70				
11/15/82 19:02	7.80				
11/16/82 19:10	7.80				
11/23/82 00:18	7.90				
12/ 1/82 19:25	8.00	16.00			
12/ 4/82 12:57	7.81				
12/ 7/82 22:20	7.74				
12/11/82 12:05	8.13				
12/14/82 20:54	7.95				
12/15/82 20:40	7.96				
12/18/82 00:36	8.12				
12/20/82 19:05	7.74				
12/20/82 20:04	7.74				

DIABLO CANYON POWER PLANT
NPDES DATA: ANNUAL SUMMARY
INTAKE COVE SEAWATER INTAKE

Page 2 of 15

SYSTEM: Intake/Drains
UNIT: Common System
POINT: Intake Cove

Parameter:	NonFiltRes	Grease/Oil			
High Limit:		10.00			
Low Limit:					
Units:	mg/l	mg/l			
1/ 4/82 08:27		< 5.00			
1/ 6/82 08:35	3.00				
1/ 8/82 08:31		< 3.00			
1/18/82 08:40		< 3.00			
1/25/82 11:11	2.00	< 3.00			
2/ 5/82 09:40	1.00	< 3.00			
3/10/82 09:30	1.00	< 3.00			
4/ 1/82 09:18	6.00	< 3.00			
5/ 5/82 09:50		< 3.00			
5/ 6/82 09:01	< 1.00	< 3.00			
6/ 2/82 10:15	17.30	< 3.00			
7/ 1/82 09:05	< 1.00	< 3.00			
8/ 2/82 09:00	1.10	< 3.00			
9/ 1/82 08:30	2.60	< 3.00			
10/ 8/82 08:52	< 1.00	< 3.00			
11/ 1/82 09:12	< 1.00	< 3.00			
12/ 1/82 19:25	4.00	< 3.00			

SYSTEM: Intake/Drains
UNIT: Common System
POINT: Intake Cove

Parameter:	NH ₃ as N	Cyanide			
High Limit:	.100	.005			
Low Limit:					
Units:	mg/l	mg/l			
4/ 1/82 09:18	.041				
4/ 1/82 09:18	.041				
7/ 1/82 09:05	.062				
10/ 8/82 08:52	.054	< .020			
11/ 1/82 09:12	.070				
12/ 1/82 19:25	.061				

005

INTAKE COVE SEAWATER INTAKE

SYSTEM: Intake/Drains
UNIT: Common System
POINT: Intake Cove

Parameter:	Cu	Total Cr	Cadmium	Lead	
High Limit:					
Low Limit:					
Units:	mg/l	mg/l	mg/l	mg/l	
1/25/82 11:11	< .001				
2/ 2/82 09:30		.002			
2/ 9/82 09:00			< .001	.003	
2/ 9/82 09:00	< .001				
3/10/82 09:30	< .001				
3/27/82 13:00		.004			
3/29/82 09:32		.003			
4/ 1/82 09:18		.001	.001	.009	
4/ 1/82 09:18	.001	.001			
5/ 5/82 09:50	.002			.005	
6/ 2/82 10:15	.002				
7/ 1/82 09:05	.001	.007	< .001	.002	
7/26/82 08:56		< .001			
8/ 2/82 09:00	.001	< .001			
8/12/82 08:33		< .001			
8/20/82 09:00		< .001			
9/ 1/82 08:30	.001	< .001	< .001	.008	
10/ 8/82 08:52	.001	< .001	.001	.001	
11/ 1/82 09:12	.001	< .001			
12/ 1/82 19:25	.001	< .001			

DIABLO CANYON POWER PLANT
 NPDES DATA: ANNUAL SUMMARY
 INTAKE COVE SEAWATER INTAKE

SYSTEM: Intake/Drains
 UNIT: Common System
 POINT: Intake Cove

Parameter:	Mercury	Silver	Zn	Ni	
High Limit:					
Low Limit:					
Units:	mg/l	mg/l	mg/l	mg/l	
1/25/82 11:11			.003		
2/ 9/82 09:00				.001	
2/ 9/82 09:00			.004		
3/10/82 09:30			.014	.002	
4/ 1/82 09:18				.001	
4/ 1/82 09:18			.004	.001	
5/ 5/82 09:50			.005	.001	
6/ 2/82 10:15			.007		
7/ 1/82 09:05			.007	.002	
8/ 2/82 09:00			.001		
9/ 1/82 08:30			.004	.001	
10/ 8/82 08:52	< .00020	< .00200	.012	.001	
11/ 1/82 09:12			.009	< .001	
12/ 1/82 19:25			.007	.002	

DIABLO CANYON POWER PLANT
NPDES DATA: ANNUAL SUMMARY
DISCHARGE 001 - ONCE THROUGH COOLING WATER DISCHARGE

SYSTEM: Outfall
UNIT: Common System
POINT: Discharge 001

Parameter:	pH	Turbidity			
High Limit:	9.00				
Low Limit:	6.00				
Units:		NTU			
1/25/82 11:20	8.00	2.30			
2/ 5/82 09:49	8.10	.45			
3/10/82 09:39	7.90	.45			
4/ 1/82 09:27	8.00	.78			
5/ 5/82 09:59	7.89	.61			
6/ 2/82 10:25	7.90	.58			
7/ 1/82 09:14	8.01	.44			
8/ 2/82 09:09	7.91	.27			
9/ 1/82 08:39	7.95	.60			
10/ 8/82 09:01	7.90	1.20			
11/ 1/82 10:45	8.03	.90			
11/ 3/82 23:40	7.78				
11/12/82 19:01	7.70				
11/15/82 19:02	7.80				
11/16/82 19:10	7.80				
12/ 1/82 19:31	8.00	16.00			
12/ 4/82 13:04	7.94				
12/ 7/82 22:28	7.62				
12/11/82 12:10	8.12				
12/14/82 21:02	7.96				
12/15/82 20:45	7.91				
12/18/82 00:36	8.12				
12/20/82 19:12	7.74				
12 20 82 20:11	7.76				

DIABLO CANYON POWER PLANT
NPDES DATA: ANNUAL SUMMARY

DISCHARGE 001 - ONCE THROUGH COOLING WATER DISCHARGE

SYSTEM: Outfall
UNIT: Common System
POINT: Discharge 001

Parameter:	NonFlt Res	Grease/Oil			
High Limit:		10.0			
Low Limit:					
Units:	mg/l	mg/l			
1/25/82 11:20	21.00	< 3.0			
2/ 5/82 09:49	2.00	4.0			
3/10/82 09:39	2.00	< 3.0			
4/ 1/82 09:27	1.00	< 3.0			
4/ 8/82 11:55		3.0			
5/ 5/82 09:59		< 3.0			
5/ 6/82 09:10	1.50	< 3.0			
6/ 2/82 10:25	6.30	< 3.0			
6/11/82 09:00	< 1.00				
7/ 1/82 09:14	< 1.00	< 3.0			
8/ 2/82 09:09	1.00	< 3.0			
9/ 1/82 08:39	2.00	< 3.0			
10/ 8/82 09:01	3.00	< 3.0			
11/ 1/82 10:45	< 1.00	3.0			
12/ 1/82 19:31	10.00	< 3.0			

SYSTEM: Outfall
UNIT: Common System
POINT: Discharge 001

Parameter:	Hydrazine	Dissolve O	B		
High Limit:					
Low Limit:					
Units:	mg/l	mg/l	mg/l		
1/26/82 08:59		8.8	8.8		
2/ 9/82 09:09			1.2		
3/25/82 09:41			4.7		
4/ 1/82 09:27		8.6	4.7		
7/ 1/82 09:14	< .001	8.6	4.9		
7/15/82 09:55	< .003				
10/ 8/82 09:01	< .002	8.1	4.5		
11/ 1/82 10:45	< .002	7.4	6.2		
12/ 1/82 19:31	.012	10.0	6.9		

DIABLO CANYON POWER PLANT
NPDES DATA: ANNUAL SUMMARY

DISCHARGE 001 - ONCE THROUGH COOLING WATER DISCHARGE

SYSTEM: Outfall
UNIT: Common System
POINT: Discharge 001

Parameter:	Cu	Total Cr	Cadmium	Lead	
High Limit:	.020	.002	.003	.008	
Low Limit:					
Units:	mg/l	mg/l	mg/l	mg/l	
1/25/82 11:20	.001				
1/26/82 08:59		.001	< .001	.004	
2/ 2/82 09:39		.001			
2/ 9/82 09:09			< .001	.003	
2/ 9/82 09:09 <	.001				
3/10/82 09:39 <	.001				
3/27/82 13:09		.011			
3/29/82 09:41		.003			00S
4/ 1/82 09:27	.001	< .001	.002	.009	00S
5/ 5/82 09:59	.001			.005	00S
6/ 2/82 10:25	.001				
7/ 1/82 09:14	.001	.005	< .001	.001	00S
8/ 2/82 09:09 <	.001	< .001			
8/12/82 08:41		< .001			
8/20/82 09:09		< .001			
9/ 1/82 08:39	.018	< .001	< .001	.001	
10/ 8/82 09:01	.001	< .001	< .001	.001	
11/ 1/82 10:45	.001	.001			
12/ 1/82 19:31	.001	< .001			

SYSTEM: Outfall
UNIT: Common System
POINT: Discharge 001

Parameter:	ClPest/PCB	Cyanide	NH ₃ as N	
High Limit:	.002	.005	.100	
Low Limit:				
Units:	mg/l	mg/l	mg/l	
1/26/82 08:59			.050	
4/ 1/82 09:27			.078	
7/ 1/82 09:14			.056	
10/ 8/82 09:01 <	.001	< .020	< .020	00S
11/ 1/82 10:45			.079	
12/ 1/82 19:31			.065	

DIABLO CANYON POWER PLANT
NPDES DATA: ANNUAL SUMMARY

DISCHARGE 001 - ONCE THROUGH COOLING WATER DISCHARGE

SYSTEM: Outfall
UNIT: Common System
POINT: Discharge 001

Parameter:	Mercury	Silver	Ni	Zn	
High Limit:	.00056	.00045	.000	.000	
Low Limit:					
Units:	mg/l	mg/l	mg/l	mg/l	
1/25/82 11:20				.005	
1/26/82 08:59			.001		
2/ 9/82 09:09			.001		
2/ 9/82 09:09				.009	
3/10/82 09:39			.001		
3/10/82 09:39				.008	
4/ 1/82 09:27			.002	.005	
5/ 5/82 09:59			.001	.002	
6/ 2/82 10:25				.003	
7/ 1/82 09:14			.001	.002	
8/ 2/82 09:09				.001	
9/ 1/82 08:39			.003	.007	
10/ 8/82 09:01	.00020	< .00050	.001	.004	005
11/ 1/82 10:45			.001	.006	
12/ 1/82 19:31			.002	.011	

SYSTEM: Outfall
UNIT: Common System
POINT: Discharge 001

Parameter:	Arsenic	Titanium			
High Limit:	.008				
Low Limit:					
Units:	mg/l	mg/l			
4/ 1/82 09:27		< .010			
10/ 8/82 09:01	< .001	< .010			

DIABLO CANYON POWER PLANT
NPDES DATA: ANNUAL SUMMARY
DISCHARGE 001C - MAKE UP WATER SYSTEM WASTE

SYSTEM: Make Up Demineralizer
UNIT: Common System
POINT: Regenerant Discharge 001C

Parameter:	Grease/Oil	NonFiltRes			
High Limit:	15.00	100.00			
Low Limit:					
Units:	mg/l	mg/l			
1/11/82 18:03 <	3.00				
1/12/82 18:00 <	3.00				
1/17/82 13:37 <	3.00				
2/18/82 15:15 <	3.00	24.00			
2/19/82 12:35 <	3.00	4.00			
3/ 8/82 03:35 <	3.00	24.00			
3/15/82 13:00 <	3.00	3.00			
3/16/82 04:52 <	3.00	2.00			
4/ 2/82 20:00 <	3.00	2.00			
4/ 7/82 13:30 <	3.00 <	1.00			
4/29/82 14:41 <	3.00				
5/ 2/82 10:20 <	3.00				
5/ 3/82 08:50 <	3.00				
5/ 5/82 10:30 <	3.00	10.00			
5/ 8/82 20:35	12.60	1.50			
6/25/82 09:45 <	3.00	44.00			
6/25/82 16:30 <	<	1.00			
6/26/82 06:40 <	3.00	23.00			
7/ 3/82 11:52 <	3.00	44.00			
7/ 5/82 03:45		3.00			
7/ 6/82 09:00 <	3.00				
7/21/82 11:30		72.00			
7/21/82 13:00		2.00			
7/23/82 02:00 <	3.00 <	1.00			
7/23/82 22:15 <	3.00	51.00			
7/27/82 12:08 <	3.00	2.60			
8/ 9/82 11:15	<	1.00			
8/10/82 01:00 <	3.00	28.00			
8/10/82 20:00 <	3.00	21.00			
8/11/82 13:30 <	3.00	21.00			
9/ 2/82 03:23 <	3.00	2.40			

DIABLO CANYON POWER PLANT
NPDES DATA: ANNUAL SUMMARY
DISCHARGE 001D - LIQUID RADWASTE SYSTEM

SYSTEM: NPDES
UNIT: Common System
POINT: 001D LRW

Parameter:	NONFILTRES	GREASE/OIL			
High Limit:	30.0	15.0			
Low Limit:					
Units:	MG/L	MG/L			
1/25/82 03:40	16.0	< 3.0			
2/18/82 00:00	4.0				
3/29/82 00:00	8.0	3.0			
4/22/82 00:00	3.0	< 3.0			
5/14/82 00:00	6.0				
6/23/82 13:05	3.0	< 3.0			
7/ 2/82 06:25	5.0	3.0			
7/20/82 09:30	1.0	< 3.0			
8/ 2/82 08:50		< 3.0			
8/ 5/82 17:30	8.0	< 3.0			
9/24/82 02:10	6.0				
10/ 5/82 08:40	4.0				
10/ 6/82 08:22		< 3.0			
10/19/82 09:25	4.0	< 3.0			
11/29/82 11:00	3.0	< 3.0			
12/ 1/82 00:00	3.0				
12/23/82 08:10	22.0				

DISCHARGE 001D - LIQUID RADWASTE
COMPOSITE DATA

SYSTEM: NPDES
UNIT: Common System
POINT: 001D LRW

Parameter:	CADMIUM	CHROMIUM	Copper	LEAD	
High Limit:					
Low Limit:					
Units:	MG/L	MG/L	MG/L	MG/L	
4/21/82 00:00	.002	.006	.012	.035	
7/14/82 00:00	.002	.006	.049	.020	
10/ 2/82 00:00	.004	.116	.030	.007	
12/31/82 00:00	.003	.006	.013	.013	

DIABLO CANYON POWER PLANT
NPDES DATA: ANNUAL SUMMARY

DISCHARGE 001 D - LIQUID RADWASTE SYSTEM COMPOSITE

SYSTEM: NPDES
UNIT: Common System
POINT: 001D LRW

Parameter:	MERCURY	NICKEL	ZINC	SILVER	
High Limit:					
Low Limit:					
Units:	MG/L	MG/L	MG/L	MG/L	
4/21/82 00:00	.0270	.026	.349	.0340	
7/14/82 00:00	.0590	.043	.332	.0010	<
10 2 82 00:00	.0230	.091	.042	.0070	
12 31 82 00:00	.0050	.019	.539	.0080	

DIABLO CANYON POWER PLANT
NPDES DATA: ANNUAL SUMMARY

DISCHARGE 001 D - LIQUID RADWASTE SYSTEM COMPOSITE

SYSTEM: NPDES
UNIT: Common System
POINT: 001D LRW

Parameter:	LITHIUM	BORON	HYDRAZINE		
High Limit:					
Low Limit:					
Units:	MG/L	MG/L	MG/L		
1/25/82 03:40	.025				
4/22/82 00:00 <	.001				
6/23/82 13:05	.013				
7/20/82 09:30	.001				
8/ 2/82 08:50	.009				
10/ 5/82 08:40	.005				
10/19/82 09:25	.007				
10/28/82 10:12	.002	2,065.000 <	.002		
10/30/82 05:00	.005	2.800	.007		
11/ 3/82 00:50	.008	.500	.006		
11/ 6/82 06:34	.005	23.000	.026		
11/12/82 12:50	.007	90.000	.200		
11/15/82 16:32	.014	54.000	.020		
11/16/82 08:20	.008 <	.500	.014		
11/19/82 15:30	.007	12.000	.050		
11/24/82 11:30	.005	88.000	.065		
11/24/82 22:45	.003	24.000	4.000		
11/29/82 08:30	.004	3.500	.013		
11/29/82 11:00	.001	325.000	.009		
11/30/82 18:30	.006	58.000	.003		
12/ 1/82 08:20	.012	98.000	.023		
12/ 3/82 22:15	.006	62.000	.032		
12/ 4/82 18:15	.004	1,593.000	.006		
12/ 6/82 06:15	.006	2,058.000	.005		
12/ 8/82 09:45	.012	8.000	.005		
12/13/82 15:30	.004	75.000	.170		
12/15/82 09:00	.004	900.000	.006		
12/16/82 04:48	.005	64.000 <	.002		
12/17/82 14:00	.006	2.000 <	.002		
12/20/82 11:30	.003	31.000	.010		
12/23/82 08:10	.009	255.000	.010		
12/29/82 08:24	.008	41.000	.004		
12/29/82 08:31	.011	80.000	.240		

DIABLO CANYON POWER PLANT
NPDES DATA: ANNUAL SUMMARY

DISCHARGE 001 D - TURB. BLDG SUMP - OILY WATER SEPARATOR

SYSTEM: Waste Pond and O.W.S.-Turbine Bld. Sump 001F
UNIT: Common System
POINT: O.W.S./Turb. Bld. Sump 001F

Parameter:	NonFiltRes	Grease/Oil			
High Limit:	30.00	15.00			
Low Limit:					
Units:	mg/l	mg/l			
1/ 7/82 14:30		< 3.00			
1/21/82 08:20		5.00			
1/25/82 08:20	5.00	5.00			
1/26/82 08:30	14.00	12.00			
1/28/82 08:30	18.00	4.00			
2/17/82 09:00	24.00	12.00			
2/24/82 09:00		< 3.00			
3/11/82 10:00	11.00	< 3.00			
3/25/82 08:30	7.00	3.00			
4/ 1/82 11:00		14.00			
4/ 1/82 11:01		12.00			
4/ 2/82 13:00	34.00	48.00			
4/19/82 08:35		< 3.00			
4/19/82 17:03		< 3.00			
4/20/82 15:00		< 3.00			
4/21/82 06:03		4.00			
4/21/82 08:20	22.00	5.00			
4/22/82 14:11	15.00	< 3.00			
4/26/82 08:20	11.00	< 3.00			
4/28/82 16:42	5.00	5.00			
4/29/82 11:12	15.00	< 3.00			
4/29/82 23:46	11.00				
5/ 1/82 18:30	19.00	3.00			
5/ 5/82 09:00	9.00	3.00			
5/ 6/82 08:30	8.00	< 3.00			
5/ 7/82 18:10		< 3.00			
5/20/82 08:25	6.00	< 3.00			
6/10/82 13:00	29.00	12.00			
6/16/82 13:59	17.00	< 3.00			
7/ 3/82 17:00	4.90	< 3.00			
7/10/82 20:30	8.60	< 3.00			
8/ 5/82 09:15	4.00	< 3.00			
11/ 1/82 09:05	15.00	3.00			
11/15/82 08:55	15.00	5.00			
12/ 6/82 11:40	6.10	< 3.00			

005

DIABLO CANYON POWER PLANT
NPDES DATA: ANNUAL SUMMARY
DISCHARGE 001 D - TURB. BLDG SUMP - OILY WATER SEPARATOR

SYSTEM: Waste Pond and O.W.S.-Turbine Bld. Sump 001F
UNIT: Common System
POINT: O.W.S./Turb. Bld. Sump 001F

Parameter:	Hg	Ni	Ag	Zn	
High Limit:					
Low Limit:					
Units:	mg/l	mg/l	mg/l	mg/l	
1/29/82 09:16		.004		.014	
4/ 2/82 15:00	.02500	.012 <	.001	.066	
7/ 2/82 11:15 <	.00020	.003 <	.001	.073	
11/ 5/82 09:00 <	.00020	.028 <	.001	.390	

SYSTEM: Waste Pond and O.W.S.-Turbine Bld. Sump 001F
UNIT: Common System
POINT: O.W.S./Turb. Bld. Sump 001F

Parameter:	Cd	Cr	Pb	Cu	
High Limit:				1.000	
Low Limit:					
Units:	mg/l	mg/l	mg/l	mg/l	
1/29/82 09:16	.001	.008	.006	.032	
2/ 5/82 00:00		.003			
4/ 2/82 15:00	.002	.001	.017	.063	
7/ 2/82 11:15	.002	.004	.001	.005	
11/ 5/82 09:00	.008	.018	.175	.020	

DIABLO CANYON POWER PLANT
NPDES DATA: ANNUAL SUMMARY
DISCHARGE 002 - INTAKE BLDG DRAINS

SYSTEM: Intake/Drains
UNIT: Common System
POINT: Intake Building Floor Drain 002

Parameter:	Grease&Oil				
High Limit:	15.0				
Low Limit:					
Units:	mg/l				
1/ 7/82 08:30	4.0				
1/14/82 09:00 <	3.0				
1/21/82 14:00 <	3.0				
1/28/82 09:40 <	3.0				
2/ 3/82 14:00 <	3.0				
4/ 1/82 09:10 <	3.0				
4/22/82 20:50 <	3.0				
5/18/82 08:50 <	3.0				
6/ 2/82 17:45 <	3.0				
7/ 1/82 09:40 <	3.0				
10/19/82 13:00 <	3.0				

DISCHARGE 005 - YARD STORM DRAIN RUNOFF

SYSTEM: Intake/Drains
UNIT: Common System
POINT: Yard Storm Drains 005

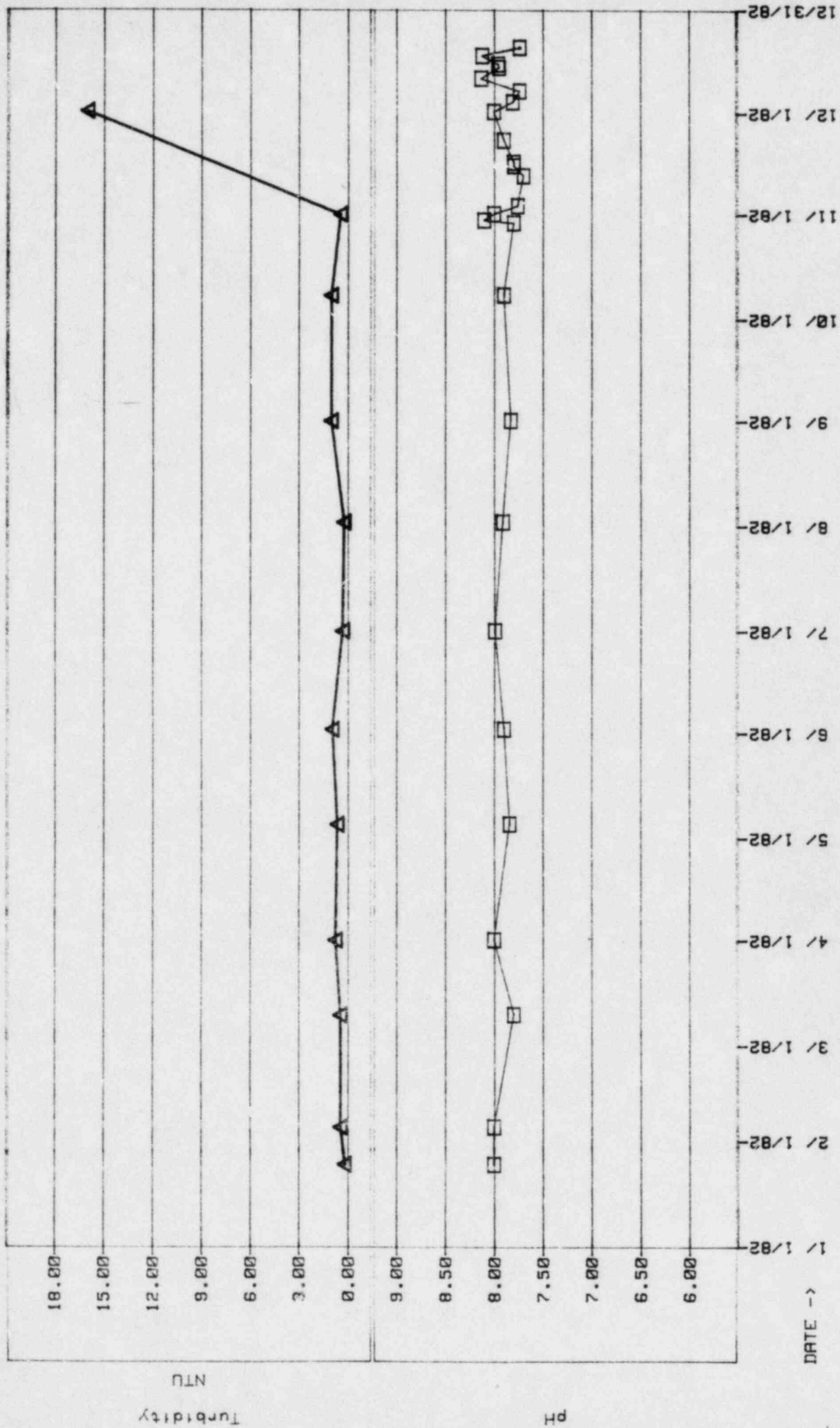
Parameter:	Grease/Oil				
High Limit:	5.00				
Low Limit:					
Units:	mg/l				
4/22/82 14:10 <	3.00				
6/29/82 16:45	3.00				
8/27/82 22:30	8.00				
9/15/82 20:00	6.00				
10/26/82 09:45 <	3.00				
10/30/82 12:10 <	3.00				
11/ 9/82 18:10	3.00				

OOS
OOS

PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

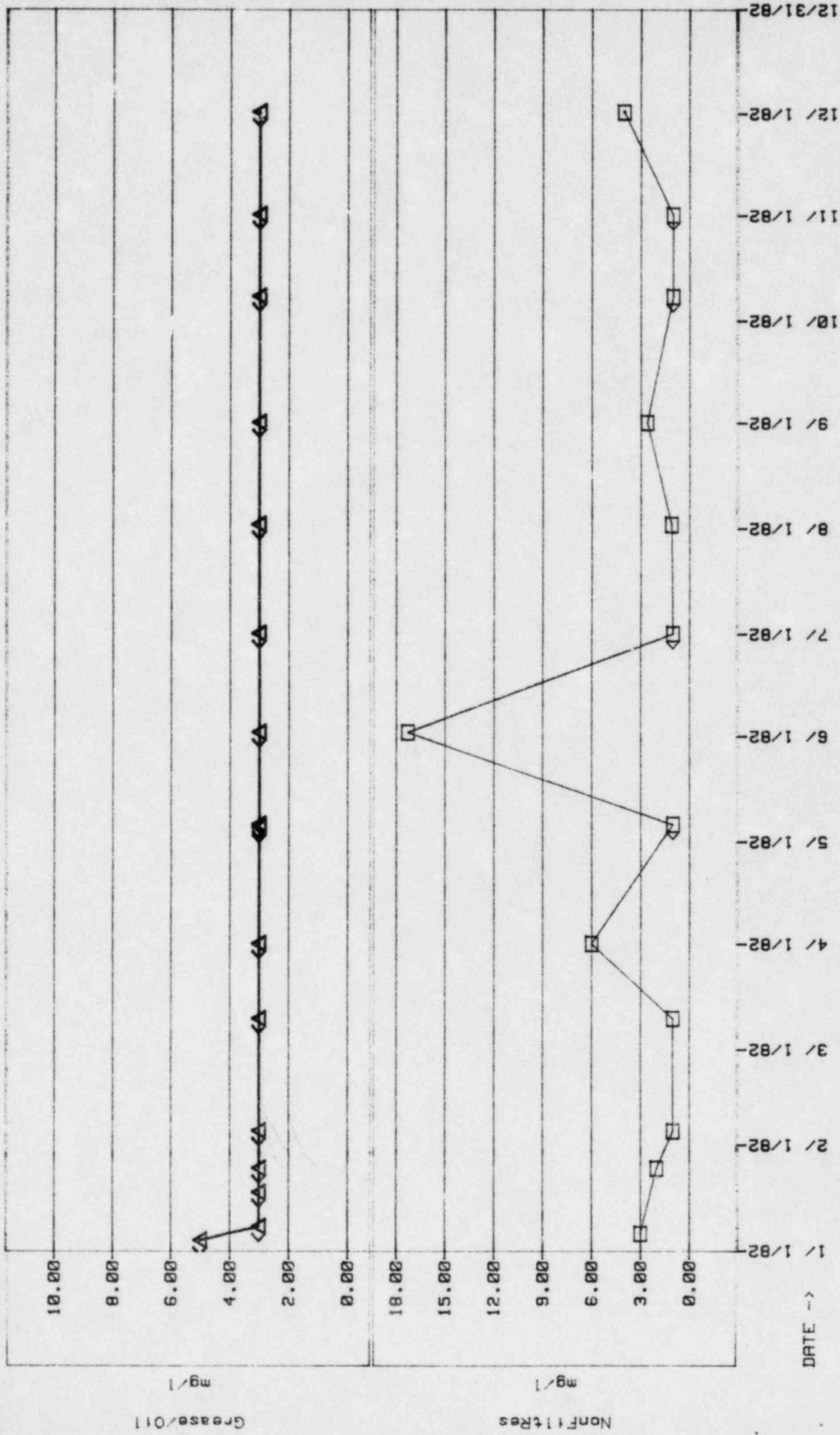
Intake/Drains - Intake Cove



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

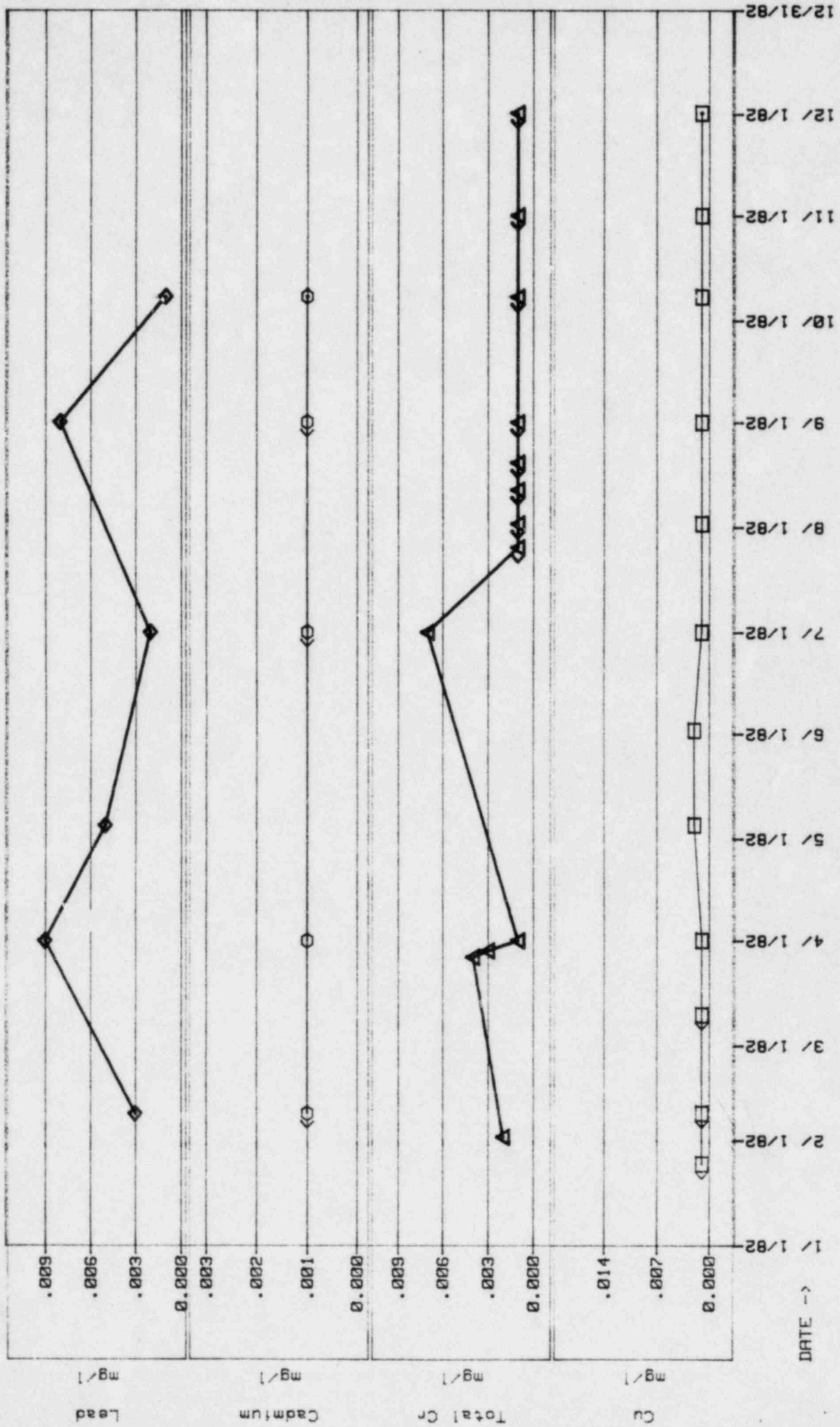
Intake/Drains - Intake Cove



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

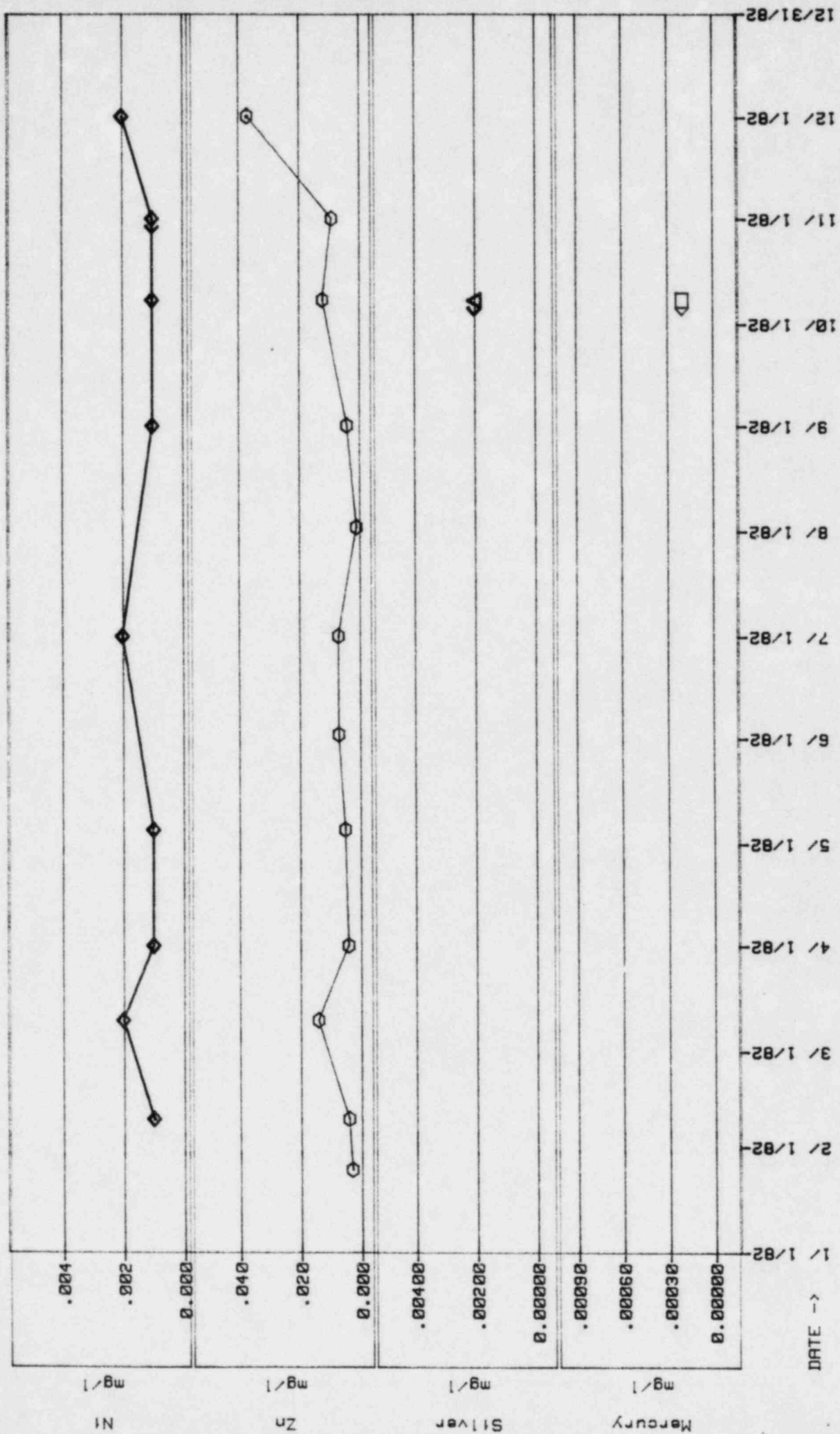
Intake/Drains - Intake Cave



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

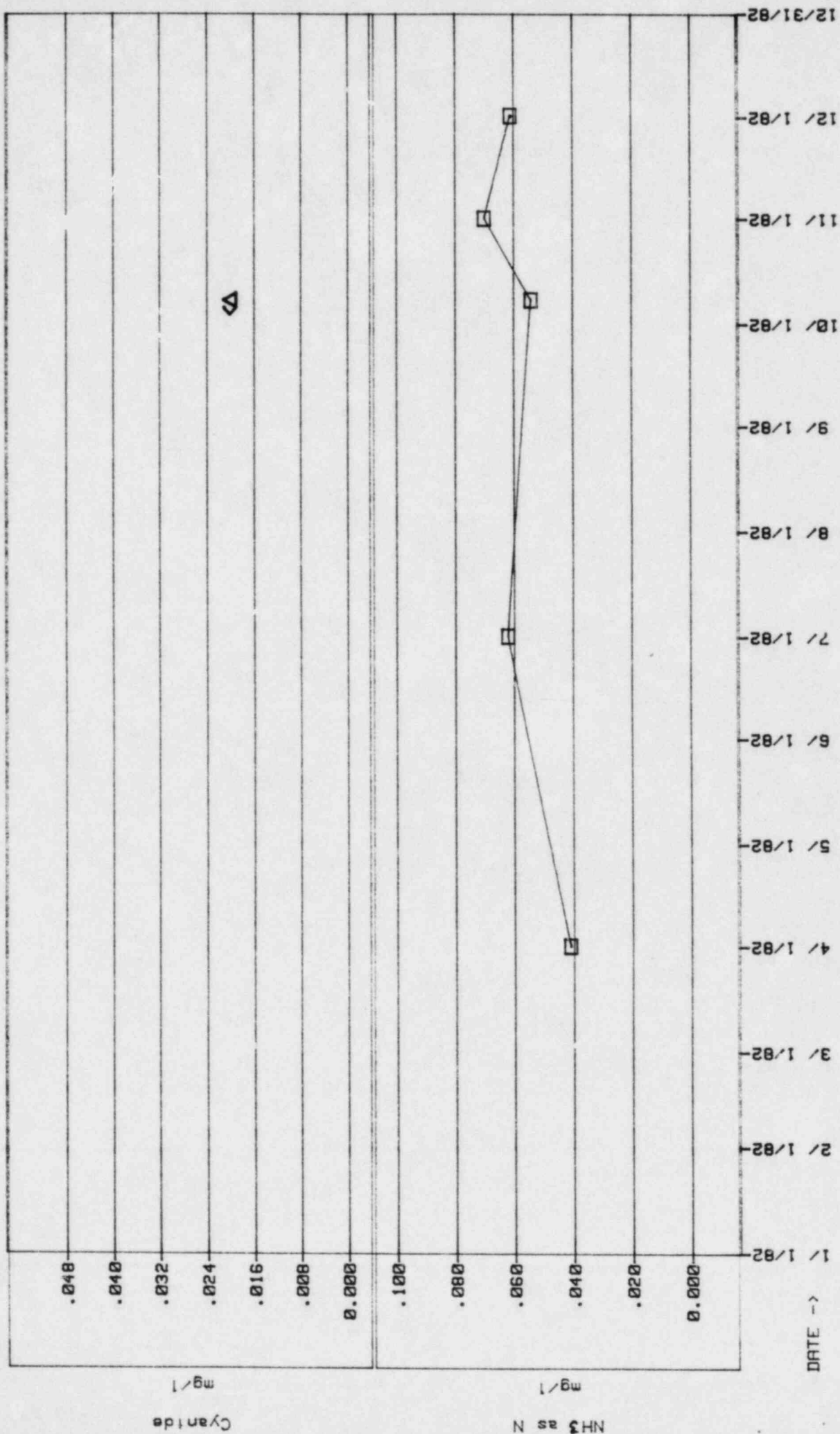
Intake/Drains - Intake Cove



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

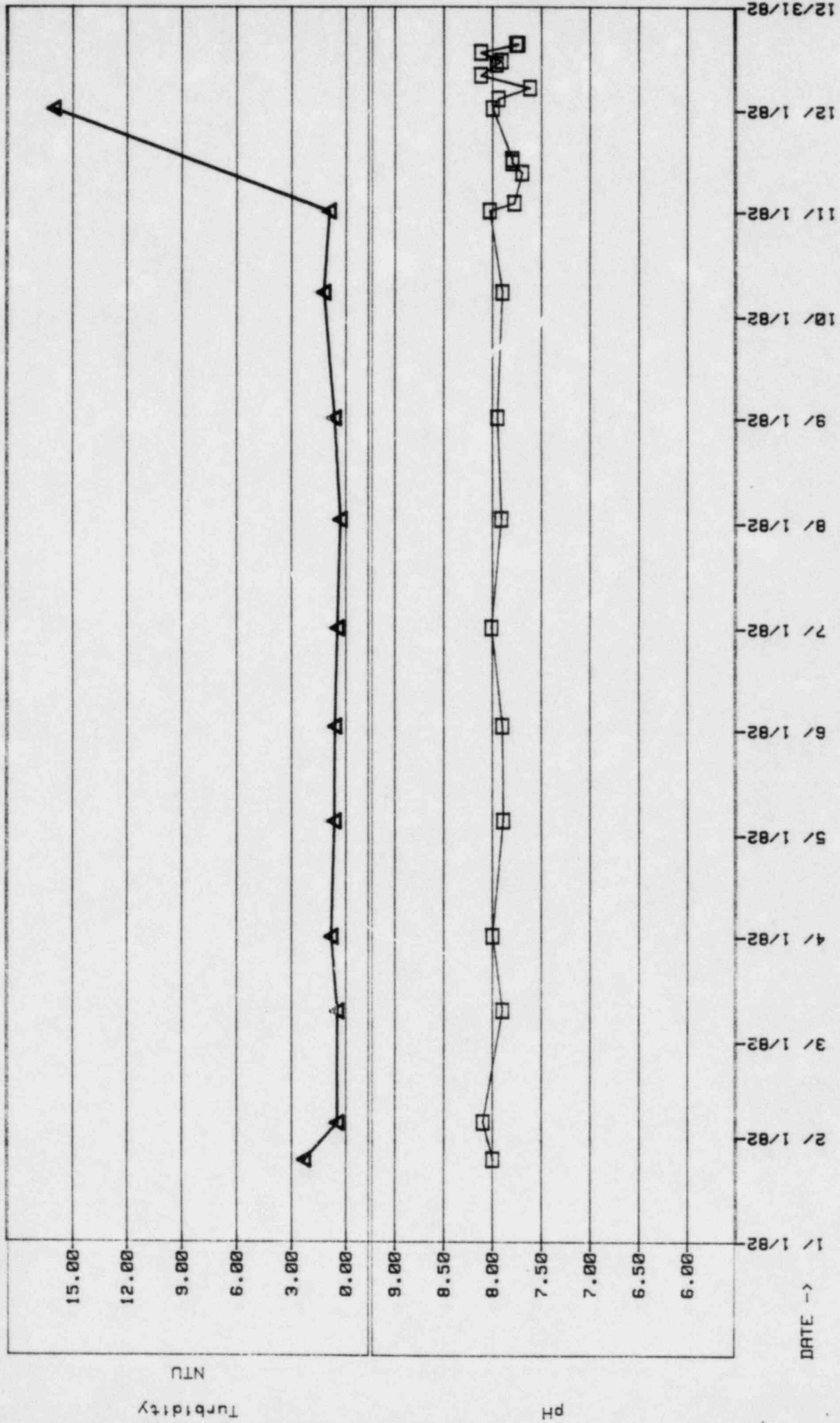
Intake/Drains - Intake Cove



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

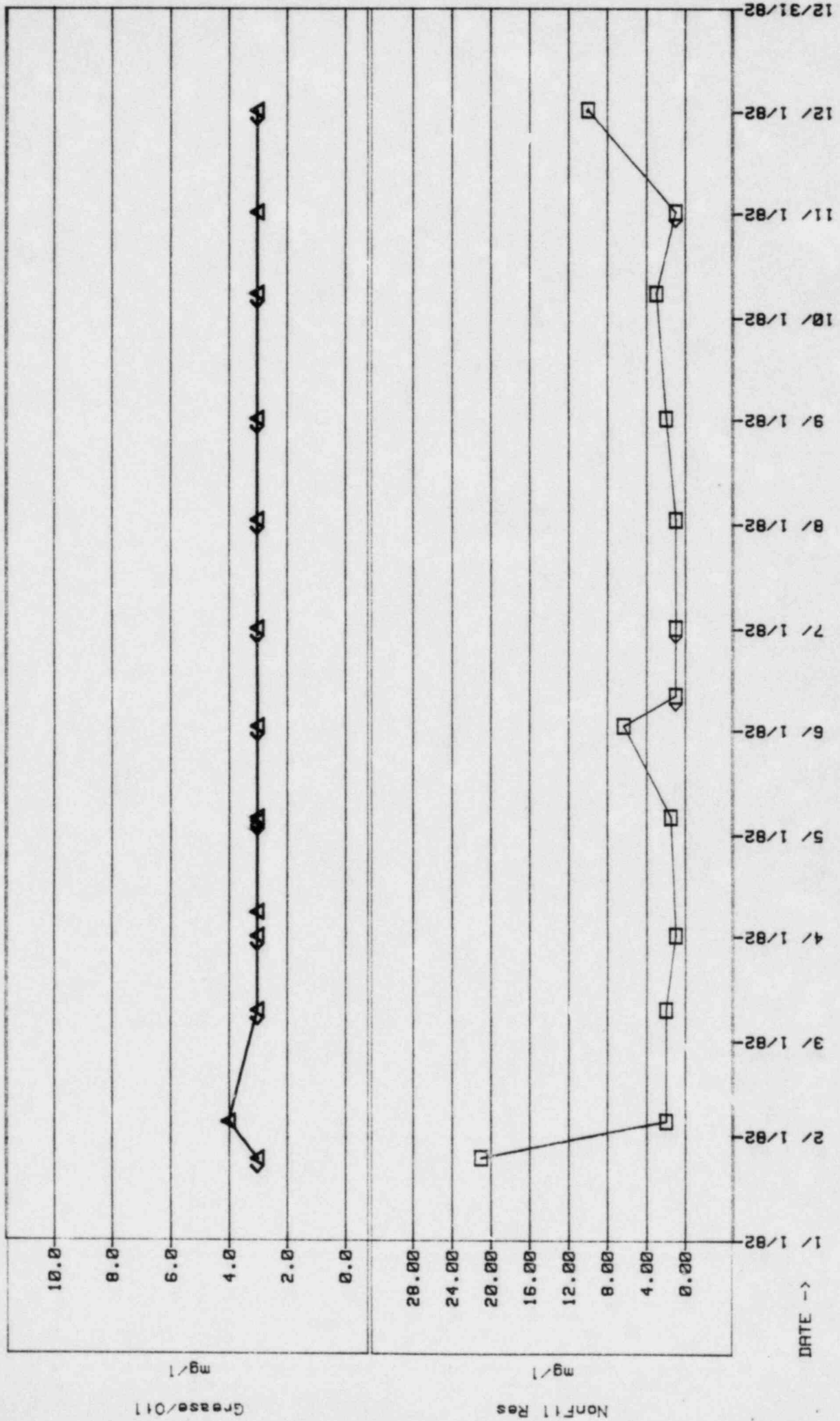
Outfall - Discharge 001



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

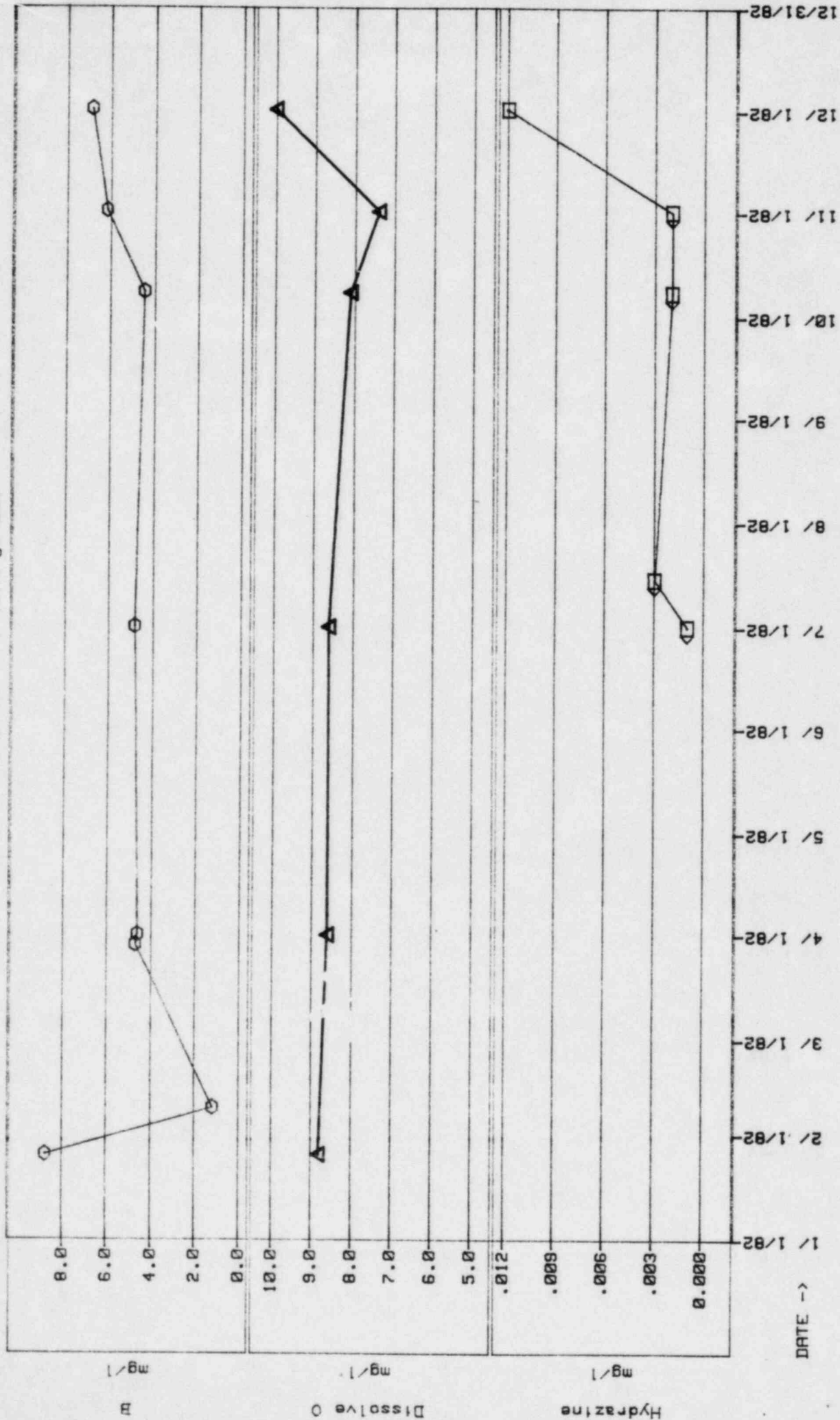
Outfall - Discharge 001



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

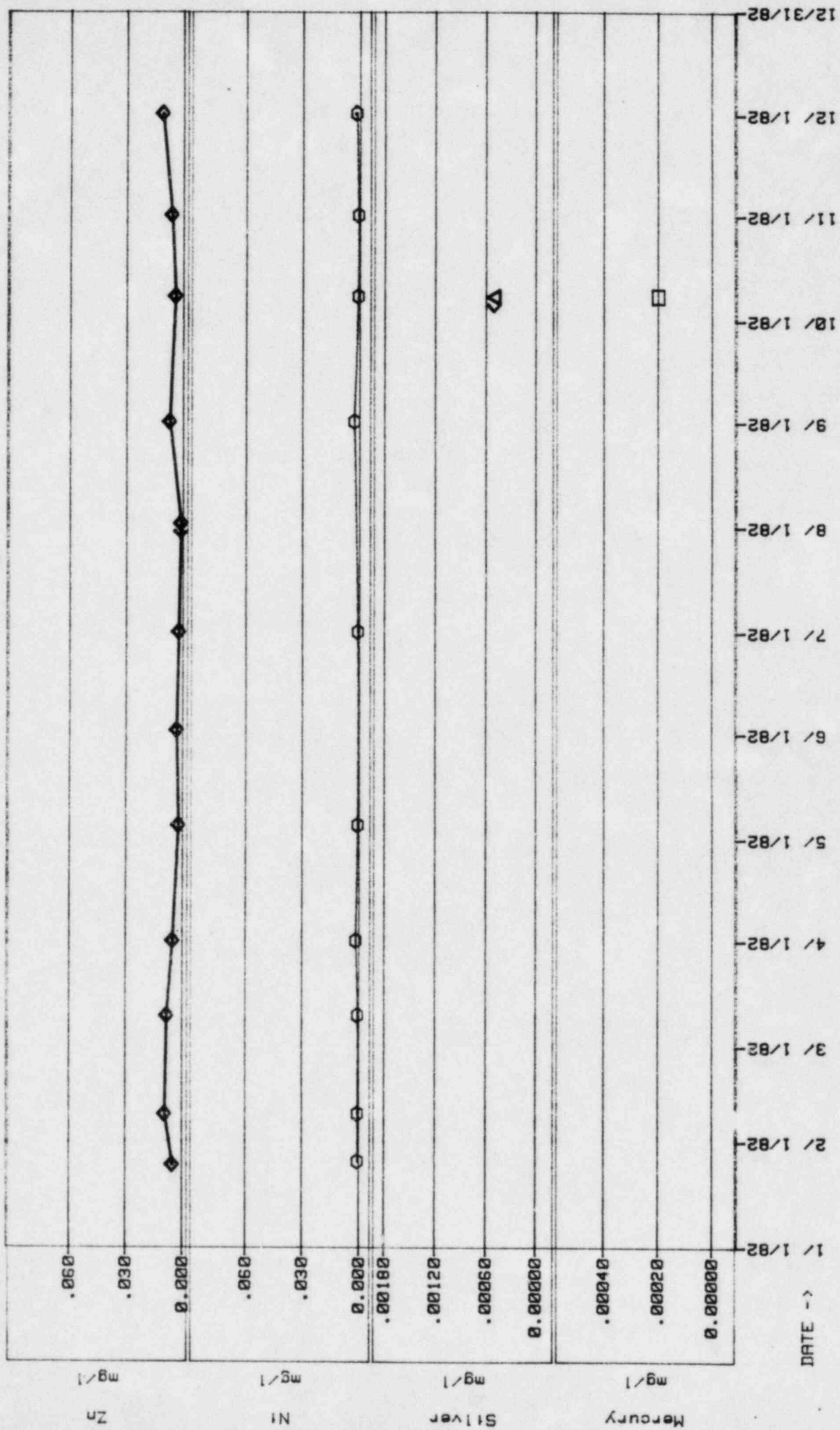
Outfall - Discharge 001



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

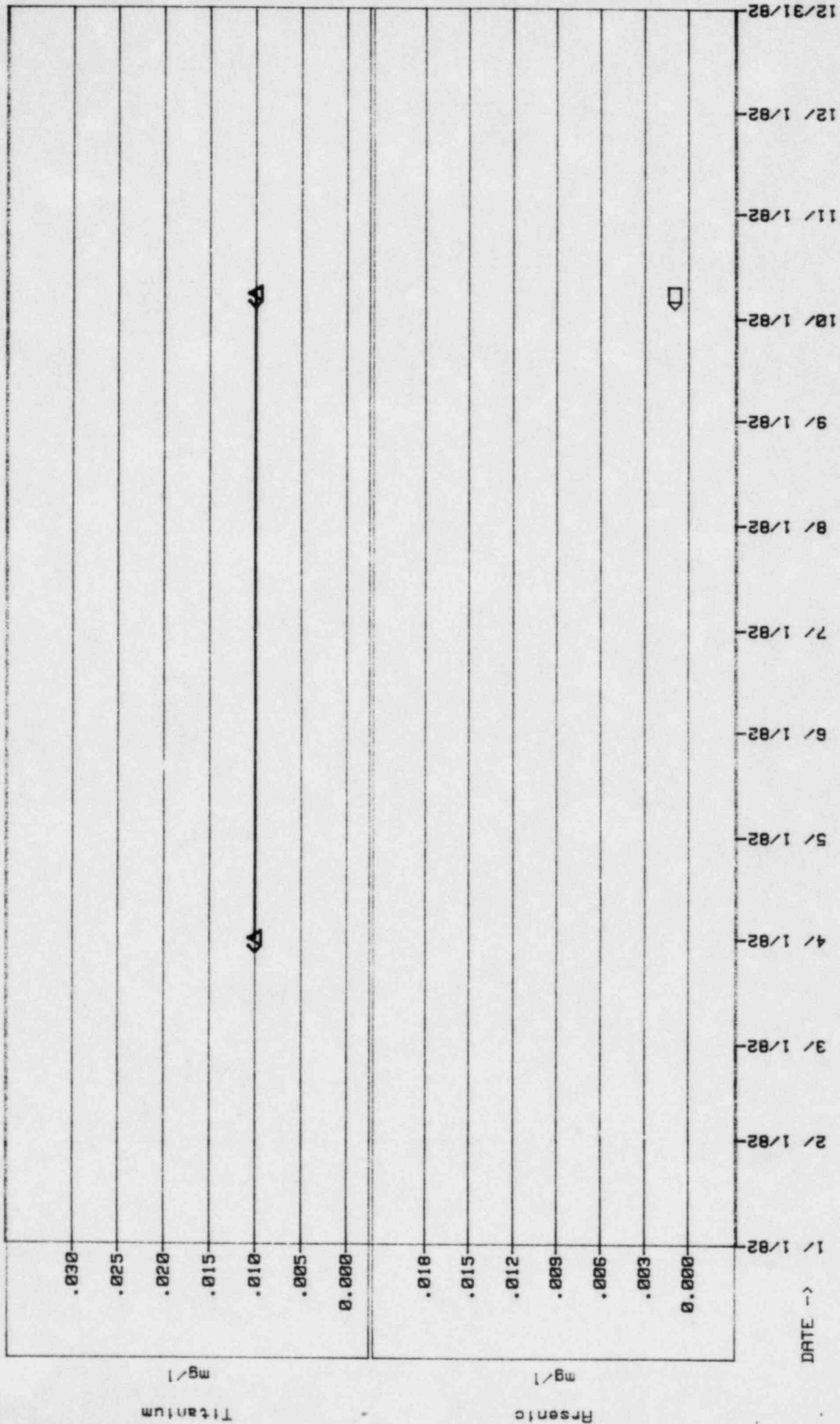
Outfall - Discharge 001



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

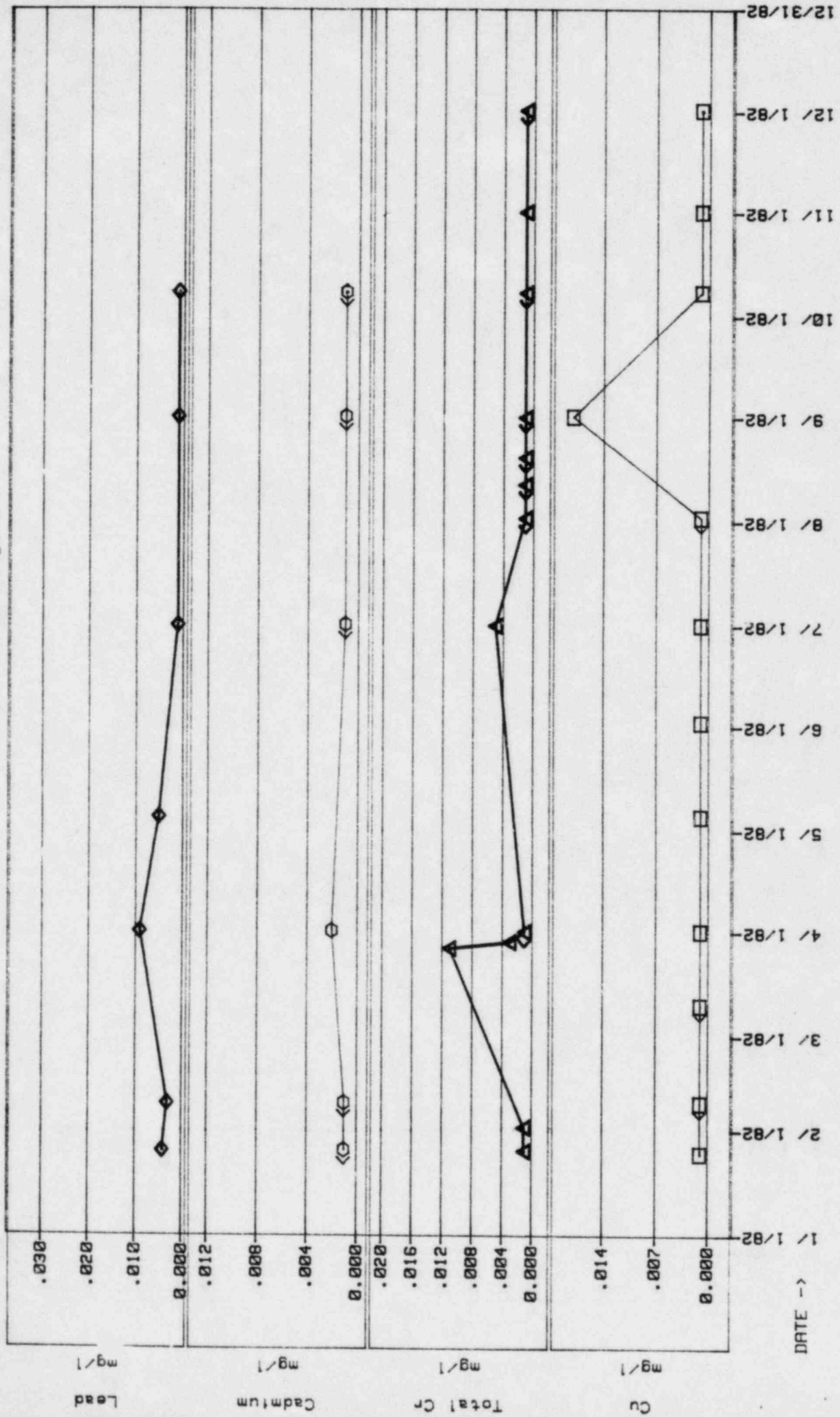
Outfall - Discharge 001



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

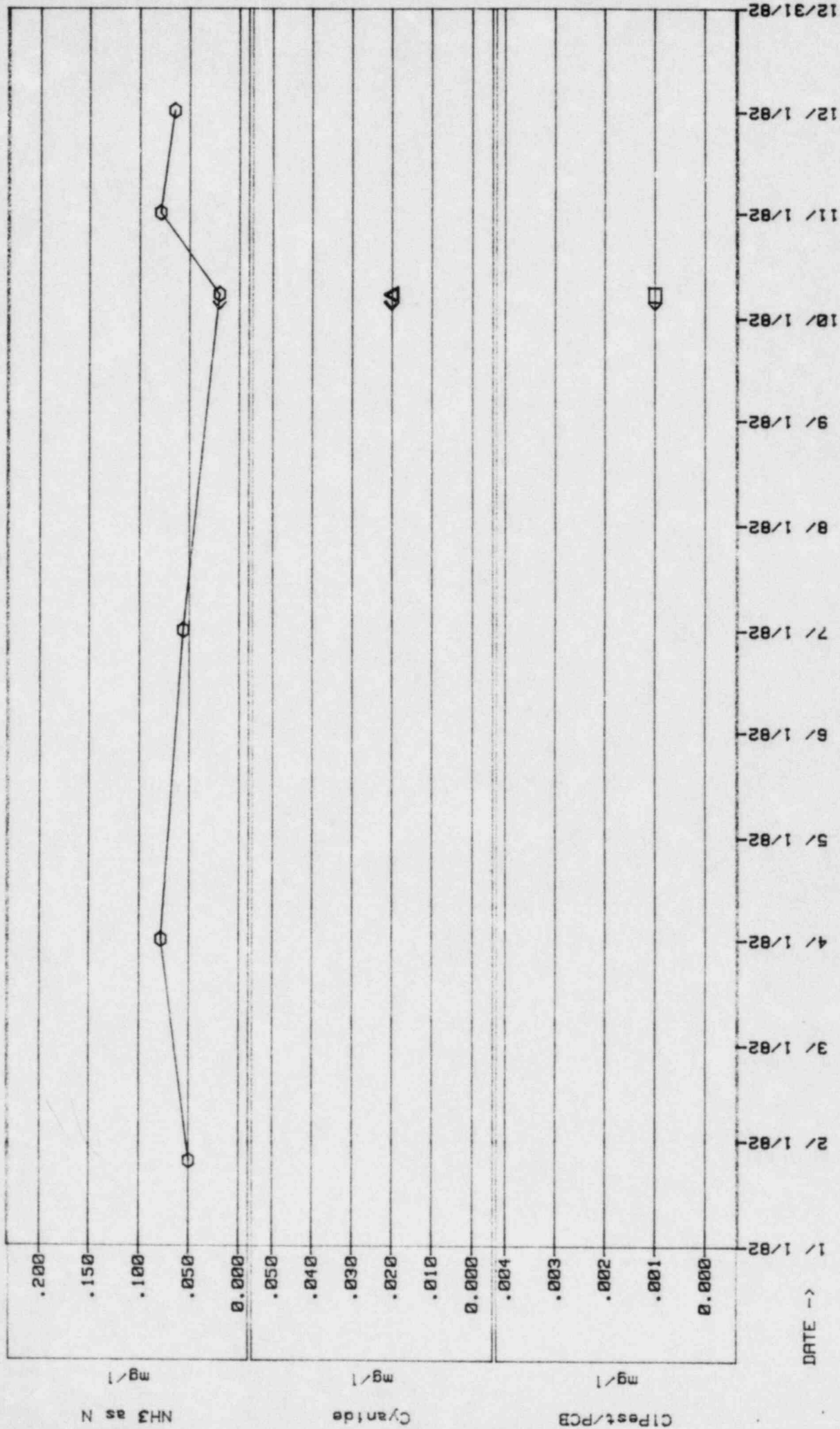
Outfall - Discharge 001



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

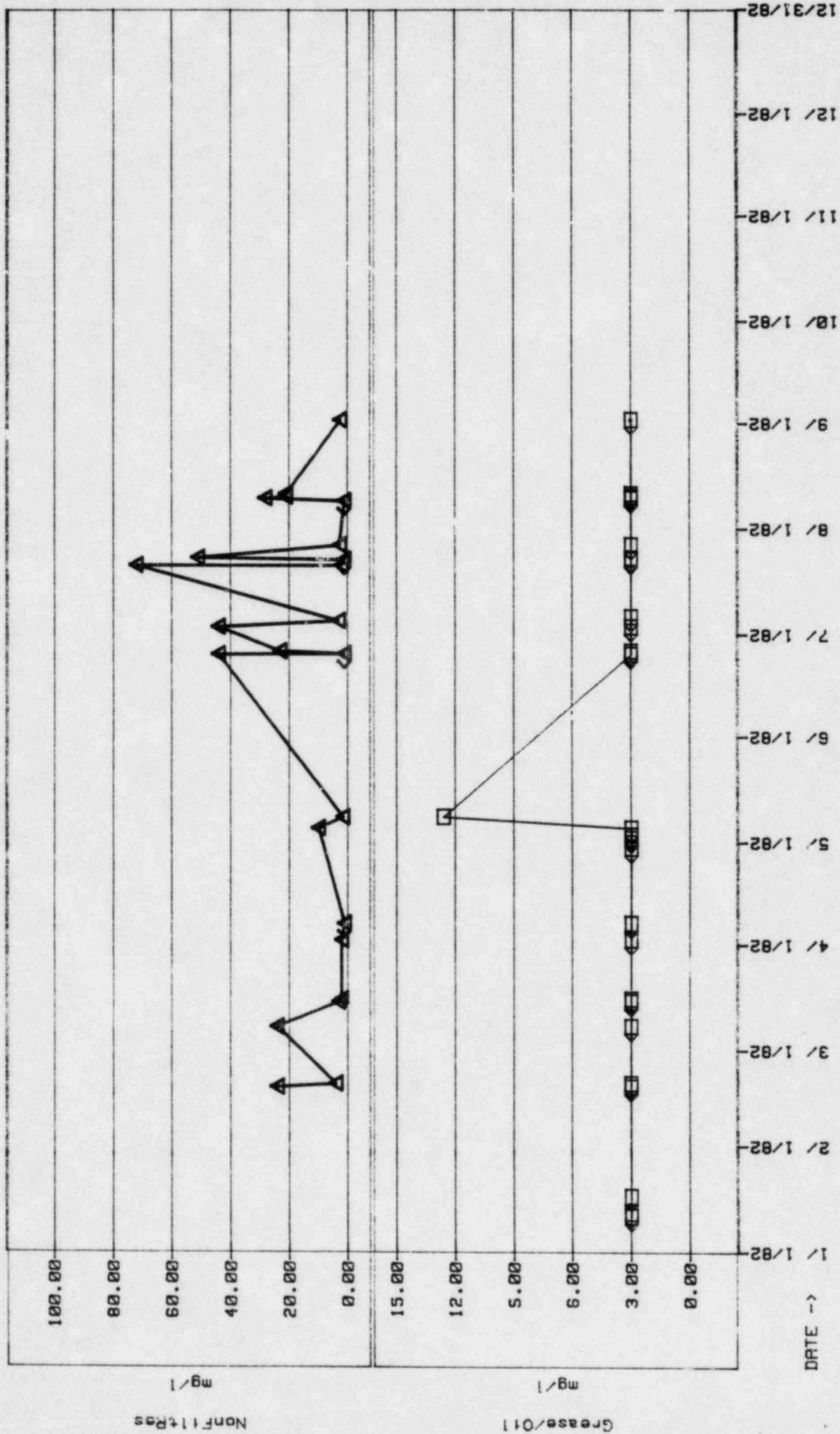
Outfall - Discharge 001



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

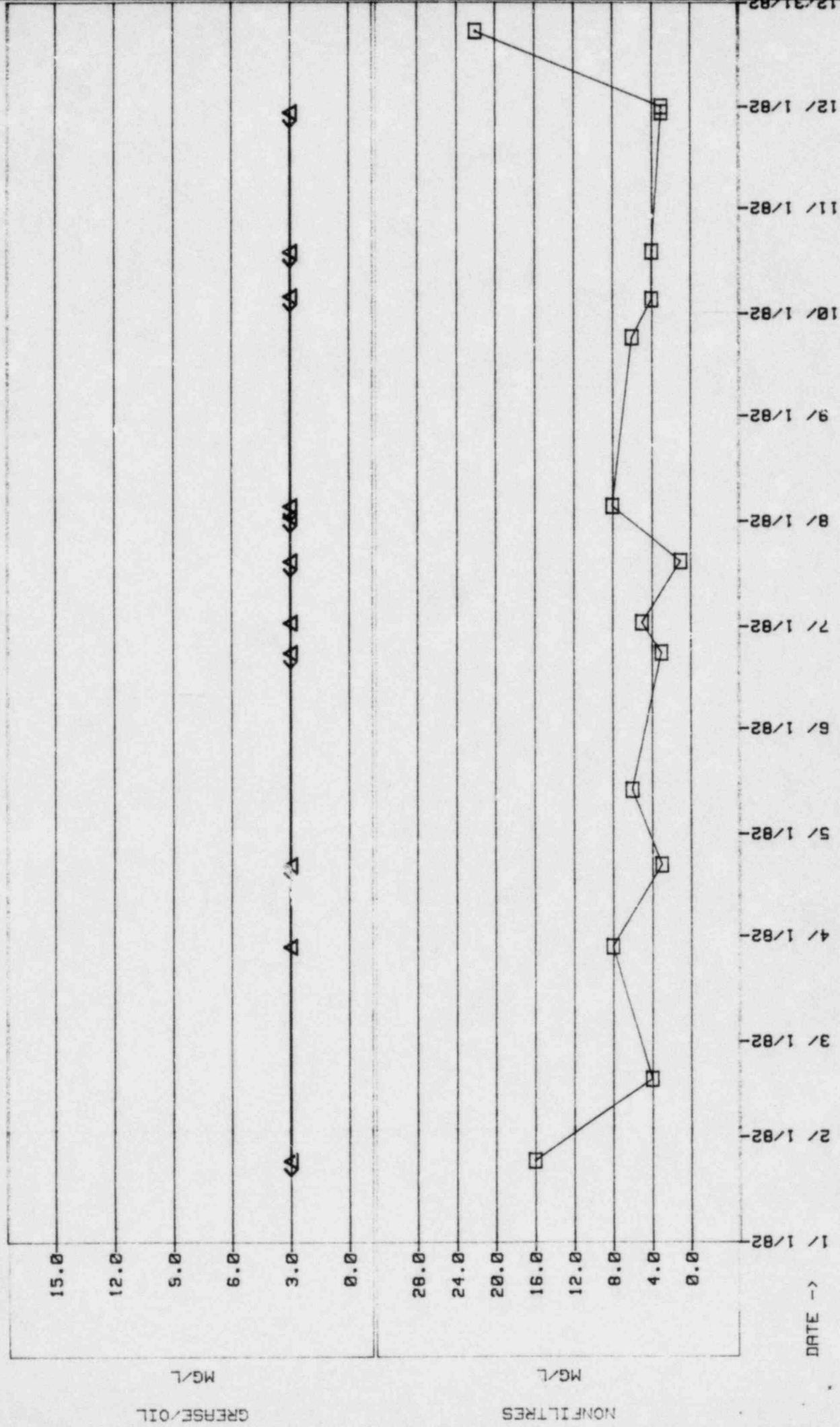
Make Up Demineralizer - Regenerant Discharge 001C



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

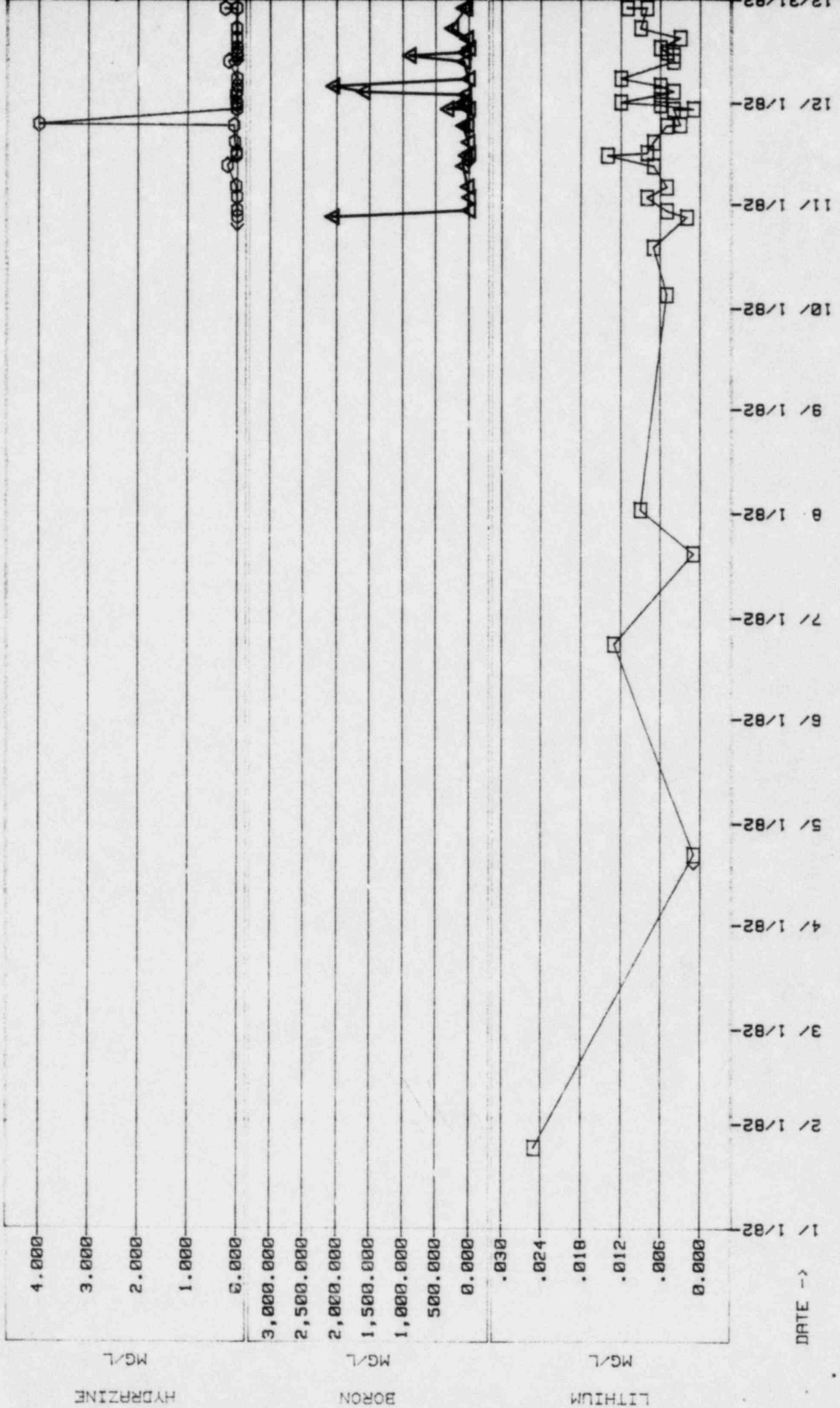
NPDES - 001D LRW



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

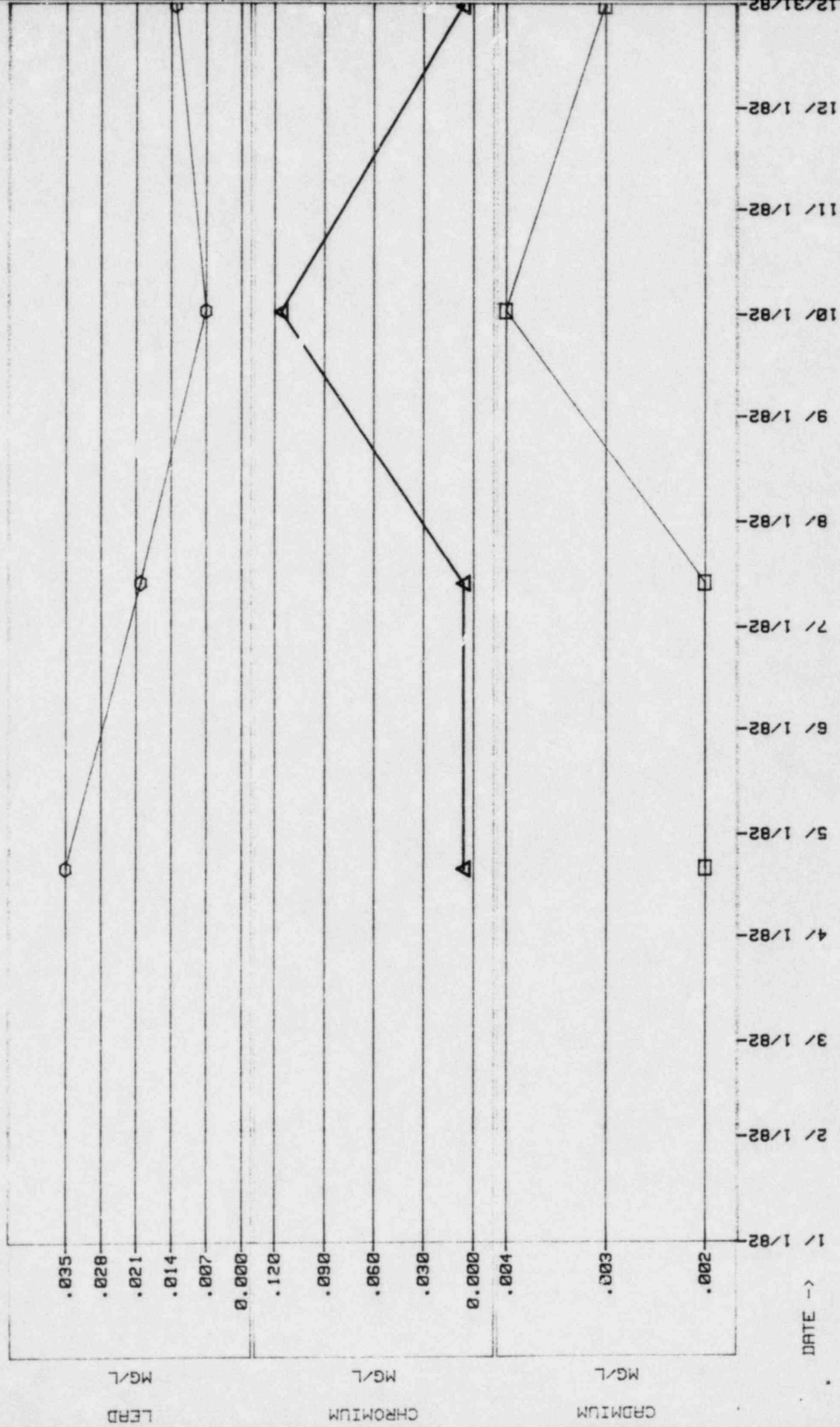
NPDES - 001D LRW



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

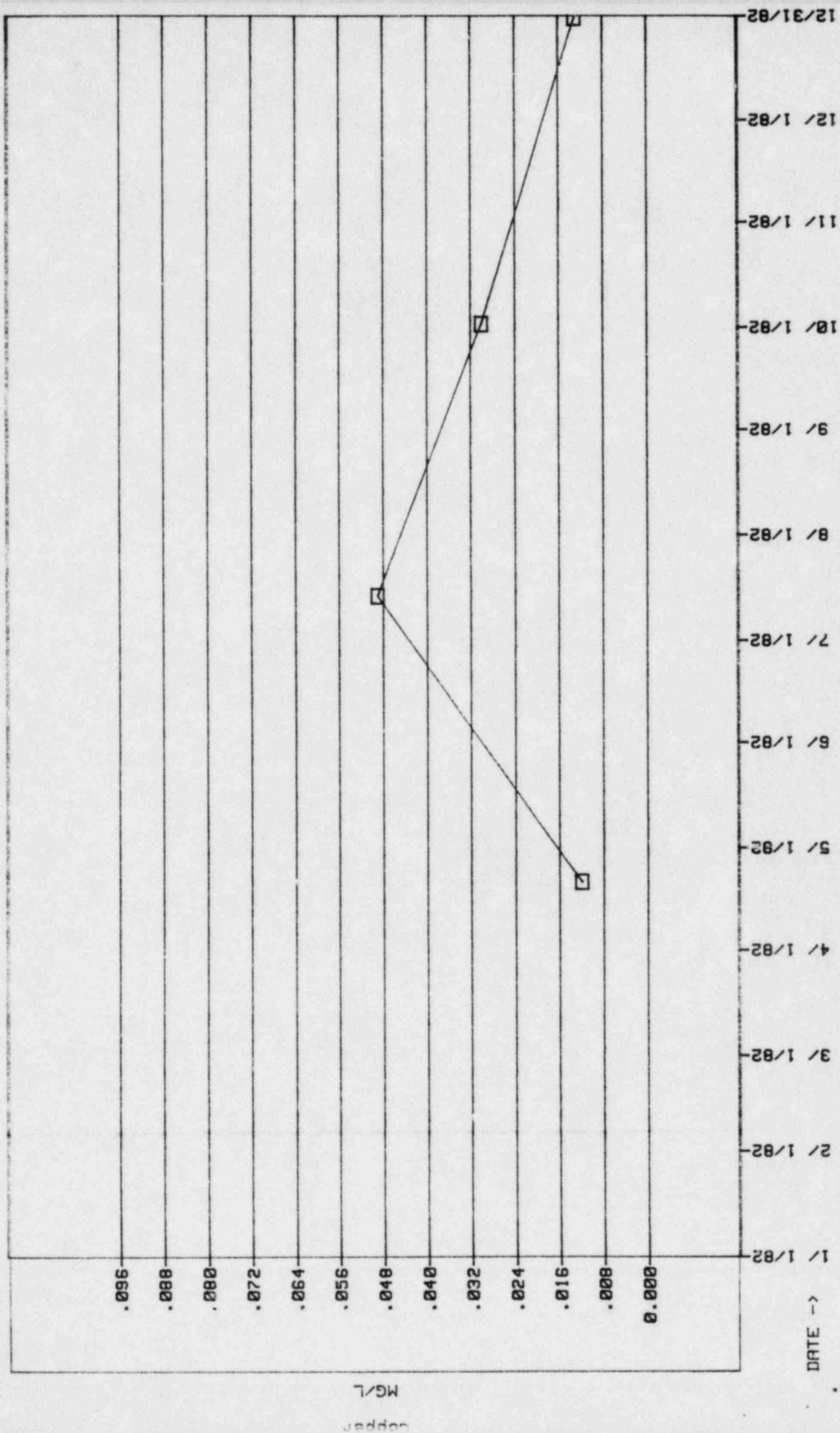
NPDES - 001D LRW



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

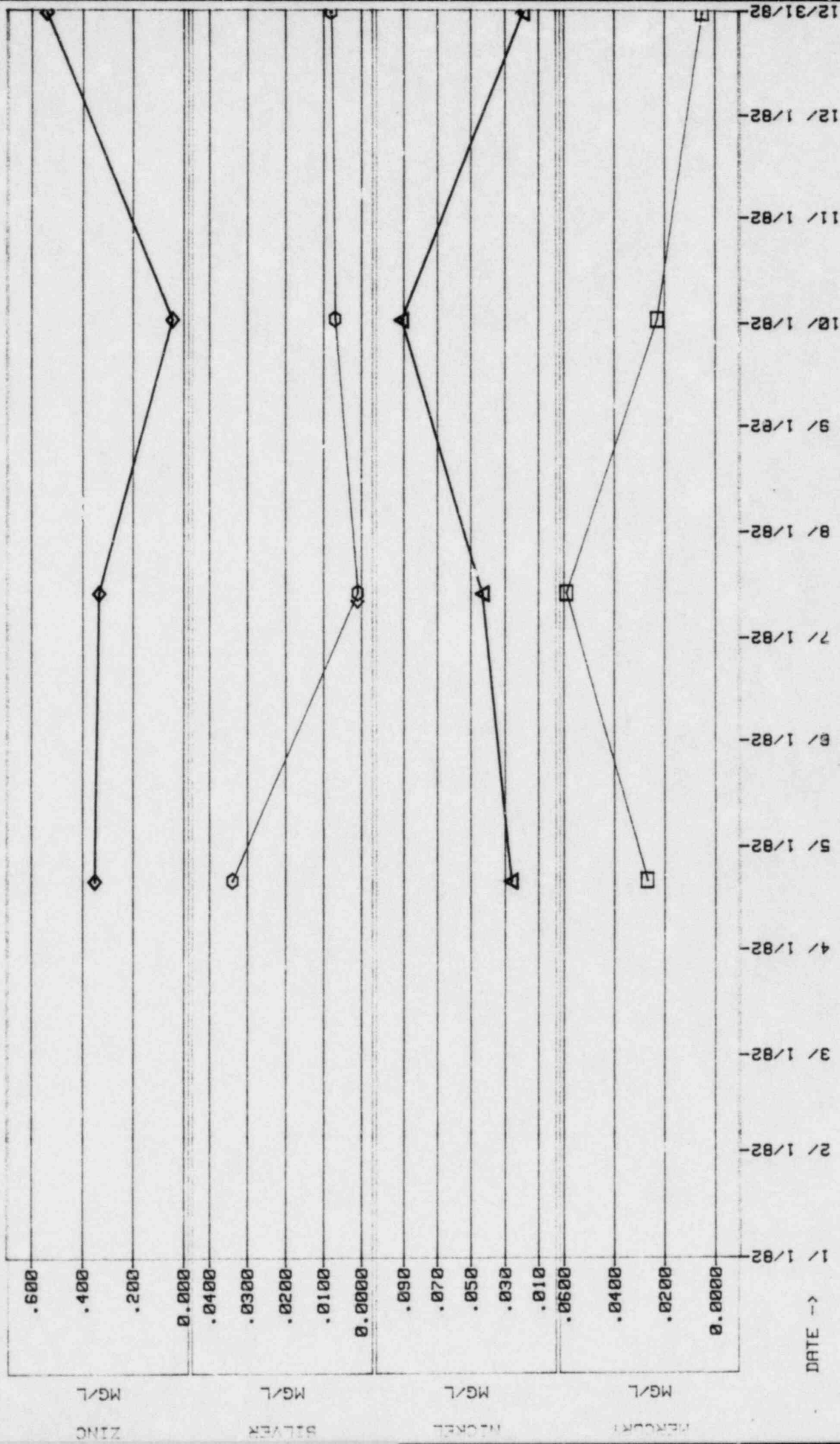
NPDES - 001D LRW



PG&E

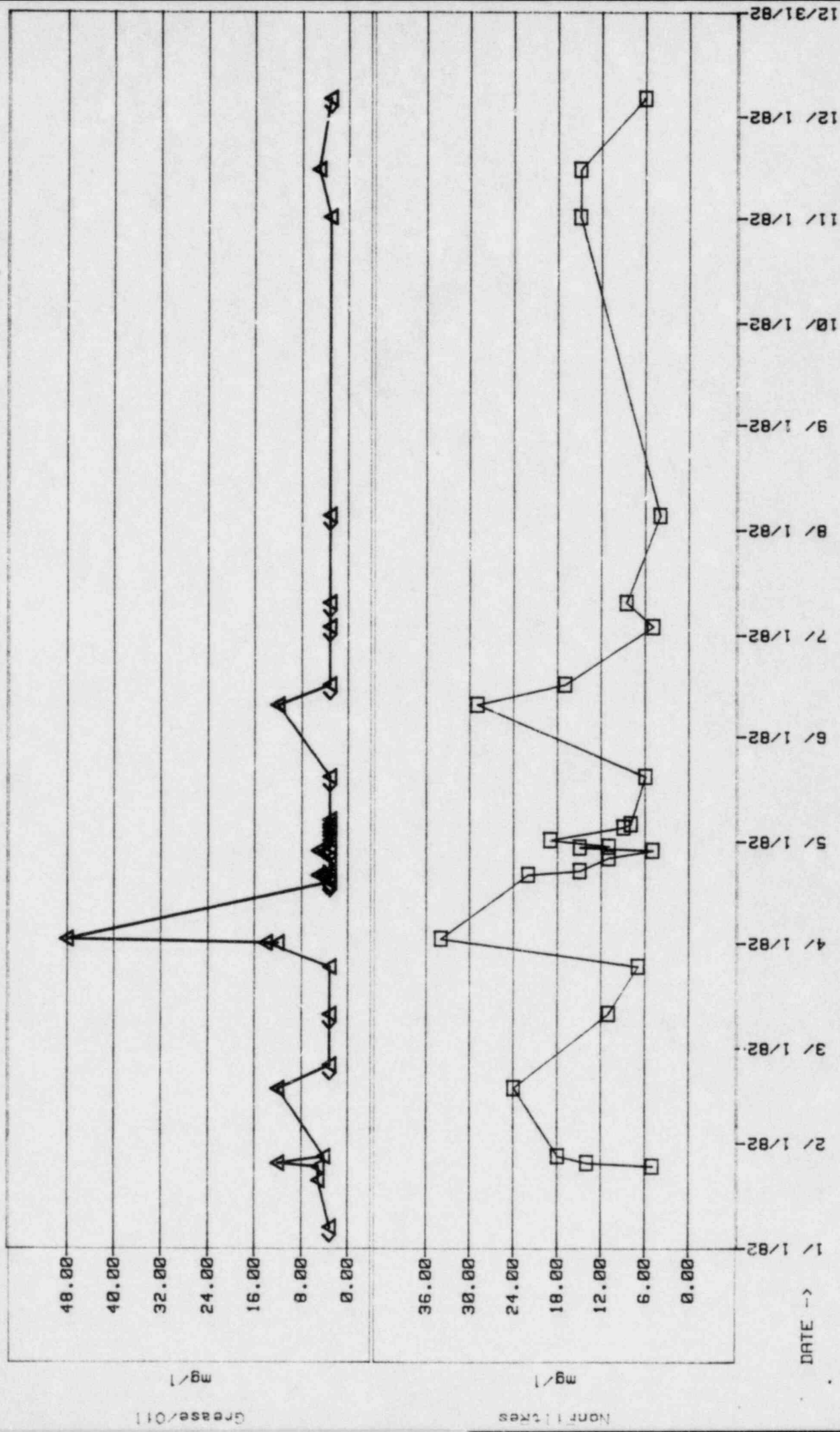
NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

NPDES - 001D LRW



NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

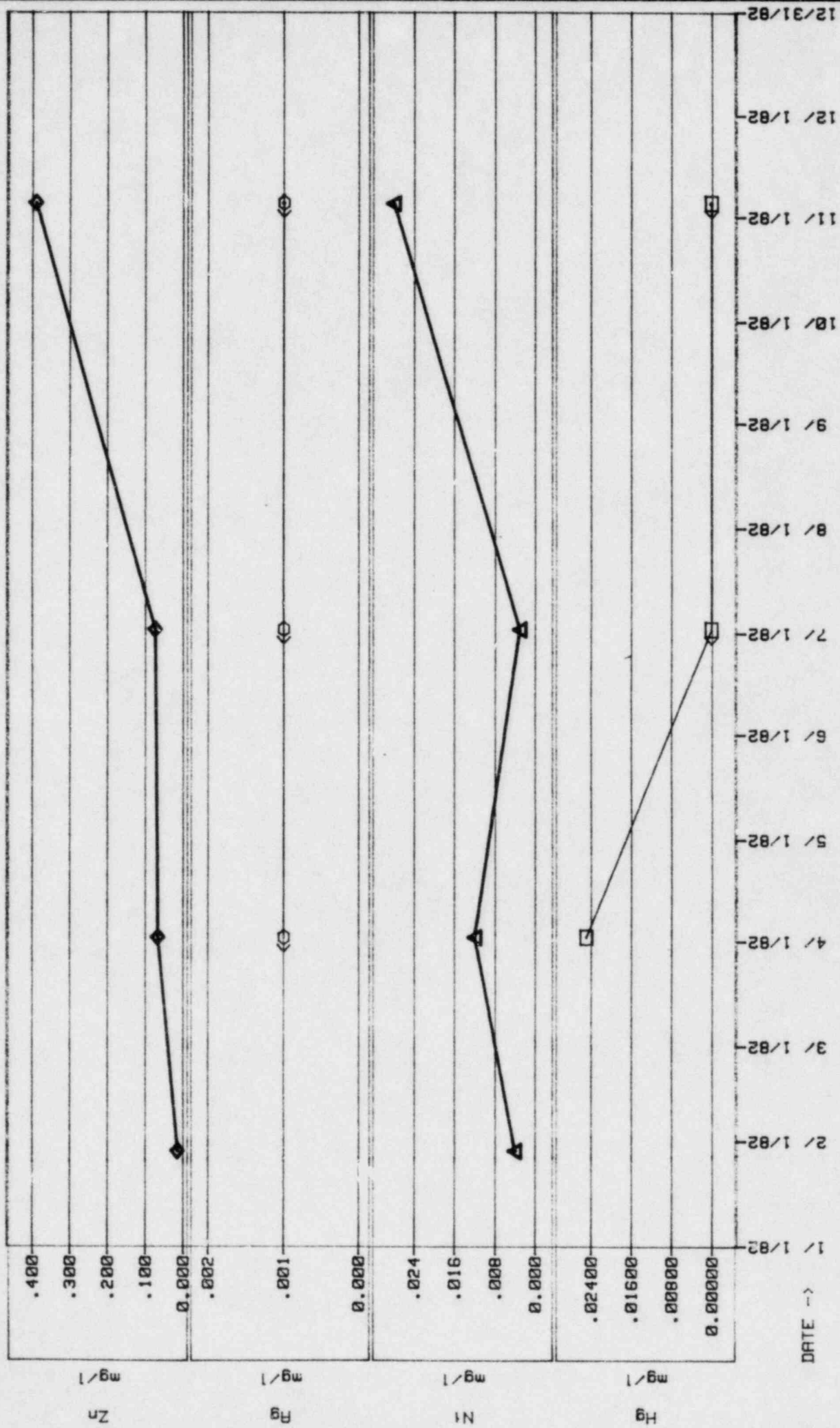
Waste Pond and O.W.S.-Turbine Bld. Sump 001F - O.W.S./Turb. Bld. Sump 001F



PG&E

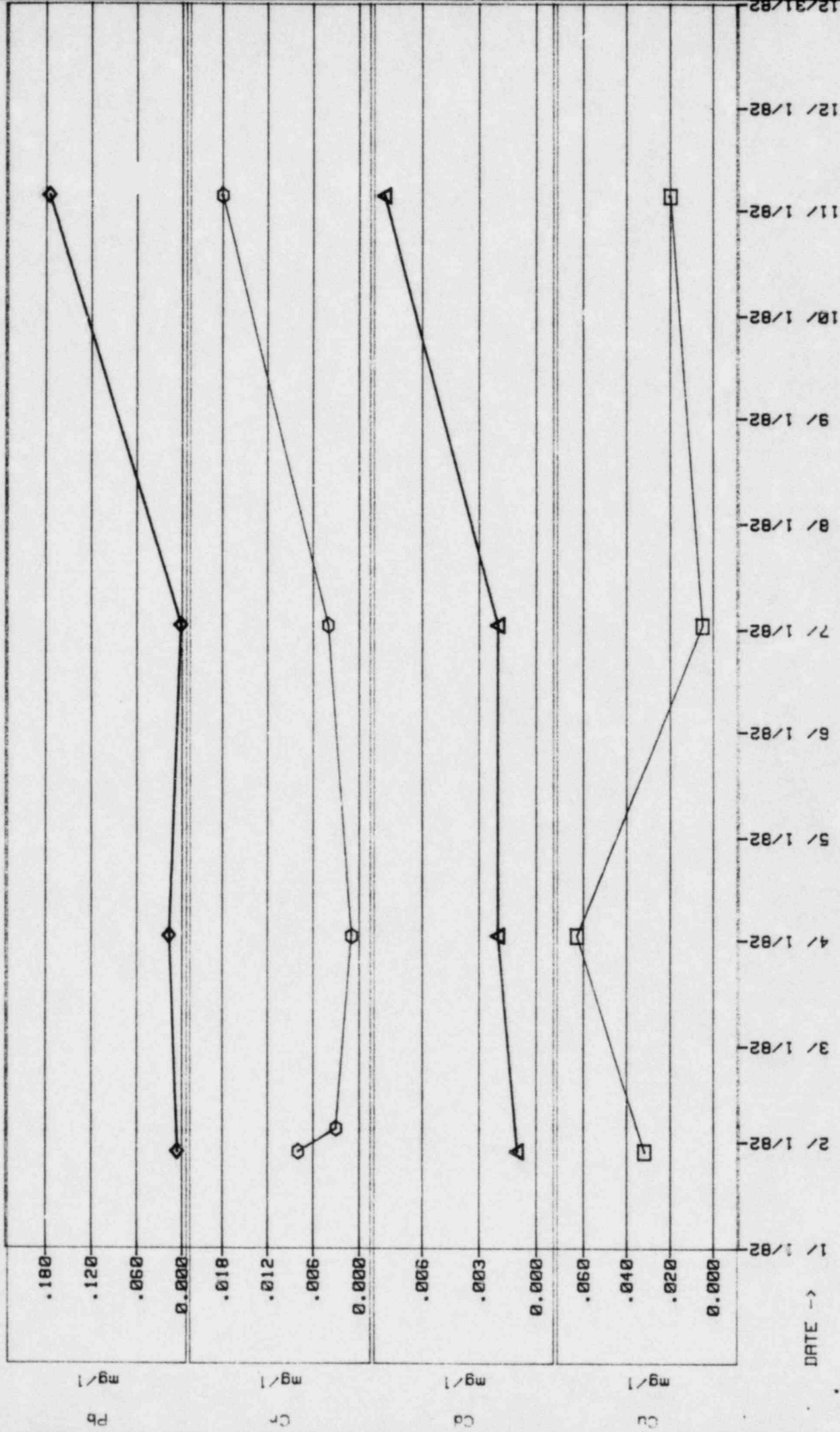
NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

Waste Pond and O.W.S.-Turbine Bld. Sump 001F - O.W.S./Turb. Bld. Sump 001F



NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

Waste Pond and O.W.S.-Turbine Bld. Sump 001F - O.W.S.-Turb. Bld. Sump 001F

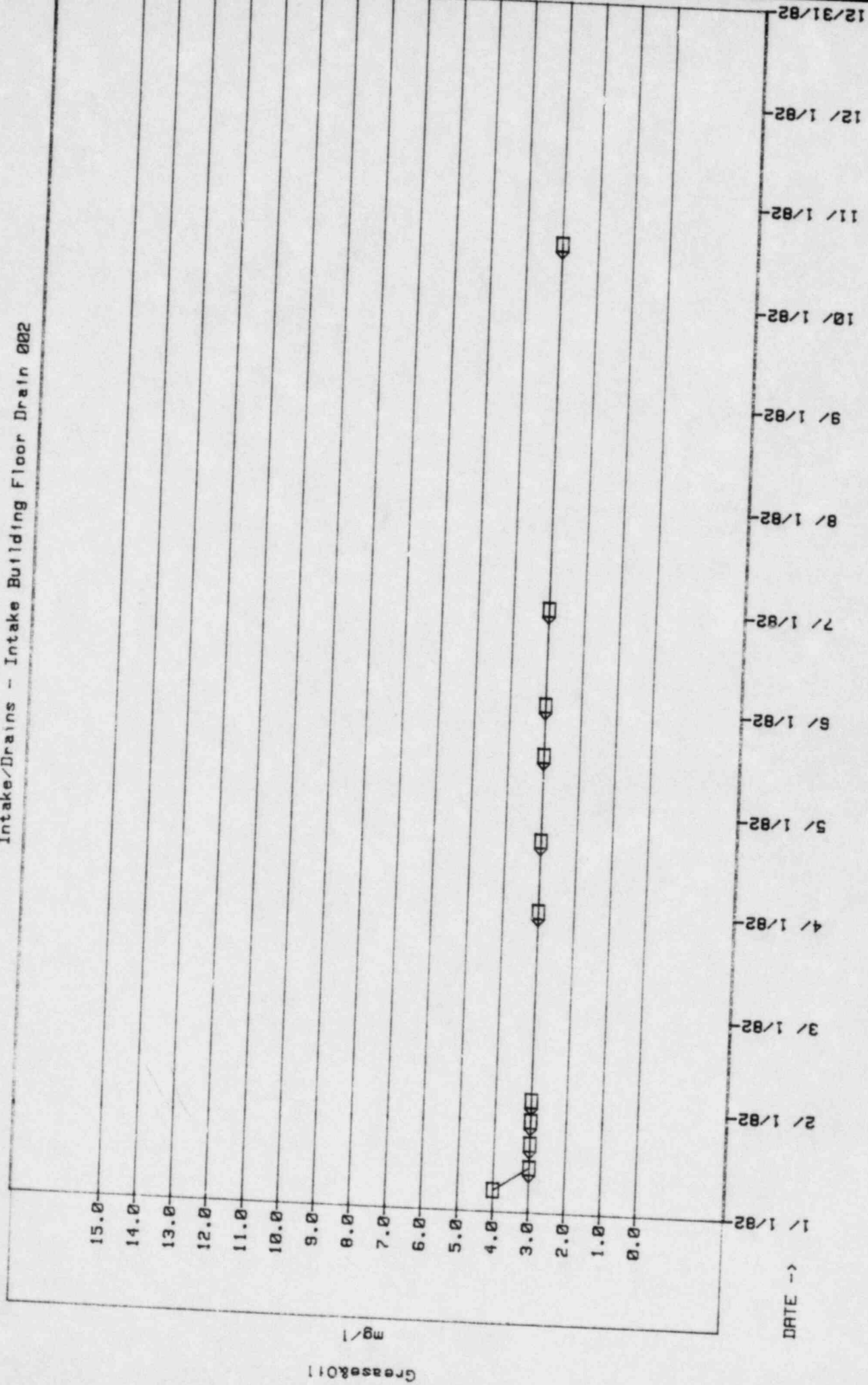


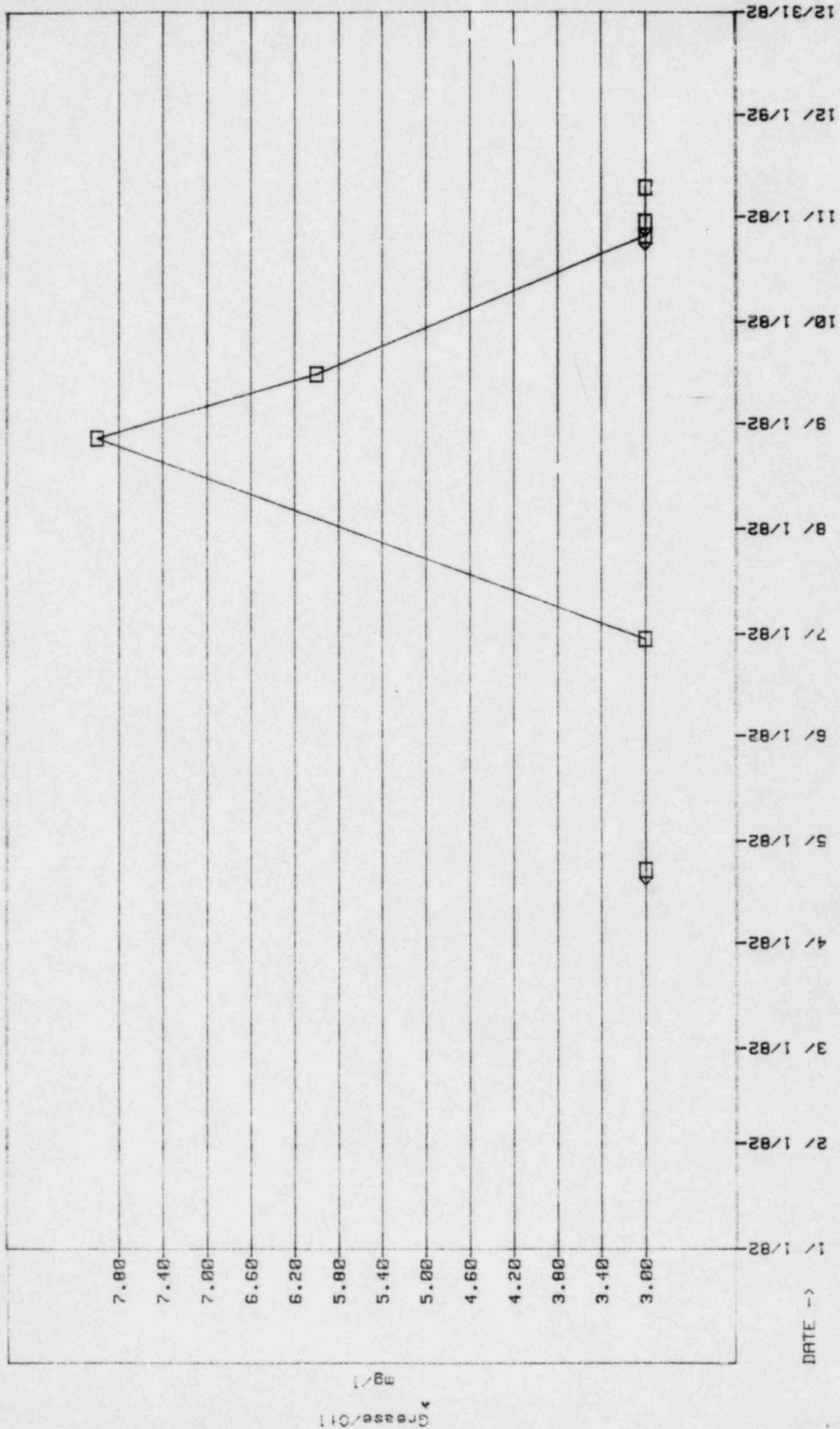
DATE ->

PG&E

NUCLEAR PLANT OPERATIONS - DIBLO CANYON POWER PLANT

Intake/Drains - Intake Building Floor Drain 002





APPENDIX 3

Thermal Effects Monitoring Report
1982 Annual Report