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 dye 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

Date	Subject
April 12, 1982	Visible oil in ocean from malfuncion 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

1982	001 Once Thru Cooling Wtr* $x10^6$ gal	001A Fire Water Flush $x10^3$ gal	001B Aux Salt Water $x10^6$ gal	001C Mu Water Waste $x10^3$ gal	001D Liq Rad Waste $x10^3$ gal	001E Service Colling Wtr $x10^6$ gal	001F TB Sump OWS $x10^3$ gal	001G R.O. Blowdown $x10^3$ gal
JAN	Ø	Ø	491.66	23.8	43.30	Ø	406.45	Ø
FEB	Ø	175.00	444.36	23.0	49.04	Ø	531.04	Ø
MARCH	Ø	Ø	487.01	167.7	59.30	0.35	139.51	Ø
APRIL	Ø	52.8	463.50	201.9	65.17	Ø	313.48	Ø
MAY	1342.78	Ø	470.25	97.9	60.43	0.35	348.48	Ø
JUNE	451.84	Ø	460.68	Ø	42.55	Ø	437.01	Ø
JULY	Ø	77.5	386.26	163.2	53.90	Ø	230.16	Ø
AUG	Ø	Ø	419.74	126.4	45.46	Ø	65.33	Ø
SEPT	Ø	92.0	452.10	46.2	26.08	11.94	141.1	Ø
OCT	Ø	80.0	118.42	Ø	62.95		25.56	Ø
NOV	Ø	Ø	161.40	Ø	13.13	Ø	26.00	Ø
DEC	Ø	Ø	426.87	Ø	55.60	.23	73.58	Ø

*Main Circ Only

1982	001H Cond Sea Wtr Demin	001I Sea Evap Blowdown	001J Cond Pump Disch	001K Cond Tube Leak Det	00L Steam Gen Blowdown	[illegible] Intake Sump	003 Screen Wash Intake	004 Thermal Effects Lab	005 Yard Storm Drains
	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	Ø	Ø	Ø	Ø	Ø	85.5	Ø	25.00	Ø
FEB	Ø	Ø	Ø	Ø	Ø	37.8	9.48	22.58	Ø
MARCH	Ø	Ø	Ø	Ø	Ø	49.5	10.88	25.00	Ø
APRIL	67.90	Ø	Ø	Ø	Ø	144.3	8.66	24.19	YES
MAY	Ø	Ø	Ø	Ø	Ø	21[illegible]5	10.18	25.00	Ø
JUNE	Ø	Ø	Ø	Ø	Ø	206.1	Ø	24.19	YES
JULY	Ø	Ø	Ø	Ø	Ø	33.6	43.68	25.00	Ø
AUG	Ø	Ø	Ø	Ø	Ø	16.8	0.05	25.00	YES
SEPT	Ø	Ø	Ø	Ø	Ø	14.7	58.50	24.19	YES
OCT	Ø	Ø	Ø	Ø	Ø	20.4	0.20	25.00	YES
NOV	Ø	Ø	Ø	Ø	Ø	33.3	0.05	24.19	YES
DEC	Ø	Ø	Ø	Ø	Ø	67.6	8.28	25.00	Ø

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

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	5.00	< 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:		NH3 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				00S
11/ 1/82	09:12	.070					
12/ 1/82	19:25	.061					

DIABLO CANYON POWER PLANT
NPDES DATA: ANNUAL SUMMARY

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:		NonFil 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			00S
3/29/82 09:41		.003			00S
4/ 1/82 09:27	.001	< .001	.002	.009	00S
5/ 5/82 09:59	.001			.005	
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	NH3 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	.080	.080		
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		OOS
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: / High Limit: / Low Limit: / Units:	MERCURY MG/L	NICKEL MG/L	ZINC MG/L	SILVER 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				OOS
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				

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

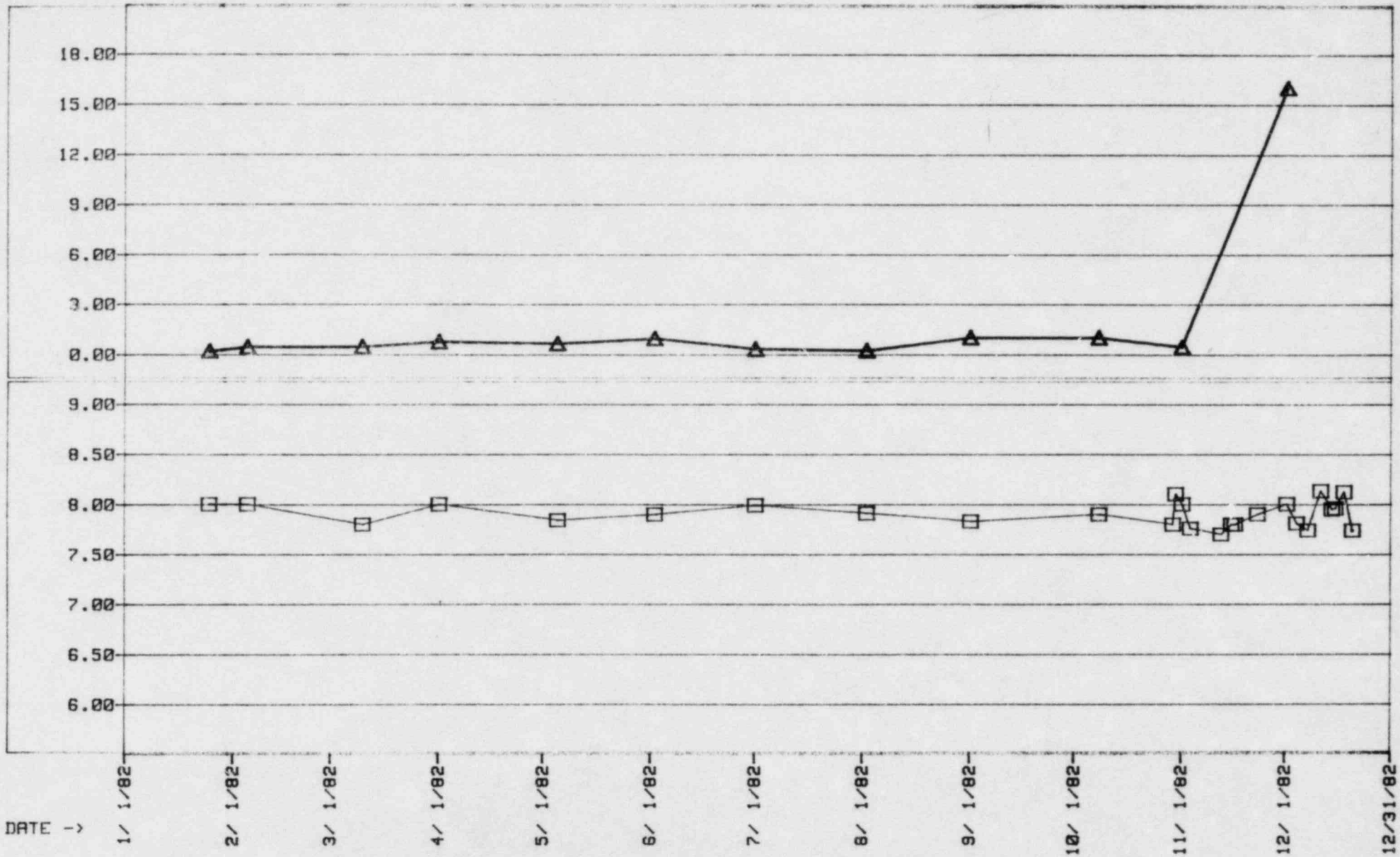
SYSTEM: Intake/Drains
UNIT: Common System
POINT: Yard Storm Drains 005

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					00S
9/15/82	20:00	6.00					00S
10/26/82	09:45	< 3.00					
10/30/82	12:10	< 3.00					
11/ 9/82	18:10	3.00					

PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

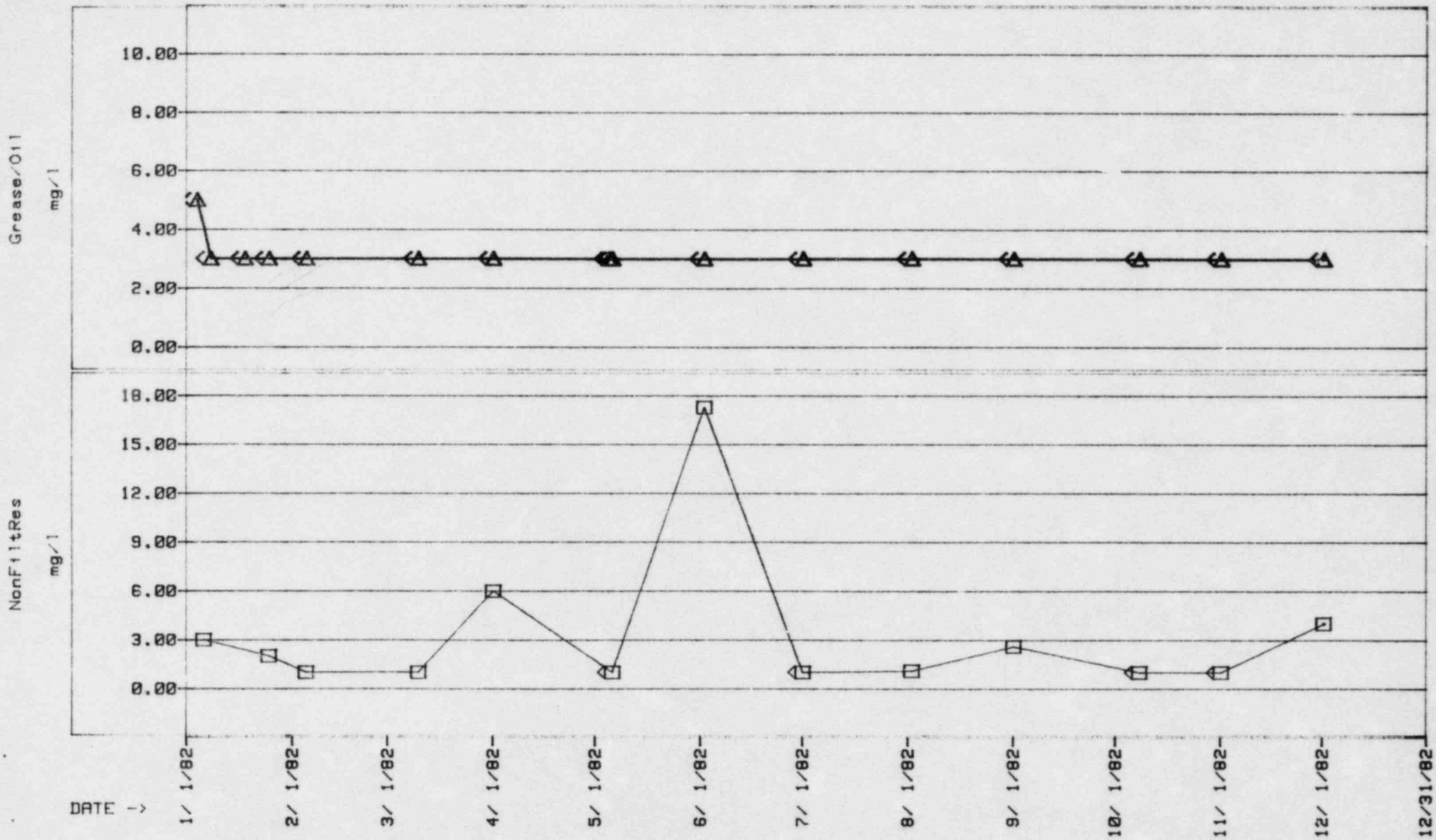
Intake/Drains - Intake Cove



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

Intake/Drains - Intake Cove



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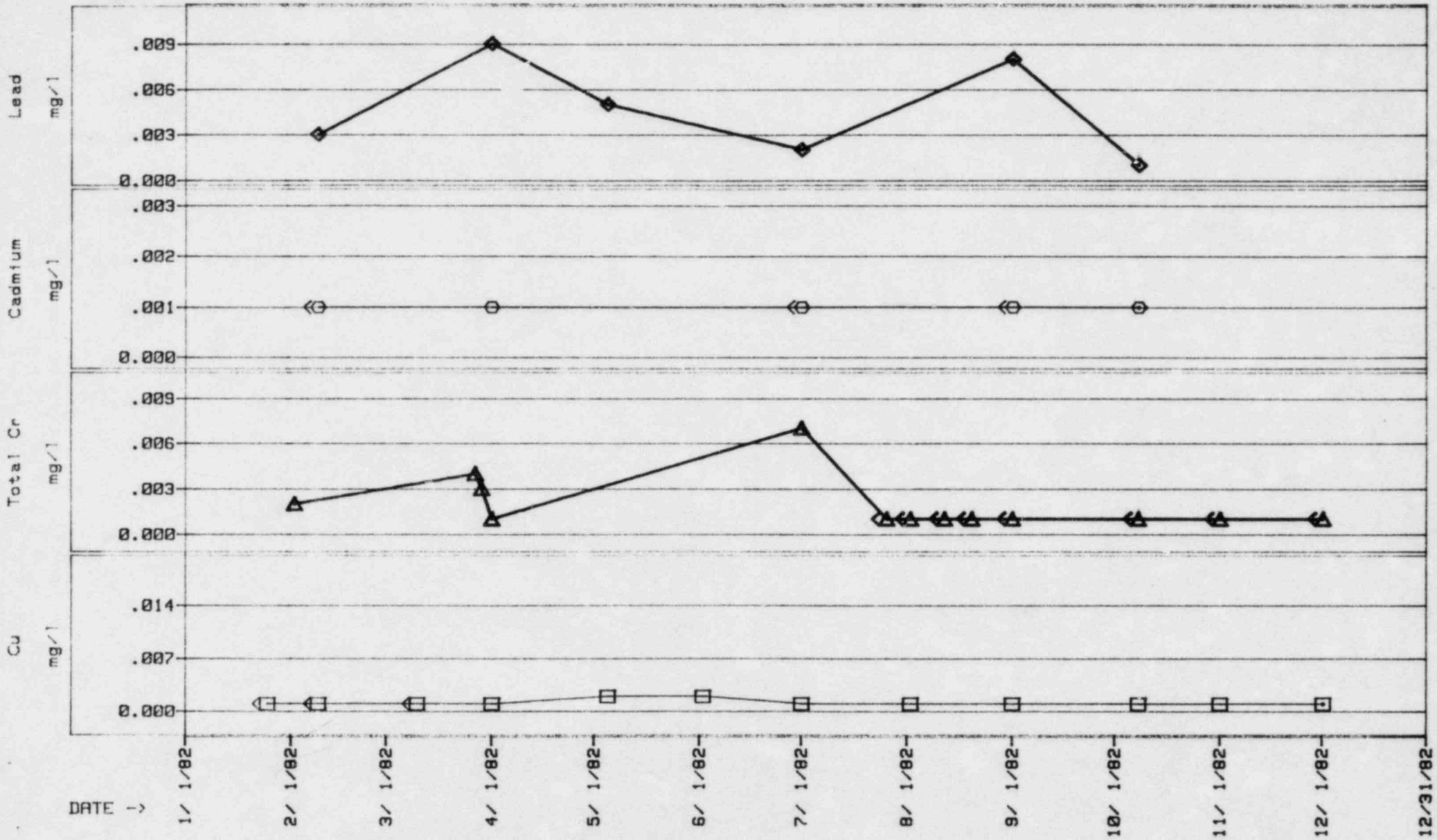
NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

Intake/Drains - Intake Cove



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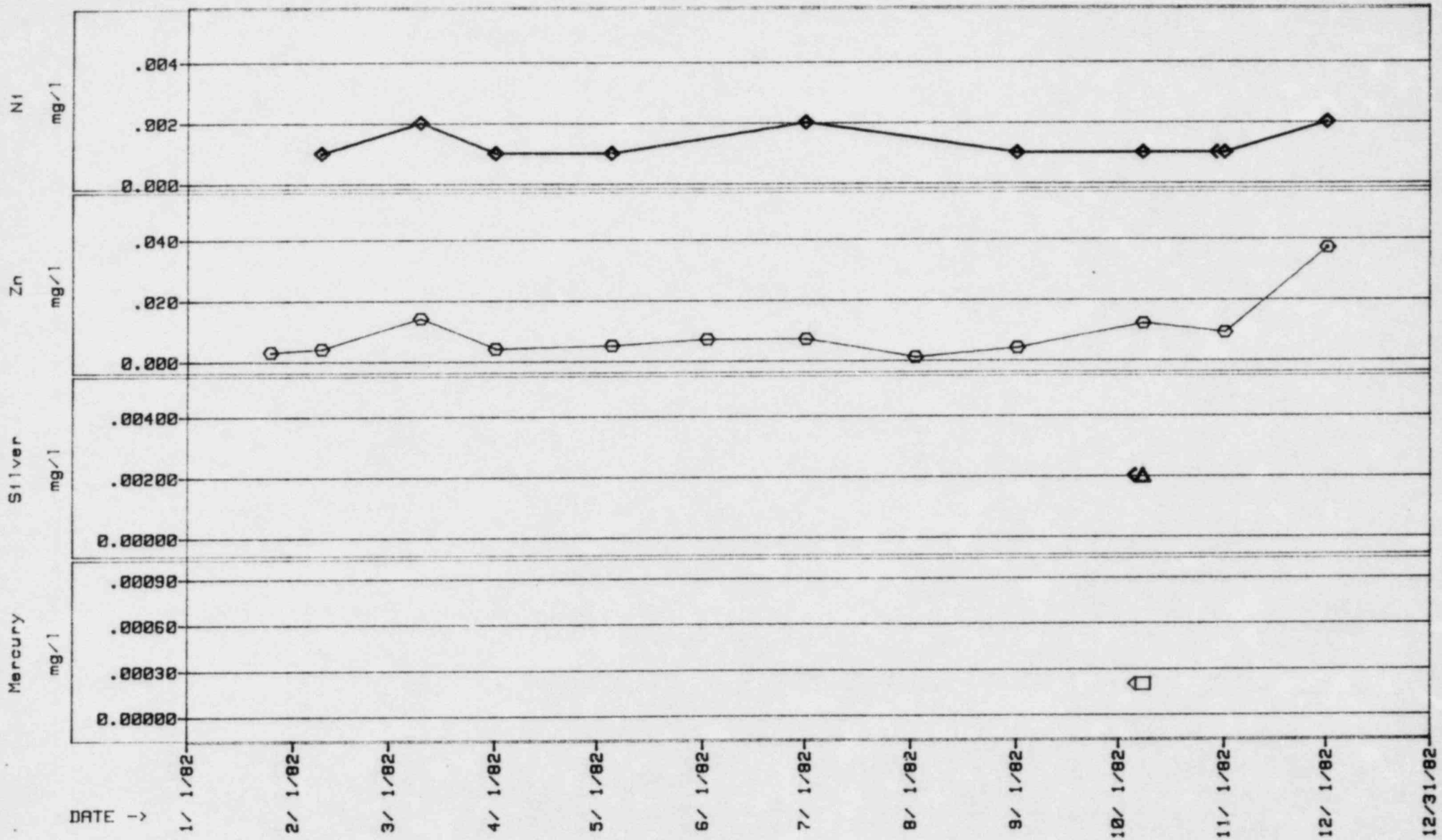
NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

Intake/Drains - Intake Cove



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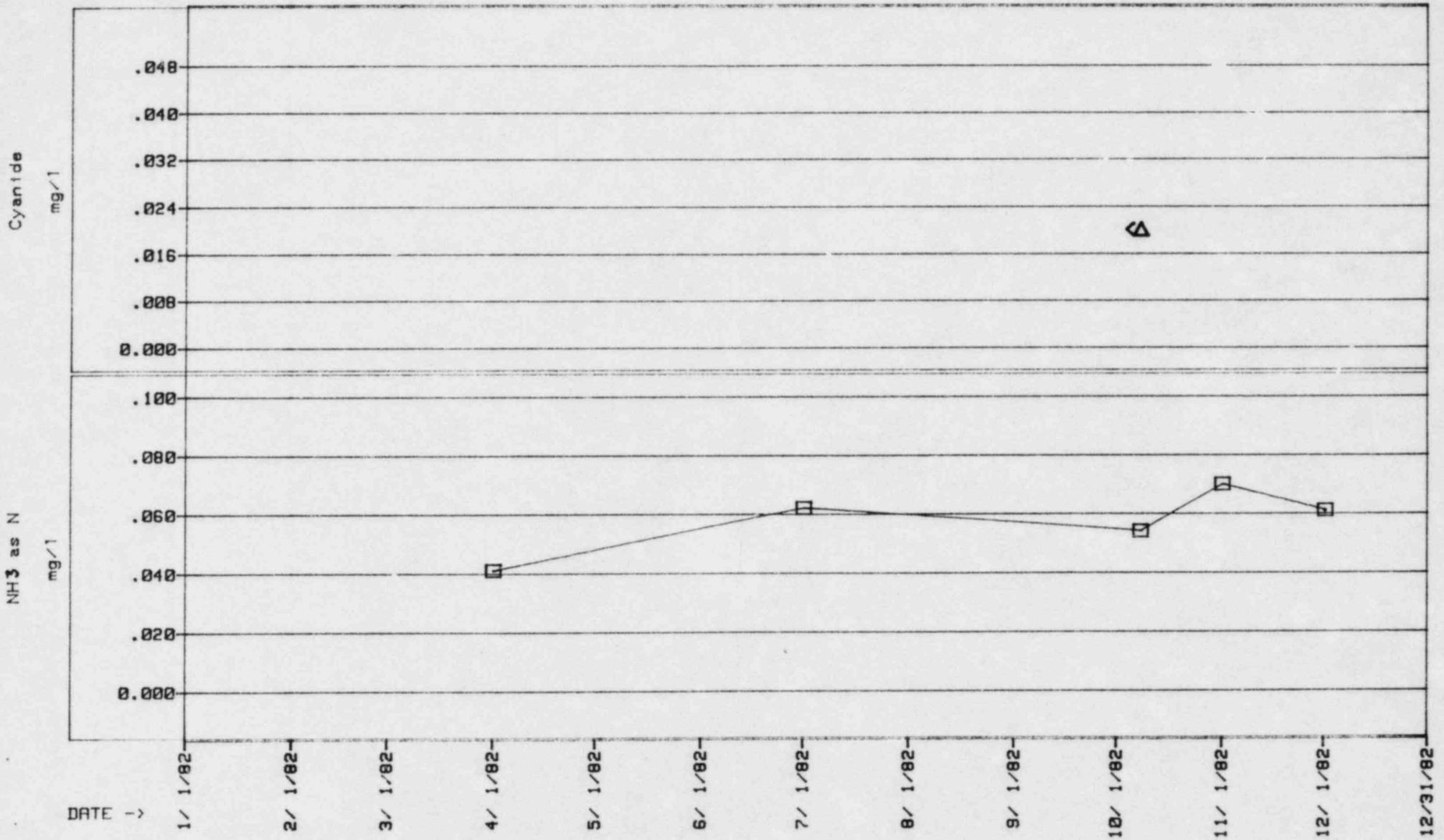
NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

Intake/Drains - Intake Cove



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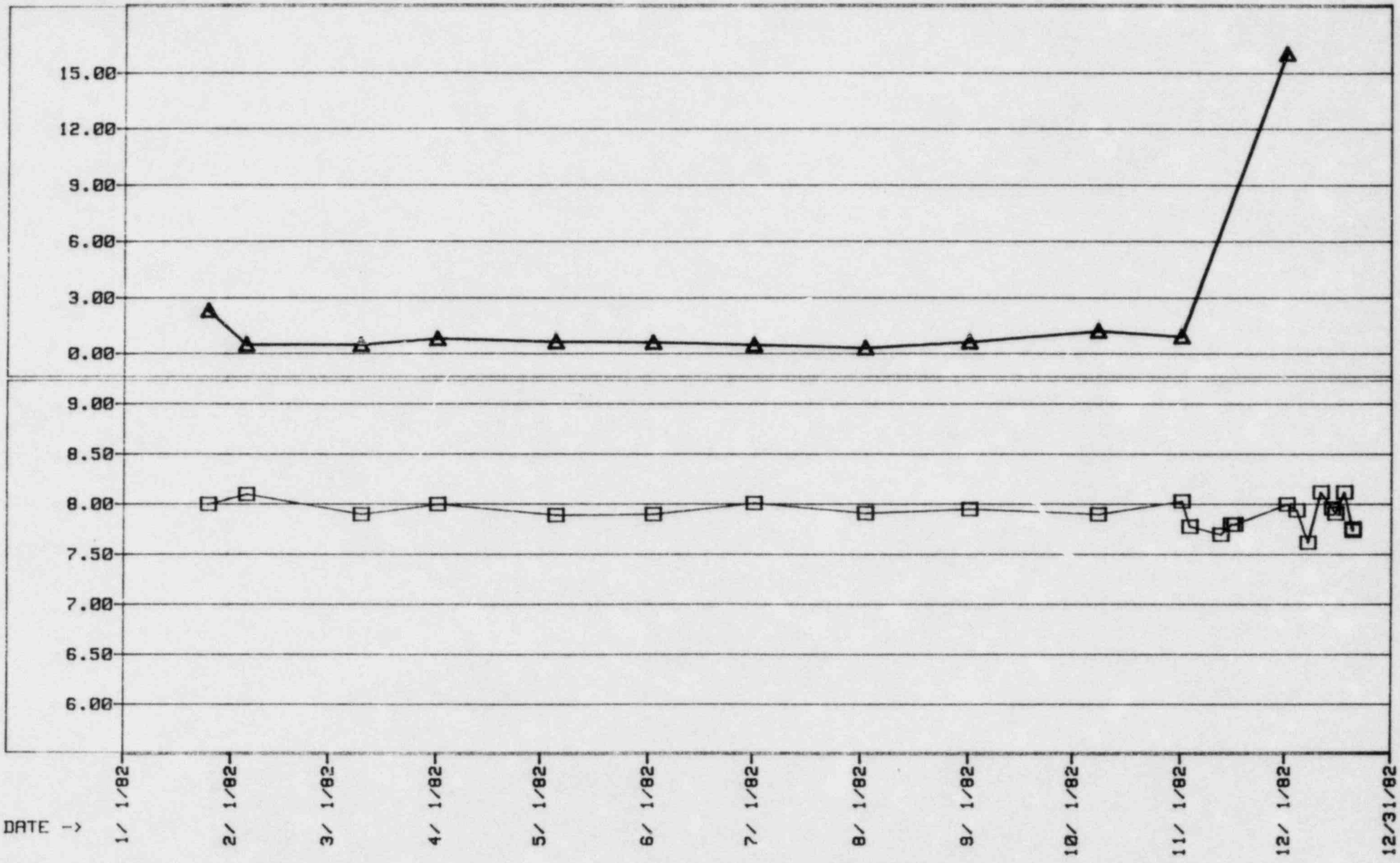
NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

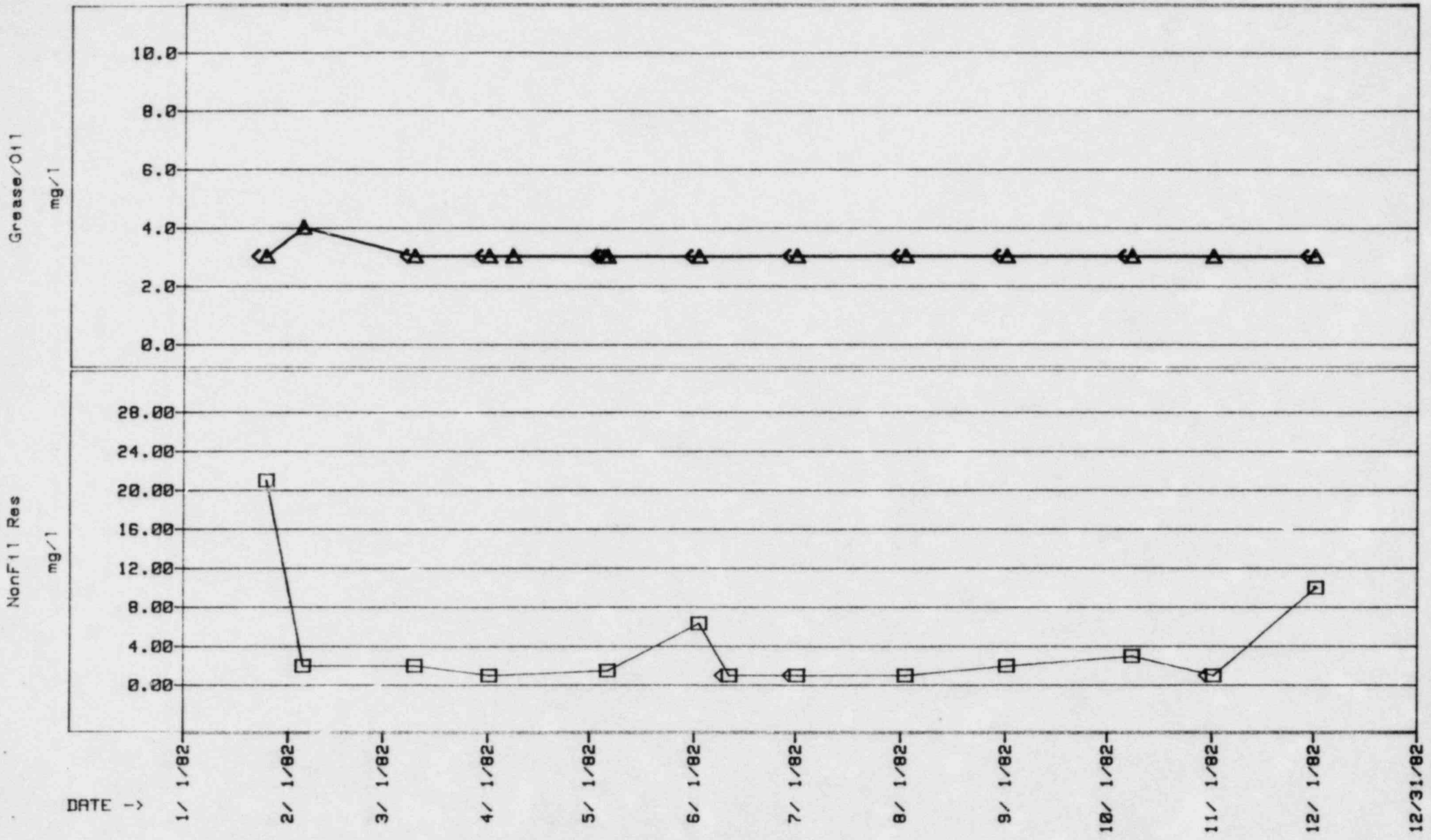
Outfall - Discharge 001



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

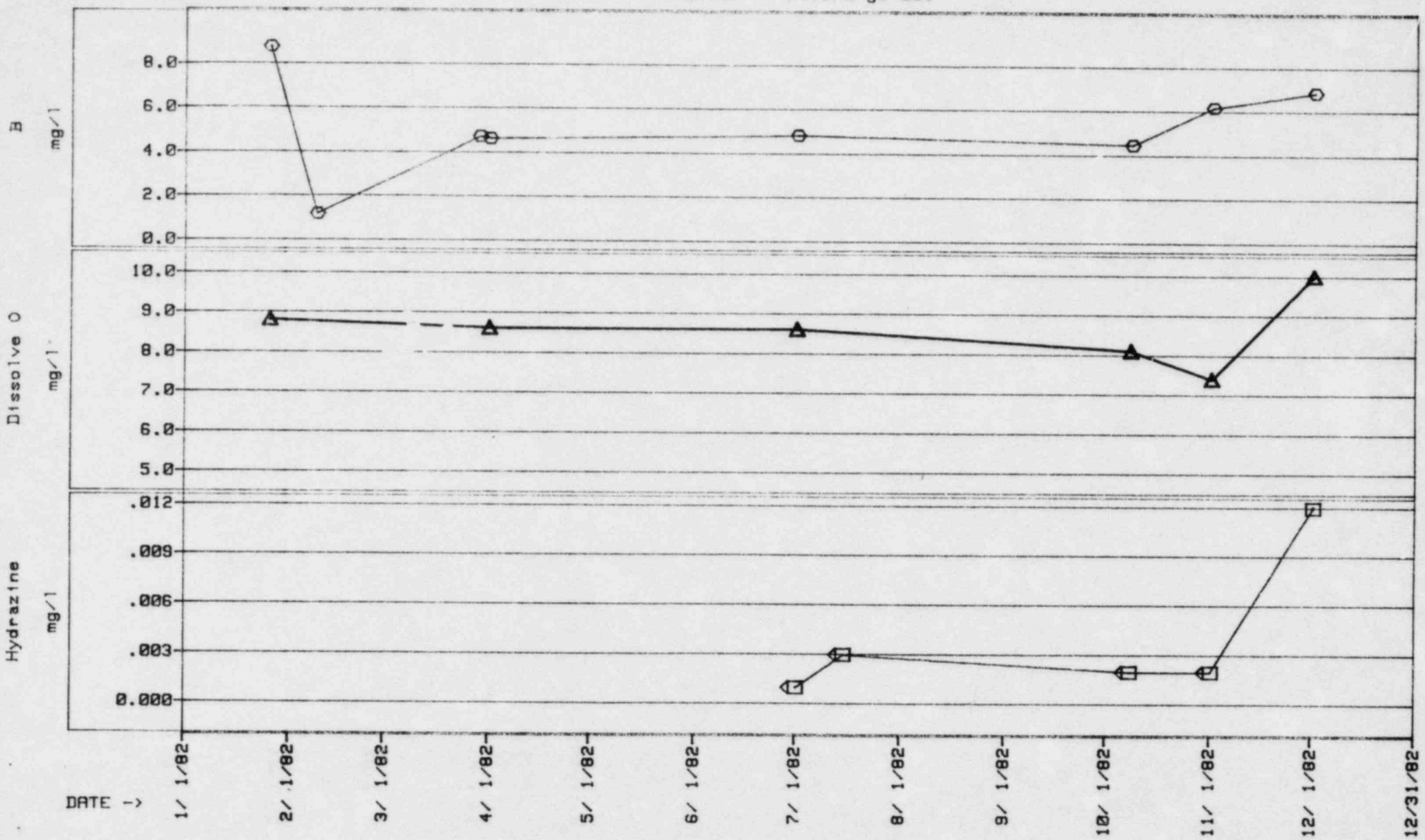
Outfall - Discharge 001



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

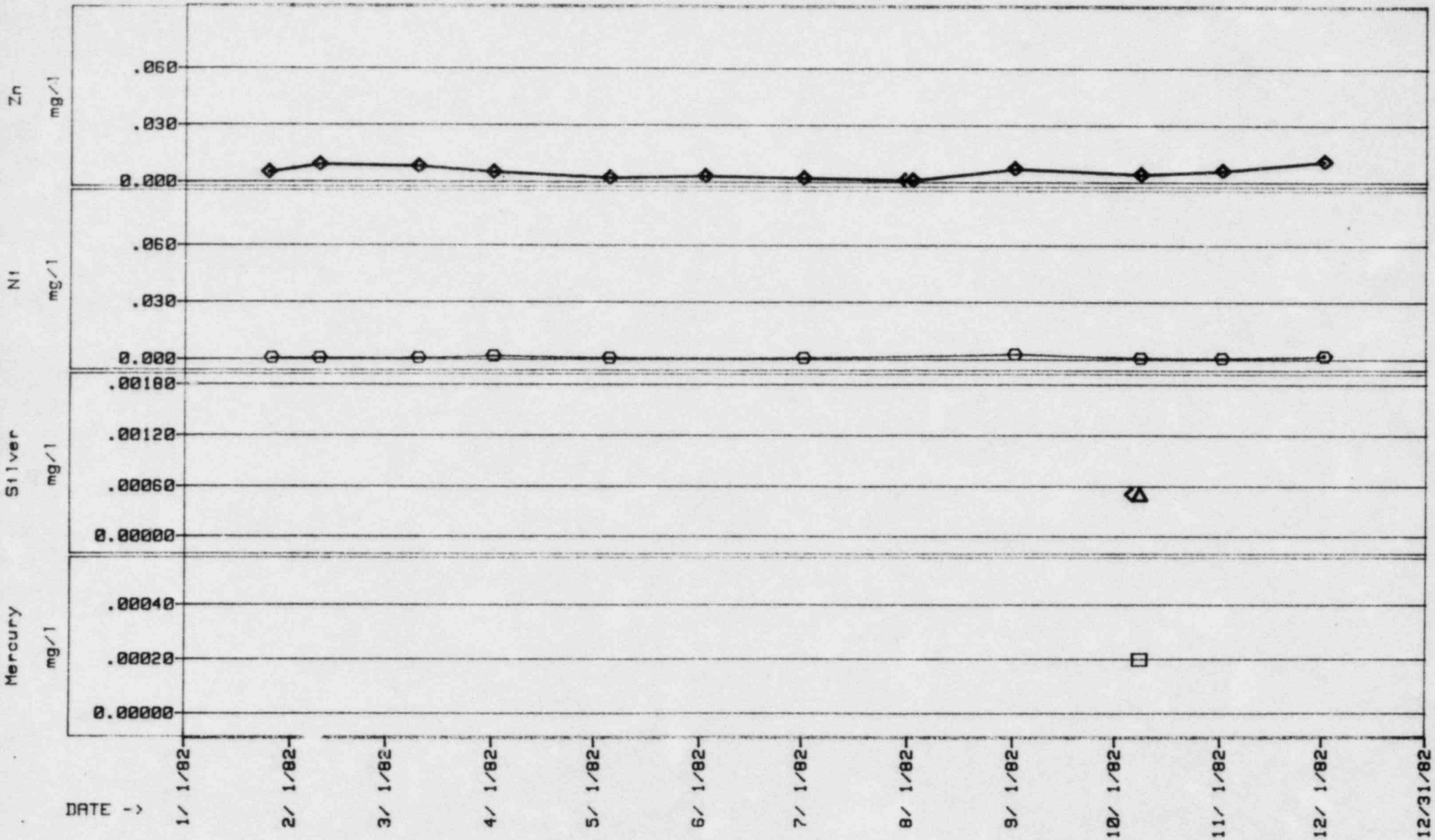
Outfall - Discharge 001



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

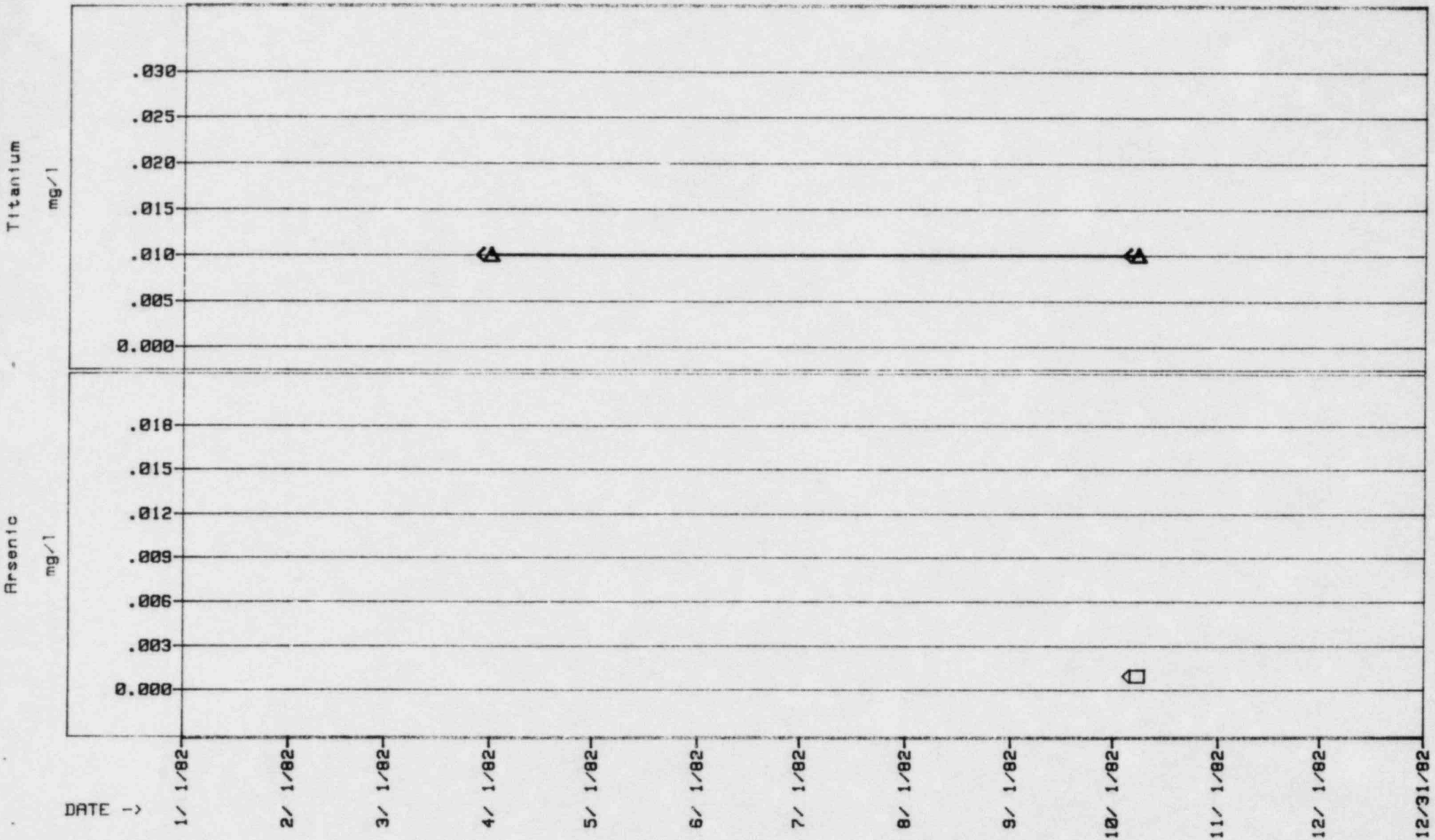
Outfall - Discharge 001



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

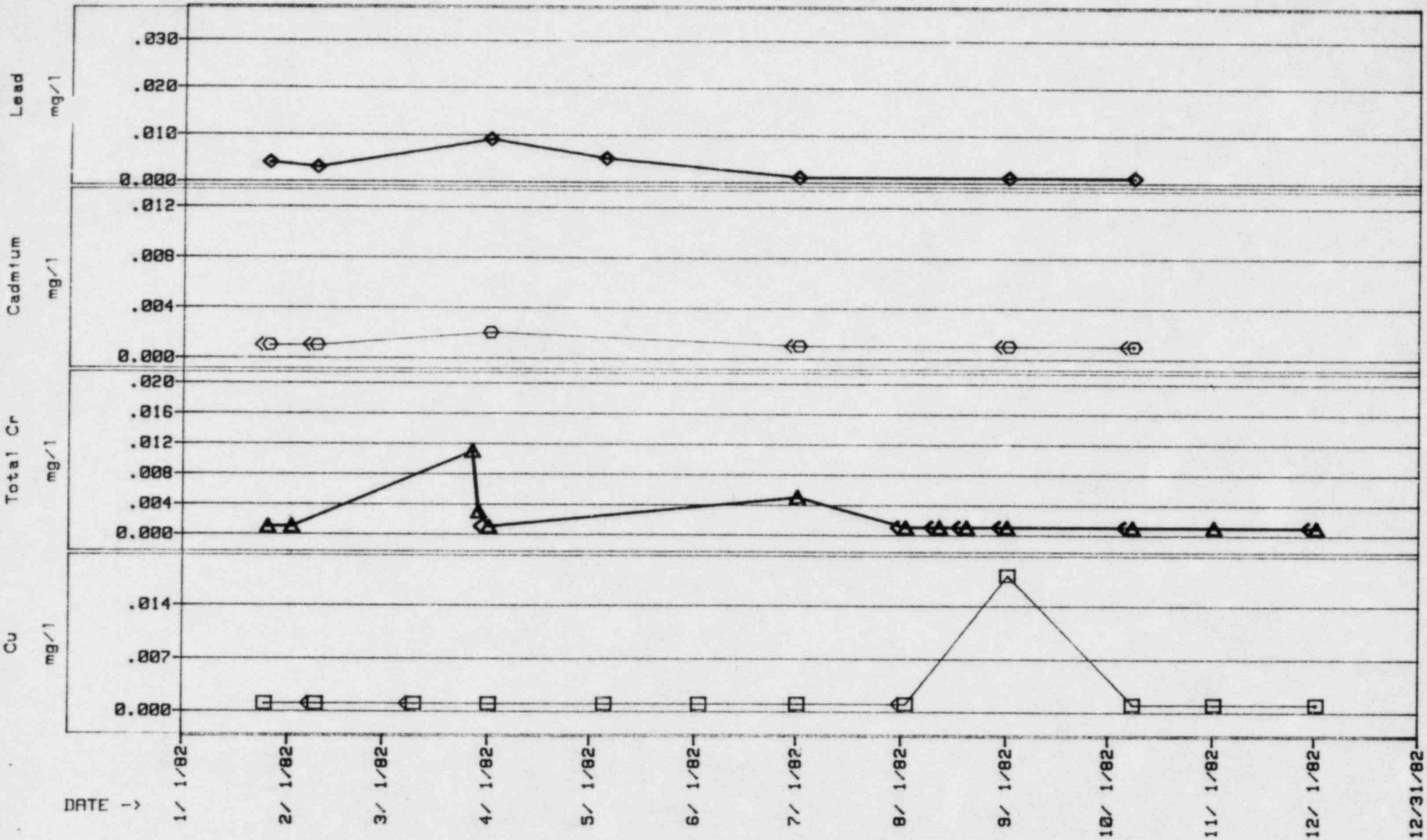
Outfall - Discharge 001



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

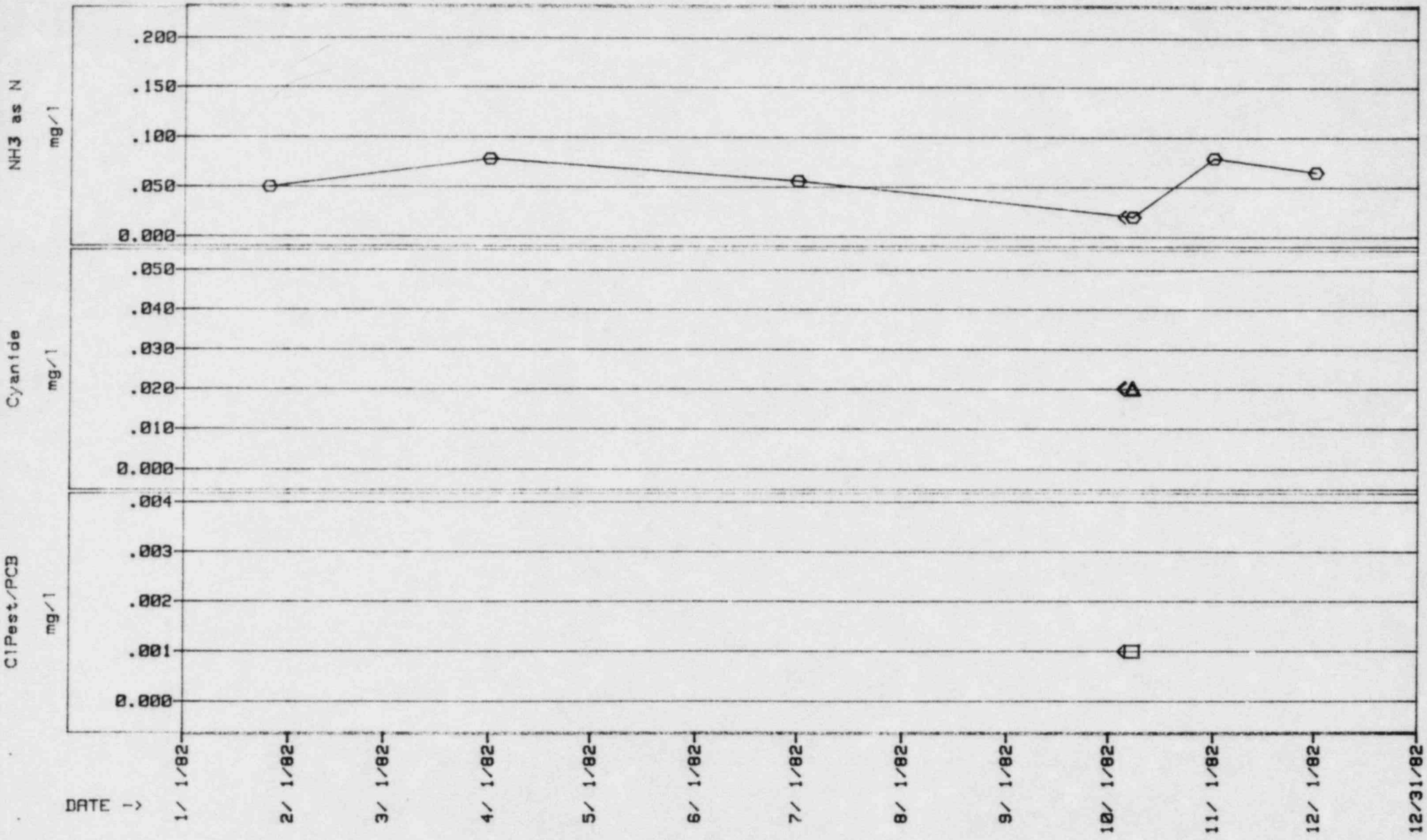
Outfall - Discharge 001



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

Outfall - Discharge 001



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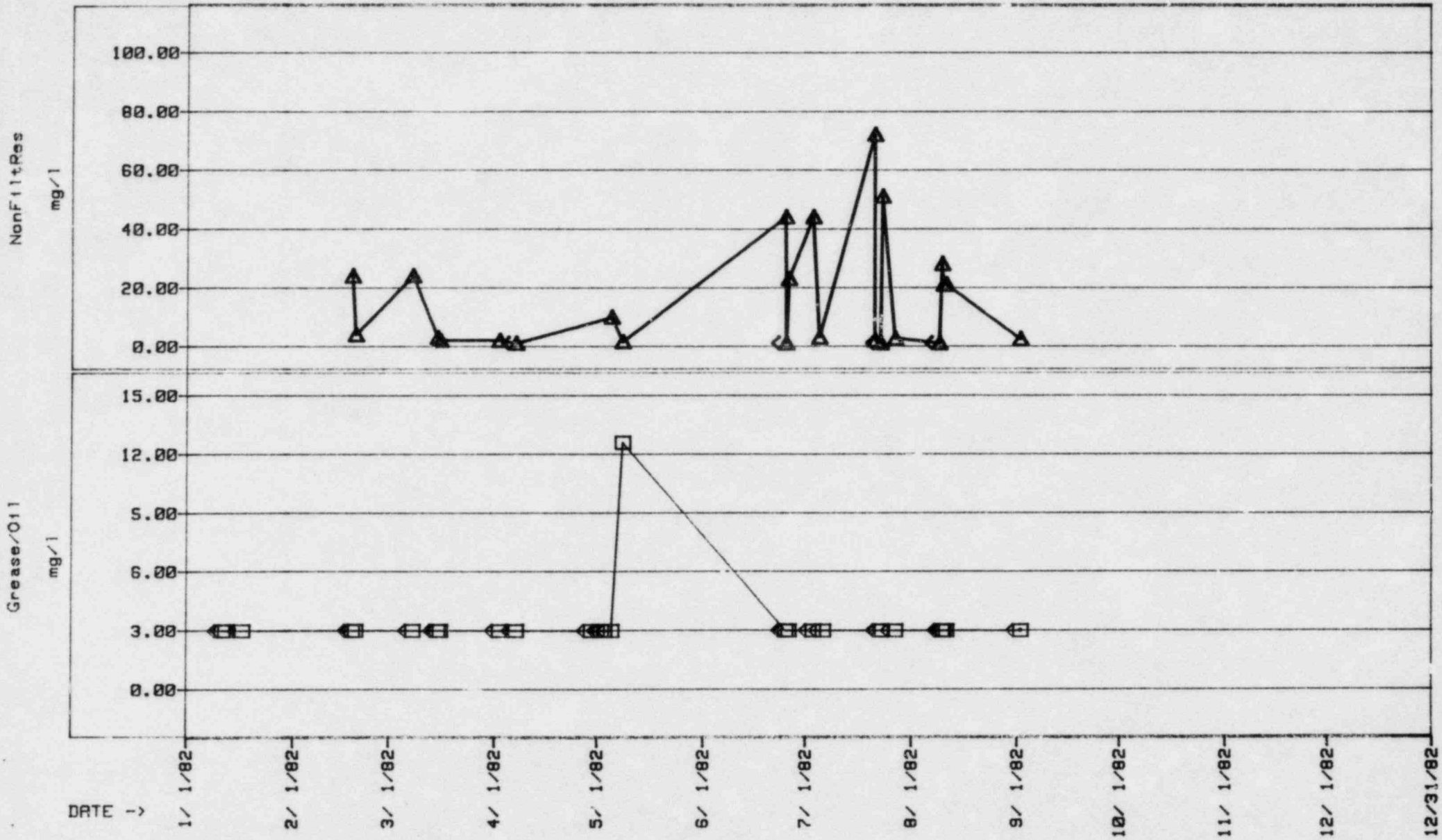
NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

Make Up Demineralizer - Regenerant Discharge 001C



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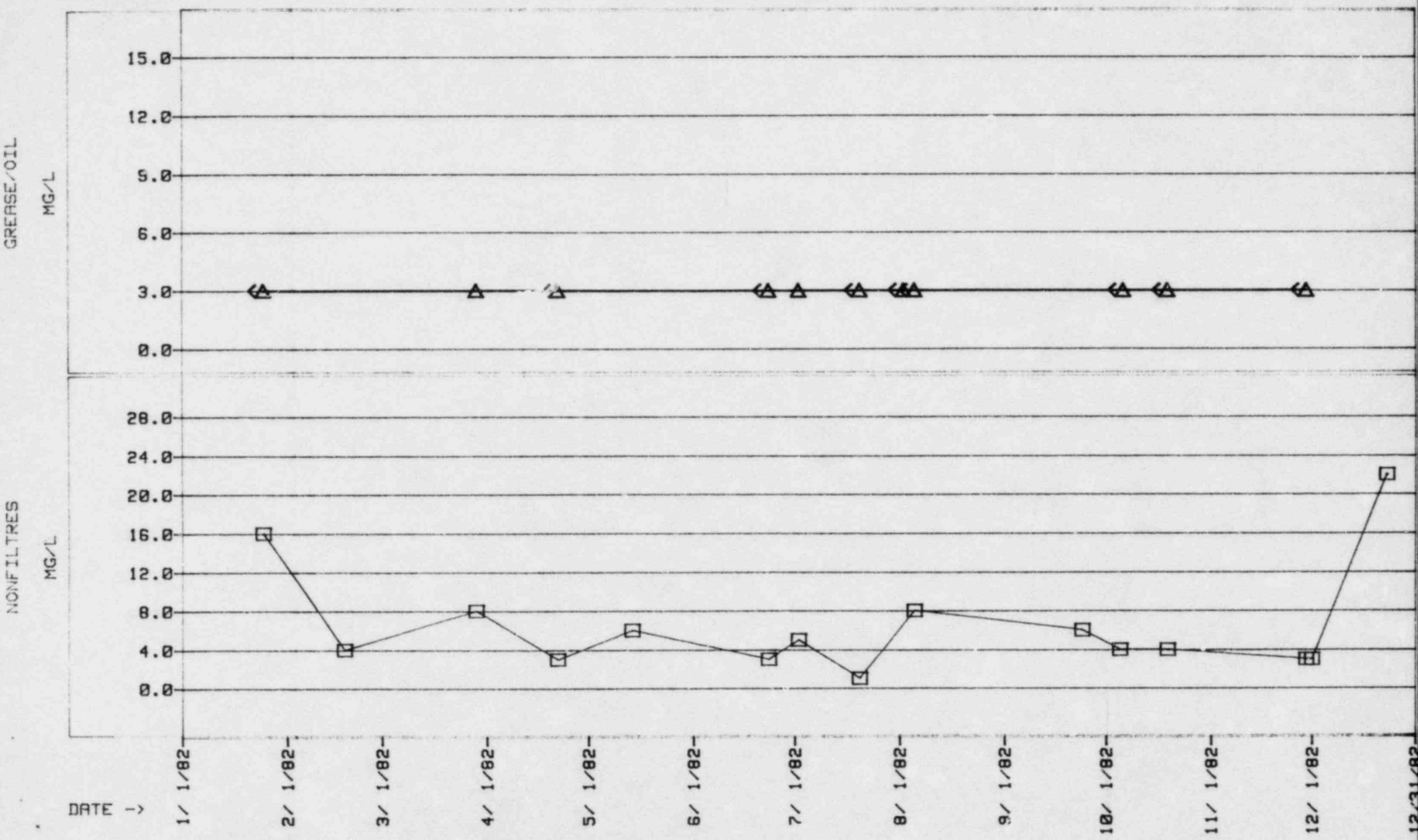
NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

NPDES - 001D LRW



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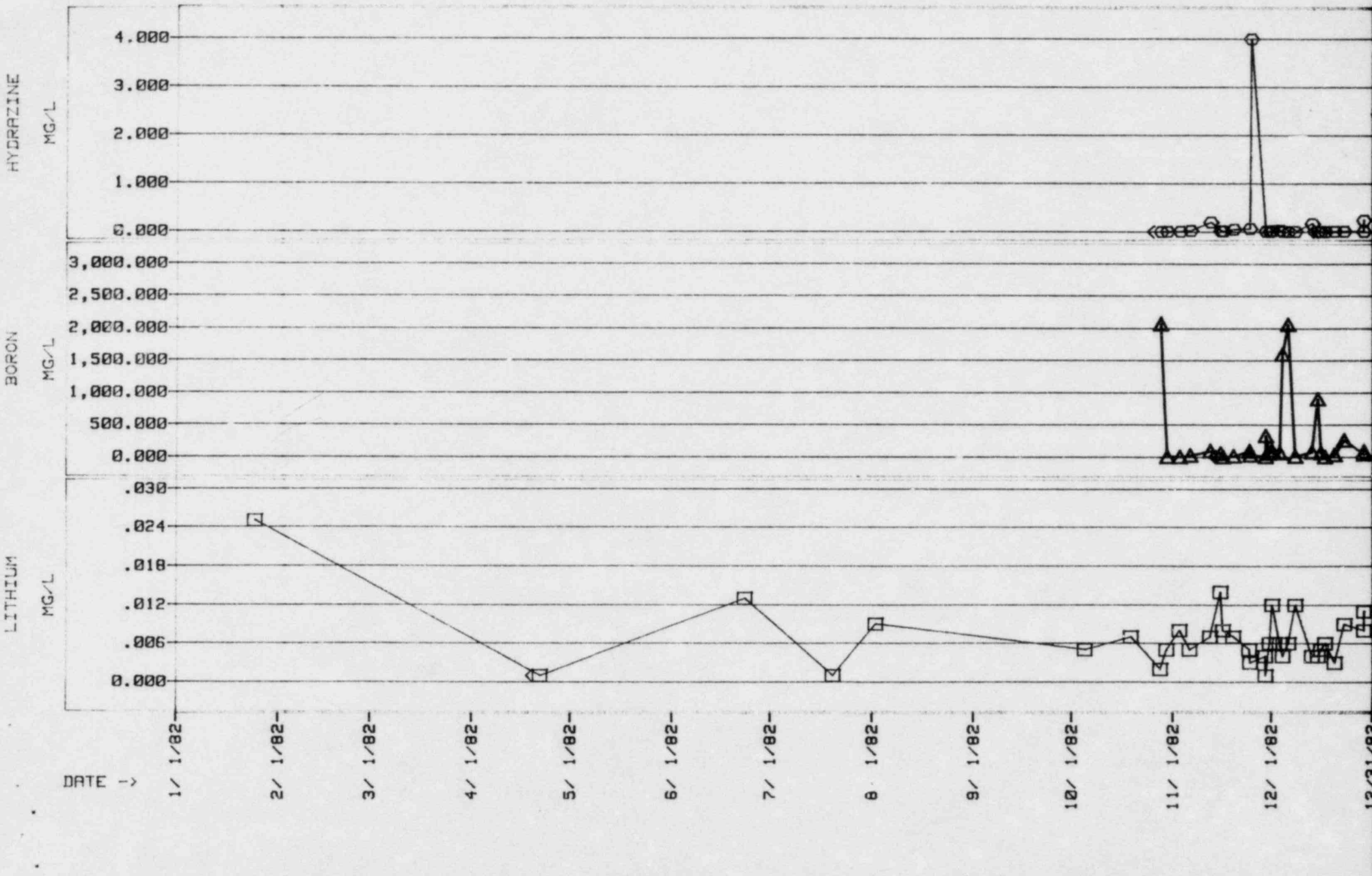
NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

NPDES - 001D LRW



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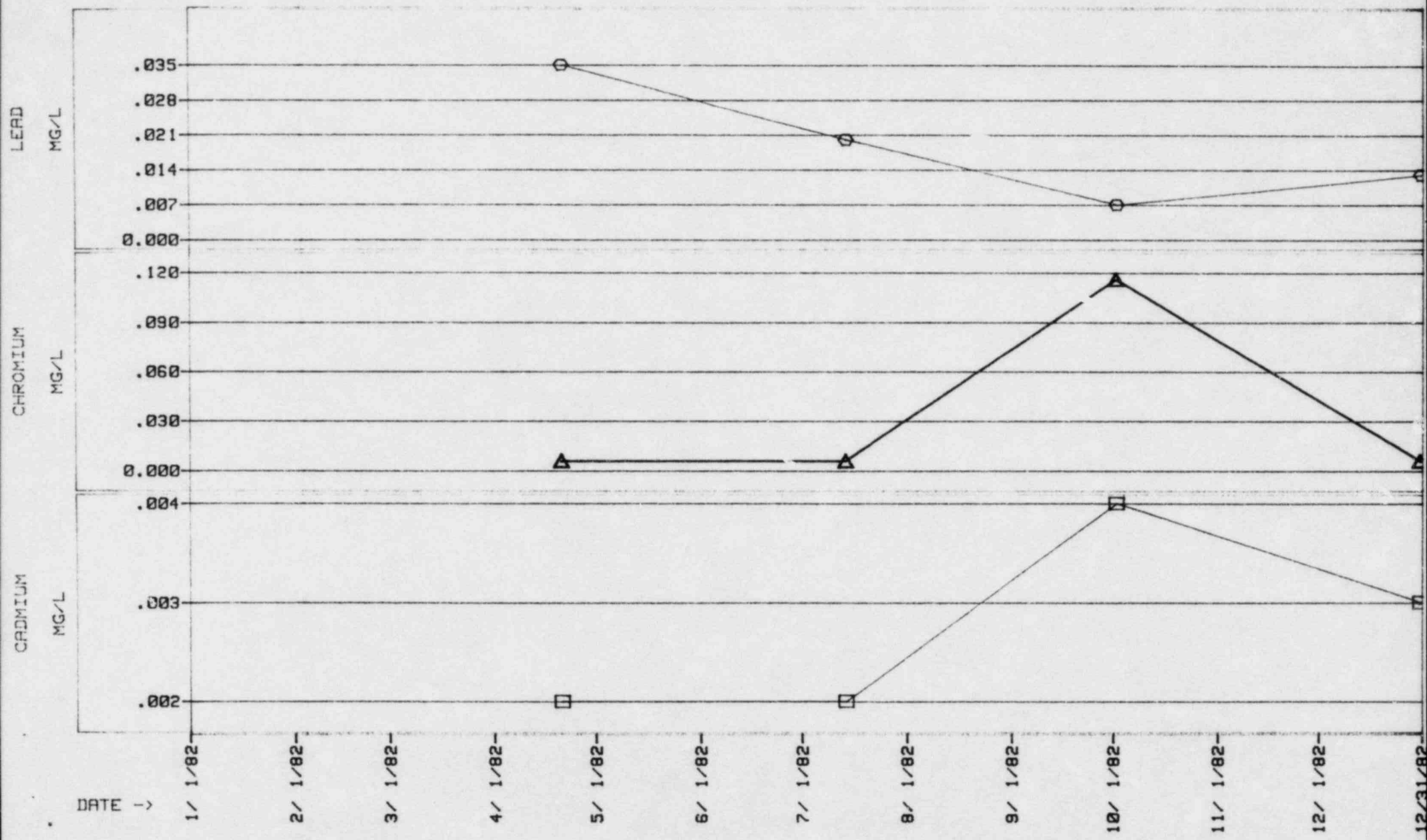
NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

NPDES - 001D LRW



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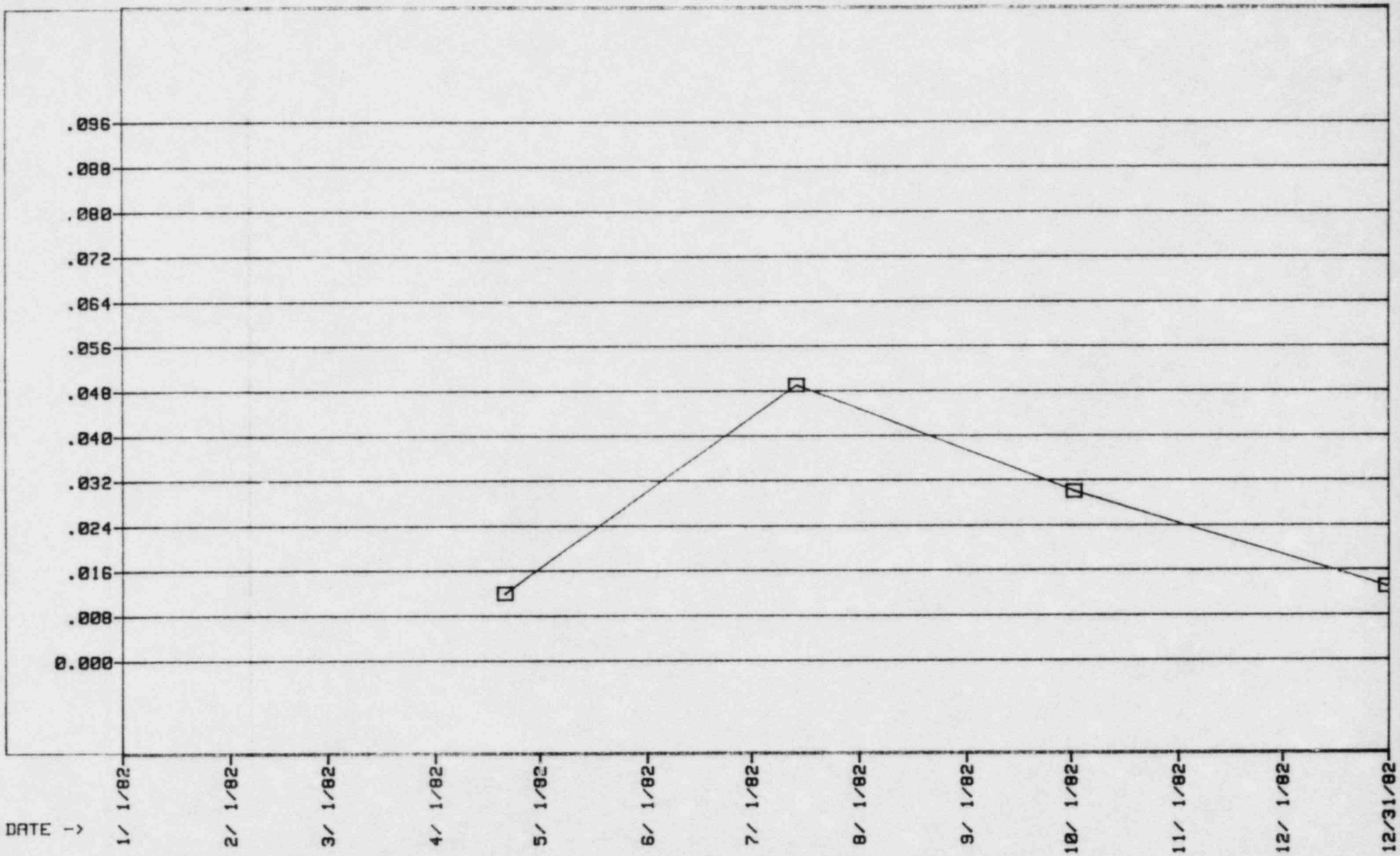
NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

NPDES - 001D LRW



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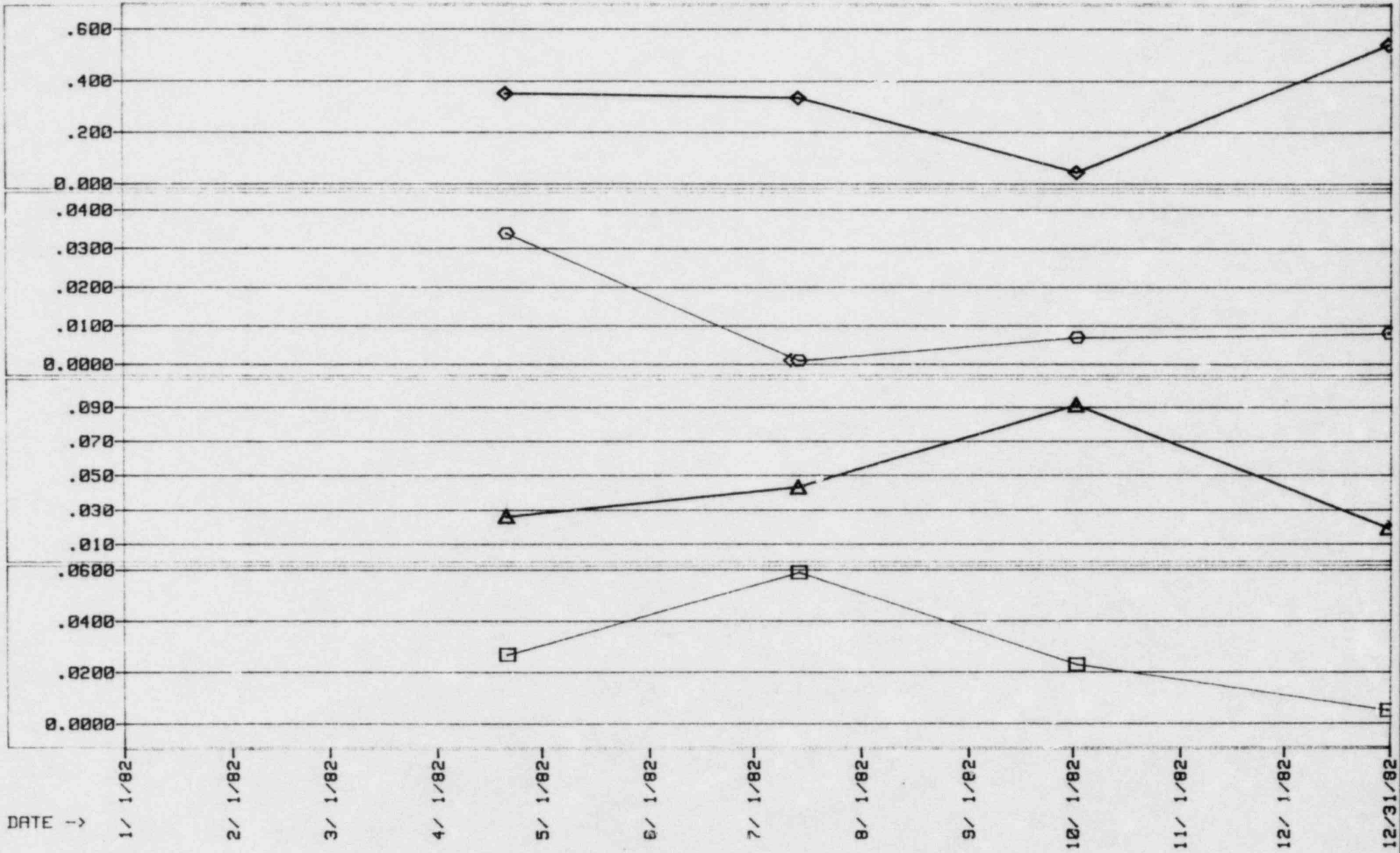
NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

NPDES - 001D LRW



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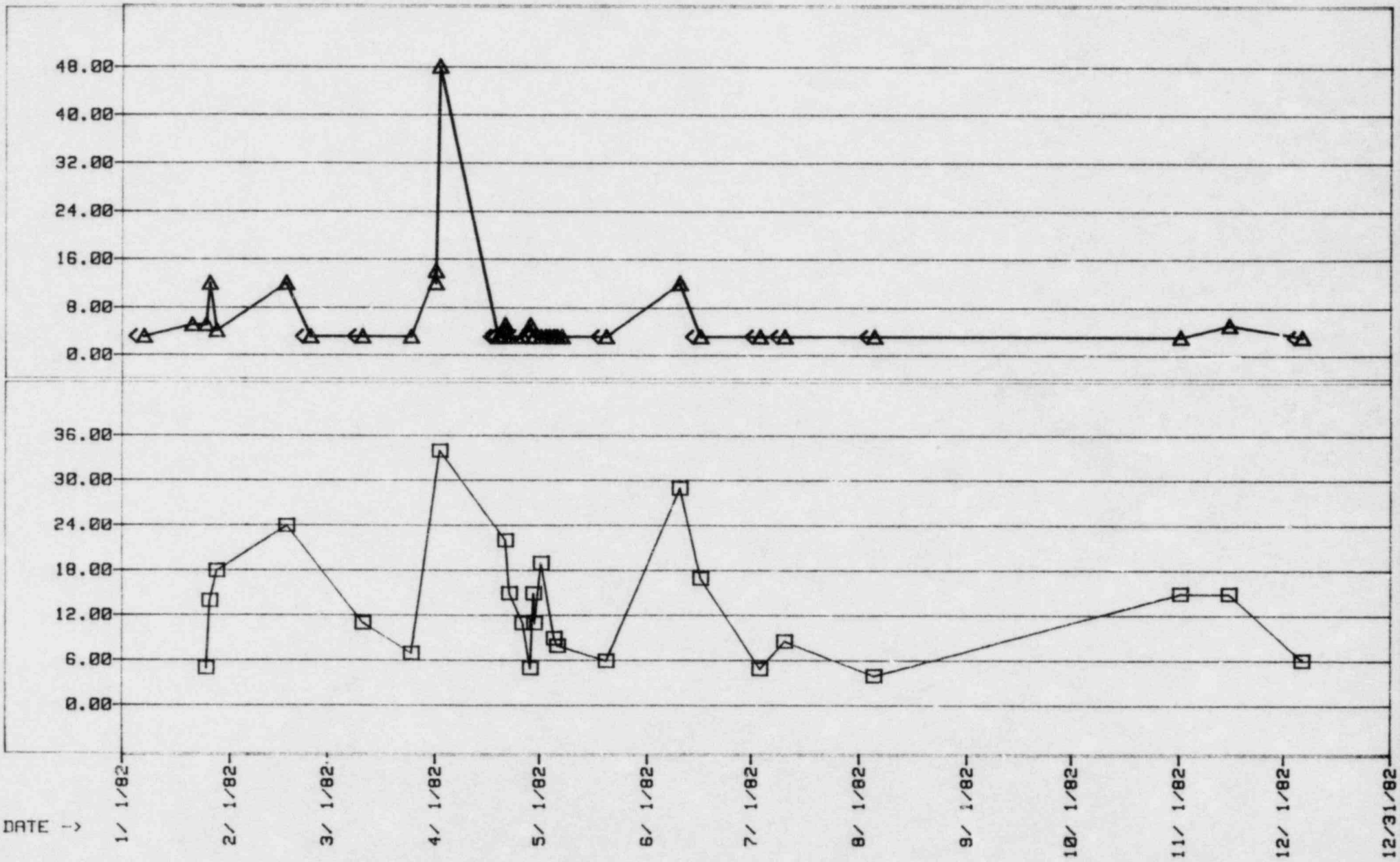
NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

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



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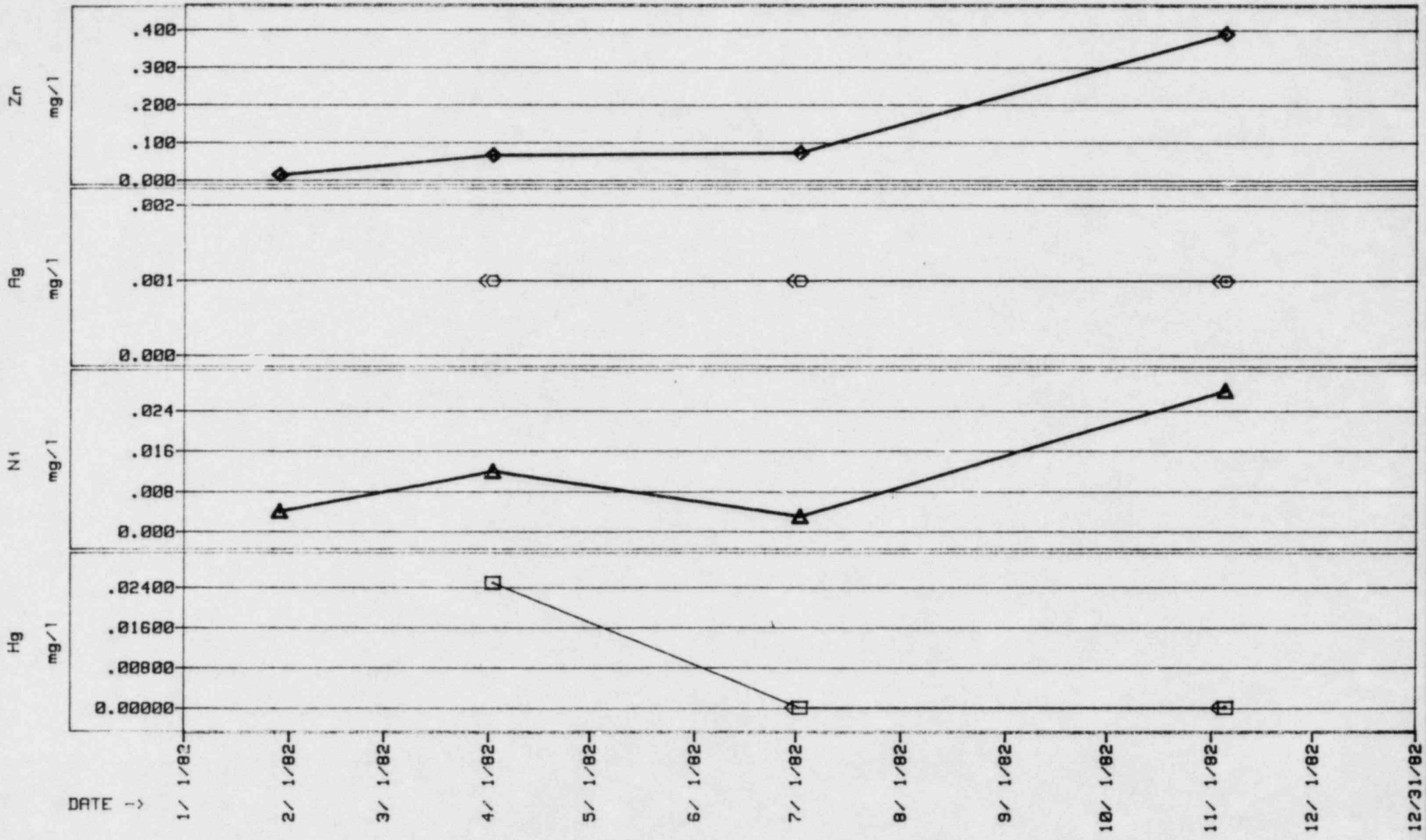
NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

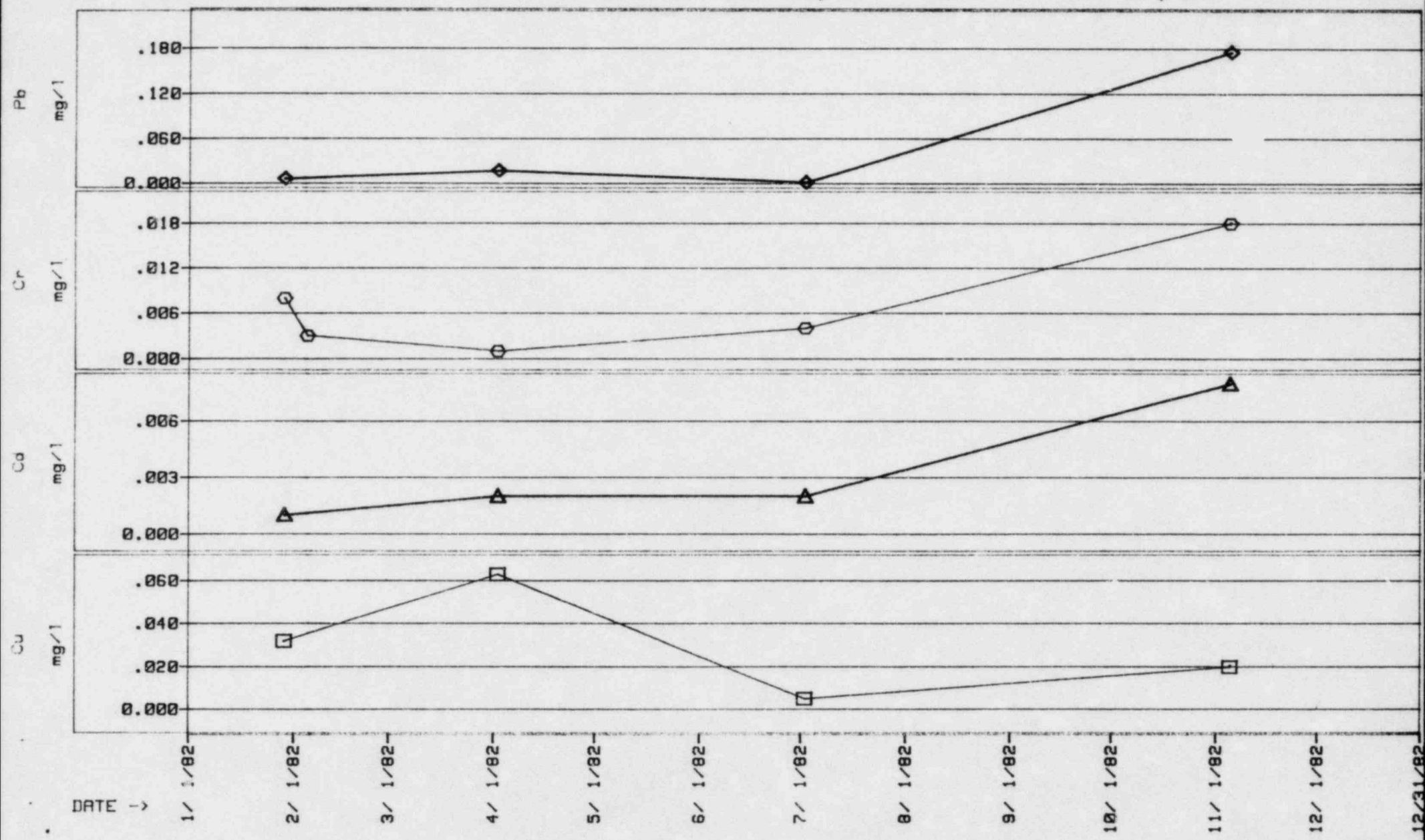
Waste Pond and O.W.S.-Turbine Bld. Sump 001F - O.W.S./Turb. Bld. Sump 001F



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



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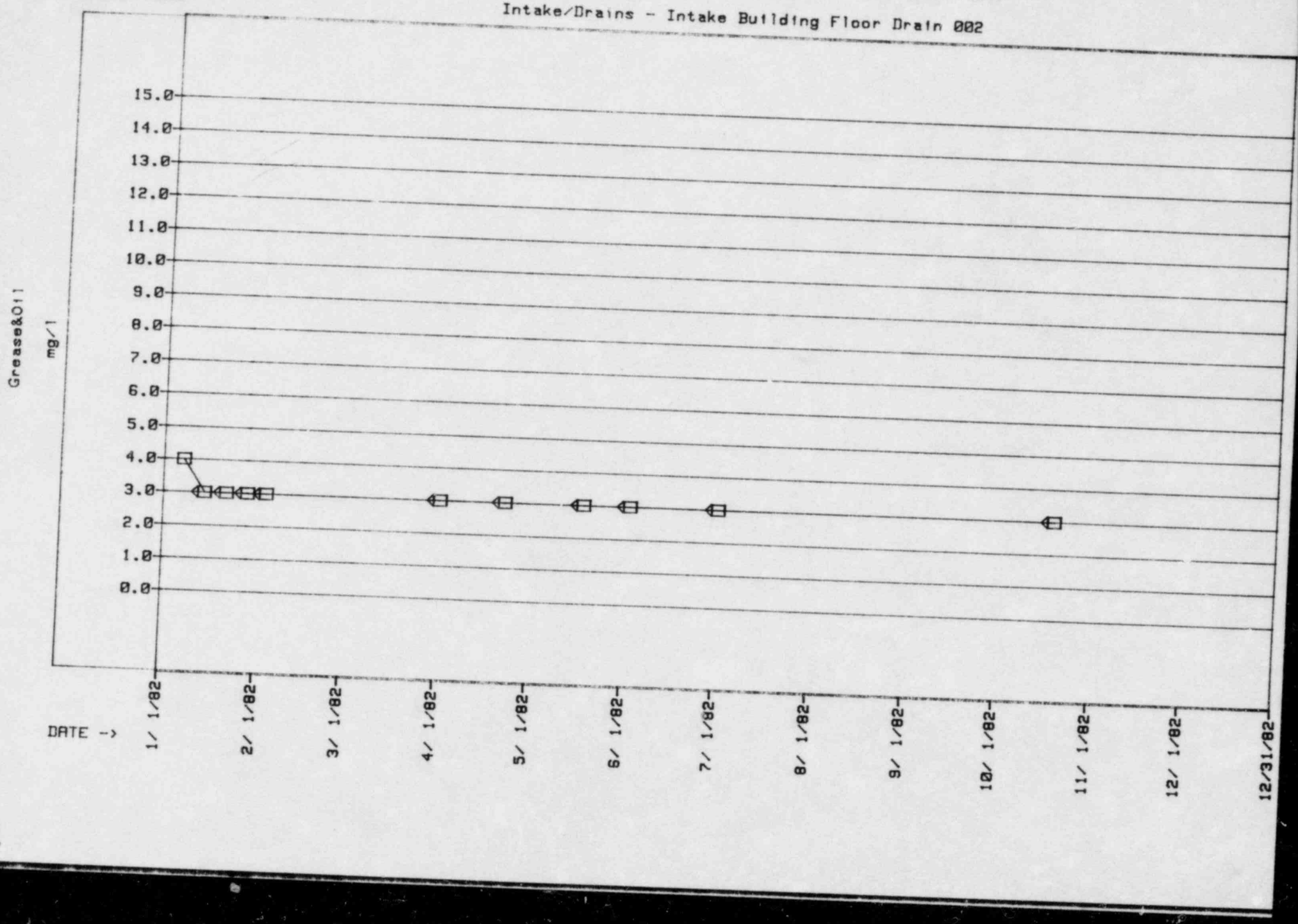
NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

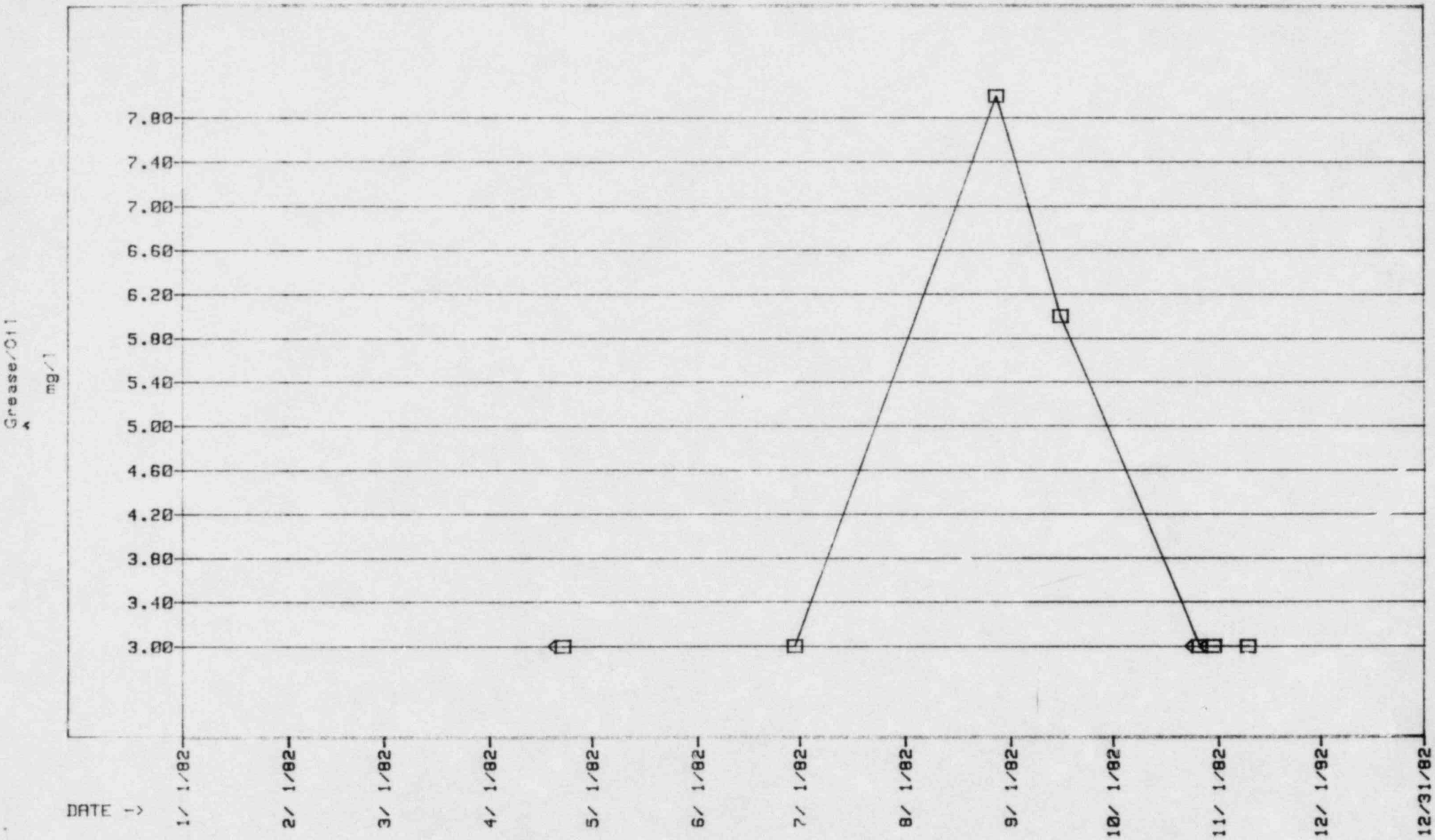
Intake/Drains - Intake Building Floor Drain 002



PG&E

NUCLEAR PLANT OPERATIONS - DIABLO CANYON POWER PLANT

Intake/Drains - Yard Storm Drains 005



APPENDIX 3

Thermal Effects Monitoring Report
1982 Annual Report