R0D 98551
R0[illegible]054 now!

START DATA SECTION

PLANT OPERATING MODE 1 UNIT NO. 1+2 YES NO

6.0 PRECAUTIONS AND LIMITATIONS

6.1 Person making breakwater inspection must wear a lifejacket at all times when walking down the breakwater.

6.2 Another person will accompany the person walking down the breakwaters to act as a safety observer.

6.3 All Precautions and Limitations have been read and understood. [✓] [ ]

7.0 PREREQUISITES

7.1. A set of up-to-date National Oceanic and Atmospheric Administration (NOAA) tide tables for the California coastal region must be available for test use. These tables will be kept in the DCPP Engineering Department Performance Engineering Group files.

7.2 For a given month (November through April) in which a visual inspection is being made, use the NOAA tide tables to determine:

7.2.1 Any high tide for the month which is greater than the Mean Lower Low Water Level (MLLW) and occurs during daylight hours. MLLW is (-)2.6 feet MSL, or 2.6 feet below mean sea level for the plant site.

7.2.2 The day of the month on which it occurs.

7.2.3 The time of day at which the selected high tide occurs.

DCPP ISSUED FOR USE
BY: [signature] DATE: 4-16-92
TERMINATION DATE: 5-14-92

0527 42216

	YES	NO
7.2.4 Wave forecasts will be obtained from DER personnel at the intake cove's Oceanographic Laboratory. This data can be used to determine whether the breakwaters may be walked down safely.		

****

CAUTION: Do not schedule a visual inspection of the breakwaters if DER wave forecasts predict high waves, or if a storm is in progress. Obtain DER input on advisability of a breakwater inspection, based on their wave predictions.

****

7.3 If it is determined that the sea is too rough to allow a walkdown of the breakwaters on the day originally selected, select an alternate day meeting the specifications in Step 7.2 above.

7.3.1 As wave conditions permit on the day chosen in either Step 7.2 or Step 7.3, the Test Director will proceed to perform the breakwater visual inspection. However, if walkdown of the breakwaters proves to be impossible for a given month, steps will be taken to visually inspect them from a sufficient vantage point to check their condition by other means than a walkdown. Specifically, if a walkdown cannot be performed, then from the vantage point cited above, the breakwaters will both be verified to be above MLLW. Also, any degradation signs, as delineated in Steps 5.2.1 through 5.2.5 of this procedure, that are observed will be noted on the surveillance test procedure per the instructions of Step 5.2.6 and photographed. Any photographs taken will be included with the completed test for that month.

7.4 Photographic data may be obtained from the Environmental Engineering Unit of the DER Ecological Services Group which shows the condition of each breakwater for the annual breakwater inspection and survey.

	YES	NO	N/A

7.5 Survey results must be obtained from the General Office Land Department after the annual breakwater inspection and survey are complete.

7.6 Any additional photographs required as a result of monthly inspections will be obtained from the DER Ecological Services Group or by the plant staff.

7.7 Security will be notified that a walkdown of the breakwaters is planned. Notification will be made by the Test Director prior to the walkdown.

7.8 The keys to the locks on the gates barring access to the breakwaters will be secured prior to the walkdown. The gate padlocks require a No. 2 key.

8.0 PROCEDURE

8.1 Monthly Surveillance

8.1.1 Verification of Breakwater Heights

a. From a suitable vantage point, visually verify that the full lengths of both east and west breakwaters are above MLLW. Basically, this consists of determining that the tide level at the time of inspection is greater than MLLW and that the full length of each breakwater is above this level.

Is the full length of each breakwater above mean lower low water level (MLLW)?* [✓] [ ]

*If not, identify which concrete cap section(s) on the affected breakwater(s) do not meet the Acceptance Criteria by circling it/them on Figure 1 and/or Figure 2 of this test procedure. Make reference to the section or sections of concern in the "Remarks" section of this test procedure.

		YES	NO	N/A
b.	If the answer to Step 8.1.1.a. above is "no", have 500 feet or more of either breakwater been reduced to less than MLLW?	[ ]	[ ]	[✓]
	If this question is answered "yes", immediately notify the Shift Foreman, comply with the ACTION statement of Tech. Spec. 3.7.13, and submit an Action Request.			
c.	If the answer to Step 8.1.1.b. above is "NO", approximately what length (in feet) of the affected breakwater(s) has been reduced to less than MLLW? (Assistance in determining this information may be obtained from the GC Civil Engineering Department.)			
	East Breakwater: _____ Ft.			
	West Breakwater: _____ Ft.			
d.	Is the ACTION statement of Tech. Spec. 3.7.13 being complied with?	[ ]	[ ]	[✓]

8.2 Walkdown of East Breakwater

8.2.1 Walk down the 17 concrete cap sections of the east breakwater and determine if: 1) any vertical or horizontal displacement of any cap section has occurred with respect to the other cap sections; 2) any cap section has cracked or lost material due to wave action and 3) any of the tri-bars which are in direct contact with any side of any cap section has cracked or lost material due to wave action. If any such conditions are observed, circle the affected cap section or sections or the approximate location(s) of the cracked/wave damaged tri-bar(s) on Figure 1 of this test procedure. If no displacement/damage is observed for a given cap section, simply mark N/A in the "Comments" space

for that section. This instruction also applies for inspected tri-bars and the sea wall. Also, determine if the sea wall beyond the base of the breakwater (see Figure 1) has 1) cracked, 2) settled or 3) lost material due to wave action. If a walkdown cannot be performed for a given month, follow the pertinent instructions of Step 7.3.1 regarding breakwater visual inspection alternatives.

NOTE: Breakwater concrete cap sections are approximately 30 feet in length. If the lines of demarcation between the cap sections are not clearly visible, simply determine the condition of the cap in 30 foot lengths from its tip to its base.

CAP SECTION NO.**	COMMENTS	N/A
1		[4]
2		[4]
3		[4]
4		[4]

**Refer to Figure 1 of this procedure for cap section numbering scheme.

CAP SECTION NO.**	COMMENTS	N/A
5		[✓]
6		[ ]
7		[✓]
8		[✓]
9		[✓]
10		[✓]
11		[✓]

**Refer to Figure 1 of this procedure for cap section numbering scheme.

CAP SECTION NO.**	COMMENTS	
12		N/A [✓]
13		[✓]
14		[✓]
15		[✓]
16		[✓]
17		[✓]
SEA WALL		[✓]

**Refer to Figure 1 of this procedure for cap section numbering scheme.

8.3 Walkdown of West Breakwater

8.3.1 Walk down the 29 concrete cap sections of the west breakwater. Follow the guidelines of the instructions of Step 8.2.1 of this procedure concerning making notations on Step 8.3.1 "Comments" spaces and Figure 2 to document any observed cap section displacement/cracking/wave damage or tri-bar cracking/wave damage. If a walkdown cannot be performed for a given month, follow the pertinent instructions of Step 7.3.1 regarding breakwater visual inspection alternatives. Circle any affected cap section/sections or cracked/wave damaged tri-bar approximate locations on Figure 2 of this procedure.

CAP SECTION NO.***	COMMENTS	N/A
1		[✓]
2		[ ]
3		[✓]
4		[ ]
5		[ ]

***Refer to Figure 2 of this procedure for cap section numbering scheme.

TITLE: SURVEILLANCE OF DIABLO CANYON BREAKWATERS

CAP SECTION NO.***	COMMENTS	N/A
6		[ ]
7		[ ]
8		[ ]
9		[ ]
10		[ ]
11		[ ]
12		[ ]

***Refer to Figure 2 of this procedure for cap section numbering scheme.

CAP SECTION NO.***	COMMENTS	N/A
13		[ ]
14		[ ]
15		[ ]
16		[ ]
17		[ ]
18		[ ]
19		[ ]

***Refer to Figure 2 of this procedure for cap section numbering scheme.

CAP SECTION NO.***	COMMENTS	N/A
20		✓
21		✓
22		✓
23		✓
24		✓
25		✓
26		✓

***Refer to Figure 2 of this procedure for cap section numbering scheme.

CAP SECTION NO.***	COMMENTS	N/A
27		[4]
28		[4]
29		[4]

Inspection/Walkdown performed by: ANASTASIO, JOYCE, YONAN, WRIGHT, FONG, COWARD

Date 4-16-92 Time 17:00

8.4 Photographic Data

8.4.1 Attach to this completed test photographs of any cap section(s) found to be displaced/cracked/wave damaged and/or tri-bar(s) found to be cracked/wave damaged during the breakwater walkdowns.

NOTE: This data may be secured with the help of DER on-site personnel, who operate photographic equipment daily on the plant site. Also, plant personnel may obtain such data by taking required photographs themselves.

***Refer to Figure 2 of this procedure for cap section numbering scheme.

YES NO

8.5 Annual Survey Data

8.5.1 During the month in which the annual survey of the breakwaters is performed, walk down and visually inspect the breakwaters per the instructions of Sections 8.1 through 8.4 above. If a walkdown of the breakwaters is impossible, follow the instructions of Step 7.3.1. above. Secure copies of the results of the breakwater surveys from the General Office Civil Engineering Department and reproductions of photos taken of the breakwaters during the surveys. Attach this data to the completed procedure. ✓

9.0 DATA REDUCTION AND REPORTING OF RESULTS

9.1 Verify Acceptance Criteria have been satisfied:

9.1.1 Does each Breakwater meet the Acceptance Criteria of this procedure? [✓] [ ][1]

9.2 If the Acceptance Criteria are not met, initiate an ACTION REQUEST and immediately notify the Shift Foreman. AR#_____

9.3 REMARKS: Explain any NO or N/A entries in any of the data and list any discrepancies found:

_____

_____

_____

_____

[1] If either or both breakwaters do not meet the test Acceptance Criteria, submit an Action Request and comply with the ACTION statement of Tech. Spec. 3.7.13. If 500 feet or more of either or both of the breakwaters do not meet the Acceptance Criteria, immediately notify the Shift Foreman, comply with ACTION statement b. of Tech. Spec. 3.7.13 immediately, and then submit an Action Request and comply with ACTION statement a. of Tech. Spec. 3.7.13.

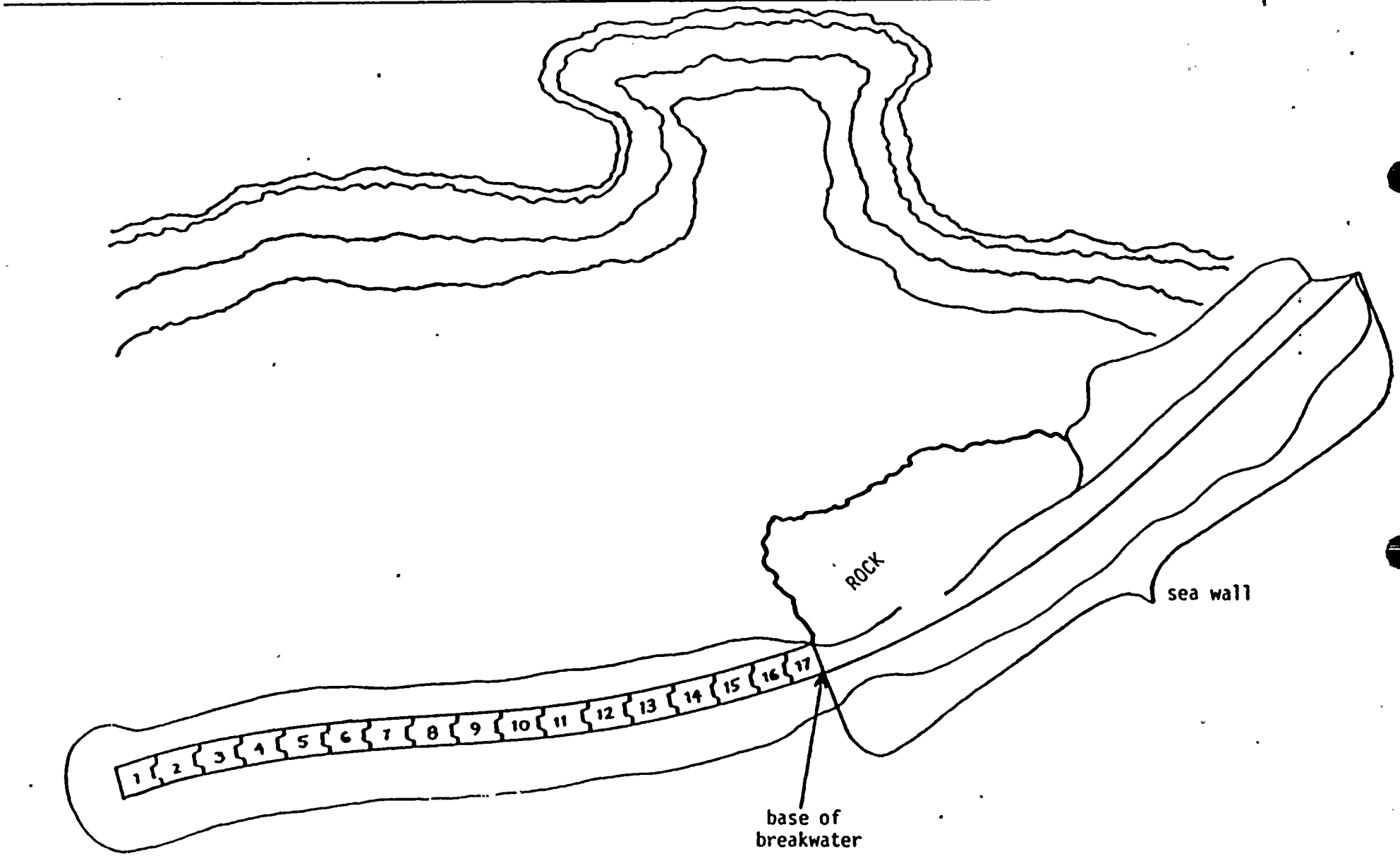
		YES	NO
9.4	If this test was a complete test and both Breakwaters met the Acceptance Criteria, then update the Master Surveillance Schedule per AP C-3S1.		
	9.4.1 Was the Master Schedule updated?	[✓]	[ ]
9.5	Performed by (PPE): T. Chrisp Date April 29, 1992		
9.6	Forward completed procedure to the Test Coordinator (TC).	[✓]	[ ]
9.7	(TC) Distribute procedure to PPE.	[✓]	[ ]
9.8	(PPE) Review procedure for completeness and acceptability.	[✓]	[ ]
9.9	REMARKS: Annual Survey Results Attached		
9.10	Reviewed by (PPE): Alan Spencer Date 4/29/92		
		YES	NO
9.11	A copy of this completed and reviewed test has been submitted to the Regulatory Compliance Dept.	[✓]	[ ]
9.12	(PPE) Submit completed procedure to the Test Coordinator for filing.		

Test Coordinator – Please Do THIS

Thanx

PACIFIC GAS AND ELECTRIC COMPANY
DIABLO CANYON POWER PLANT UNIT NOS. 1 AND 2
ATTACHMENT 11.1

TITLE: EAST BREAKWATER (FIGURE 1) - STP M-90



X000596a.06 19II

Average Coordinate for each point.

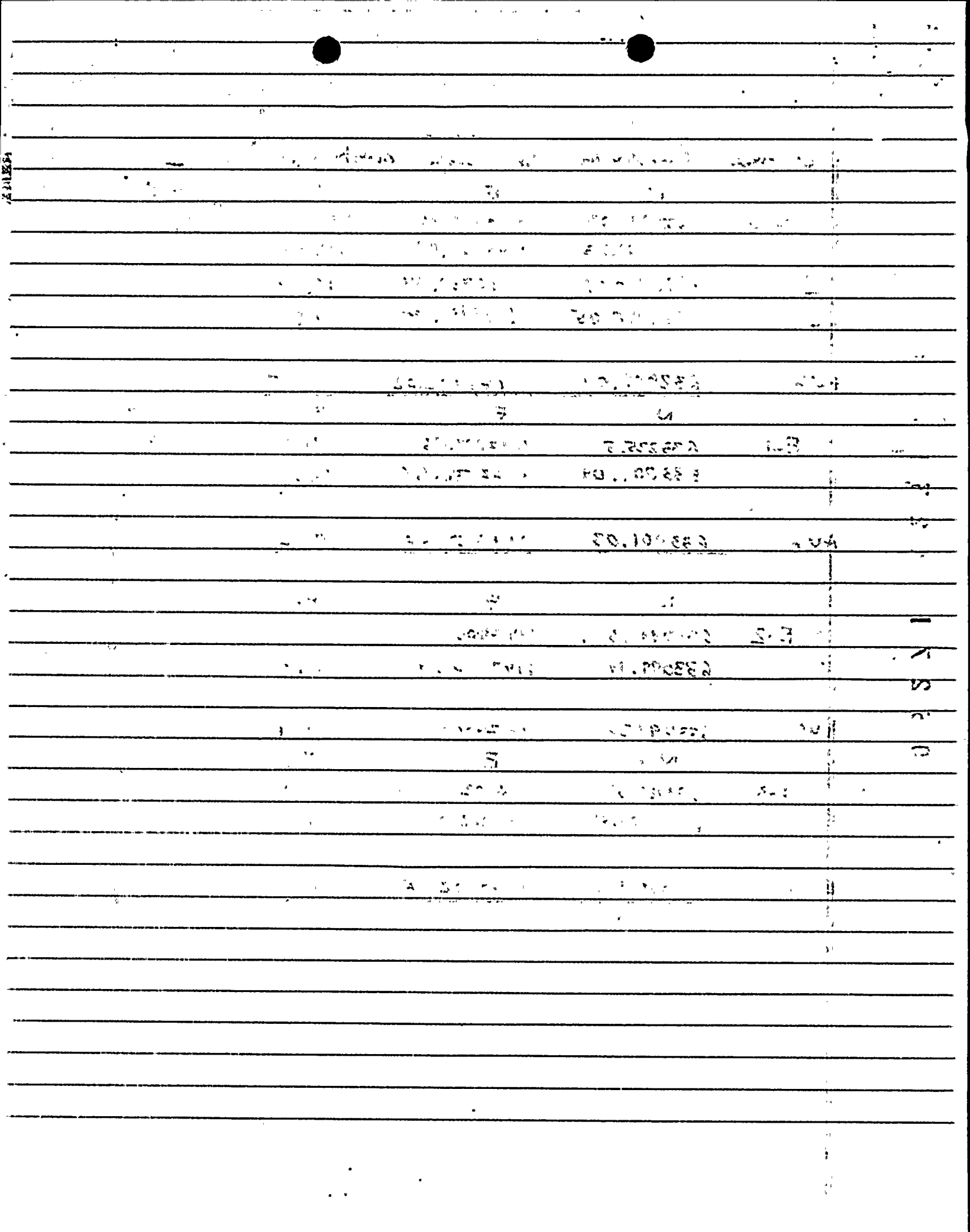
	N	E	El	Comp Pt
W-6A	632990.03	1146932.03	19.79	11
	632990.03	1146932.07	19.77	12
	632990.06	1146931.98	19.77	27
	632990.05	1146931.98	19.80	28
AVG	632990.04	1146932.02	19.78	

	N	E	El	Comp Pt
E-1	633001.01	1147550.87	19.63	17
	633001.04	1147550.86	19.60	18
AVG	633001.03	1147550.87	19.62	

	N	E	El	Comp Pt
E-2	633099.25	1147400.32	19.45	15
	633099.19	1147400.34	19.42	16
AVG	633099.22	1147400.33	19.44	

	N	E	El	Comp Pt
E-3	633225.51	1147202.96	19.09	13
	633225.45	1147202.95	19.06	14
AVG	633225.48	1147202.96	19.08	

4 2 3 1 2 7 1 0 5



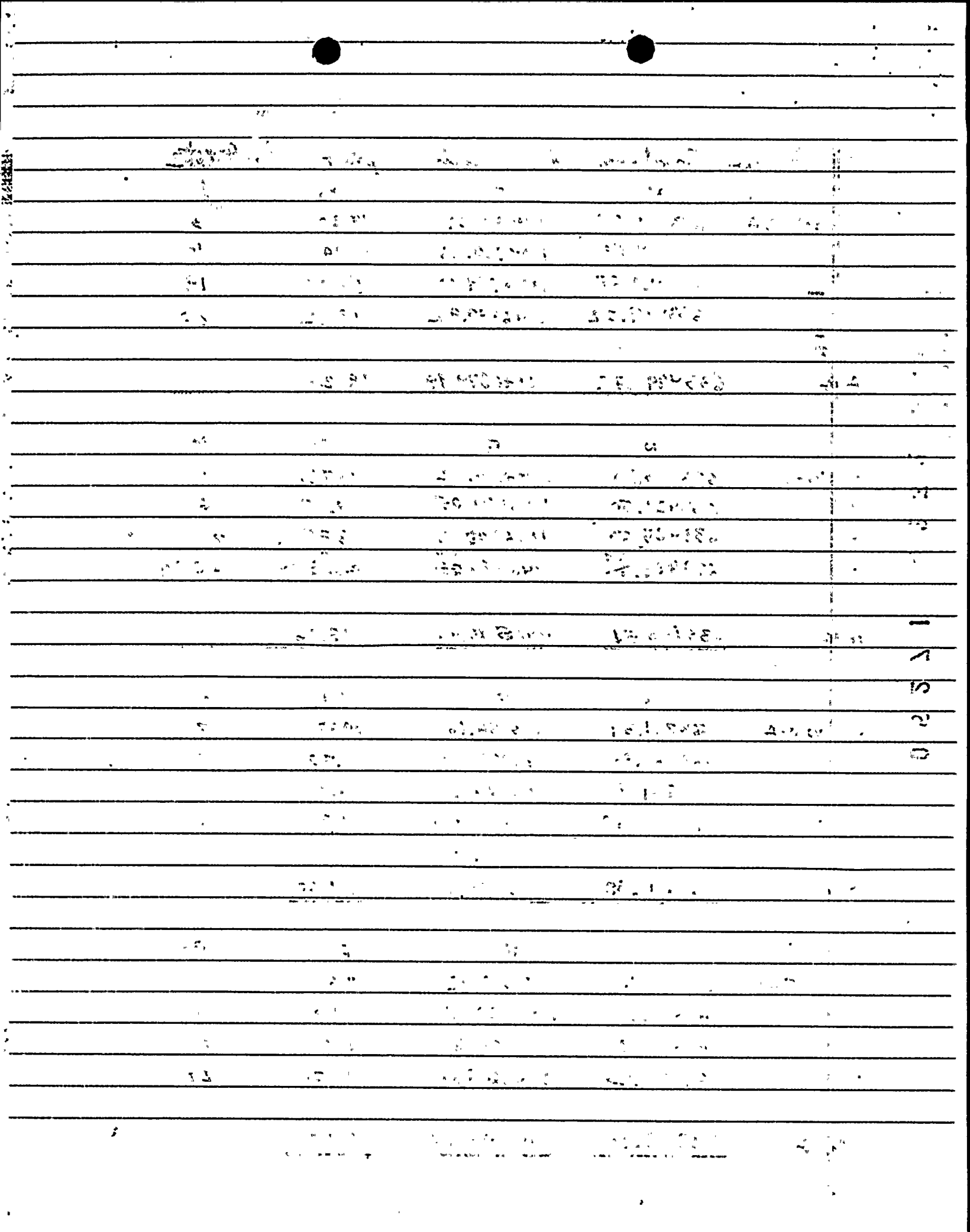
Average Coordinates for each point

		N	E	El	Computer pt
	W-2A	633499.68	1146880.01	19.20	3
		633499.69	1146880.03	19.19	4
		633499.78	1146879.94	19.24	19
		633499.72	1146879.92	19.22	20
	AVG	633499.72	1146879.98	19.21	

		N	E	El	Pt
	W-3A	633423.49	1146891.02	18.75	5
		633423.50	1146891.05	18.75	6
		633423.59	1146890.94	18.75	21 *
		633423.57 ~~.60~~	1146890.94 ~~.94~~	18.78 ~~22.30~~ gm	22 29
	AVG	633423.5~~8~~	1146~~8~~90.99	18.76	

		N	E	El	Pt
	W-4A	663261.34	1146884.16	19.72	7
		663261.34	1146884.17	19.70	8
		663261.42	1146884.05	19.74	25
		663261.40	1146884.04	19.75	26
	AVG	663261.38	1146884.11	19.73	

		N	E	El	Pt
	W-5A	633112.16	1146888.72	19.60	9
		633112.19	1146888.75	19.58	10
		633112.23	1146888.61	19.60	23
		633112.23	1146888.61	19.57	24
	AVG	633112.20	1146888.67	19.59	



To: pgdl@regcom,vrfl,tcjl,kssl@necsme@sfnpg,mgbl,tlgl@regcom
Cc: Arun Sudhaker@NECSCE@SFNPG
Bcc:
From: JEA3@SysEng@DCPP
Subject: BREAKWATER SURVEY RESULTS
Date: Friday, April 17, 1992 15:25:37 PDT
Attach:
Certify: N
Forwarded by:

The annual breakwater surevey requried per technical specification 3/4.7.13 has been completed by Tech Services Engineering. As usual, no net displacement of the breakwater survey points was detected.

The following survey results can be referenced to drawing 349070.

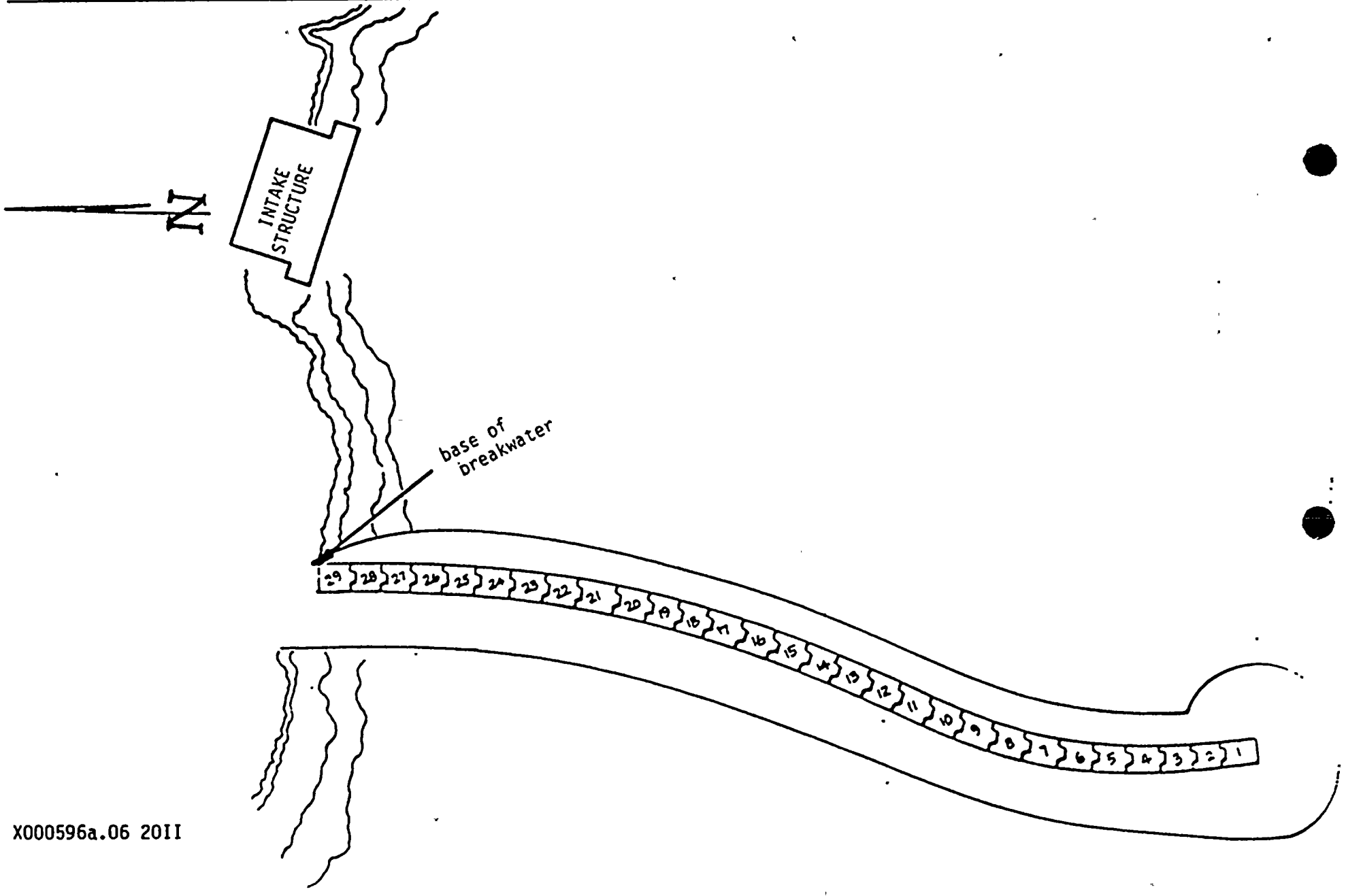
point	northing	easting	elevation
E-1	633001.03	1147550.87	19.62
E-2	633099.22	1147400.33	19.44
E-3	633225.48	1147202.96	19.08
W-2A	633499.72	1146879.98	19.21
W-3A	633423.54	1146890.99	18.76
W-4A	633261.38	1146884.04	19.73
W-5A	633112.20	1146888.67	19.59
W-6A	632990.04	1146932.02	19.78

This information is to be included in the MAY operating report. Photographs will be provided to Reg Compliance.

Joe Anastasio

PACIFIC GAS AND ELECTRIC COMPANY
DIABLO CANYON POWER PLANT UNIT NOS. 1 AND 2
ATTACHMENT 11.2

TITLE: WEST BREAKWATER (FIGURE 2) - STP M-90



DCPP BREAKWATER SURVEY RESULTS

DATE	E - 1 COORDINATE N	E	ELEV	E - 3 COORDINATE N	E	ELEV	W - 3A COORDINATE N	E	ELEV	W - 5A COORDINATE N	E	ELEV
05/01/84	633001.02	1147550.91	19.63	633225.47	1147203.01	19.10	633423.53	1146891.05	18.85	633112.22	1146888.74	19.65
03/01/85	633001.03	1147550.93	19.63	633225.47	1147203.04	19.09	633423.54	1146891.06	18.83	633112.22	1146888.76	19.63
DIFF:	.01	.02	.00	.00	.03	-.01	.01	.01	-.02	.00	.02	-.02
04/08/86	633001.02	1147550.91	19.63	633225.48	1147203.02	19.09	633423.53	1146891.05	18.80	633112.20	1146888.74	19.60
DIFF	-.01	-.02	.00	.01	-.02	.00	-.01	-.01	-.03	-.02	-.02	-.03
03/30/87	633001.01	1147550.92	19.63	633225.45	1147203.00	19.09	633423.54	1146891.02	18.79	633112.21	1146888.70	19.59
DIFF	-.01	.01	.00	-.03	-.02	.00	.01	-.03	-.01	.01	-.04	.01
04/25/88	633001.01	1147550.90	19.63	633225.46	1147203.00	19.09	633423.51	1146891.02	18.76	633112.19	1146888.70	19.56
DIFF	.00	-.02	.00	.01	.00	.00	-.03	.00	-.03	-.02	.00	.03
05/17/89	633001.00	1147550.91	19.64	633225.46	1147202.98	19.09	633423.50	1146891.03	18.82	633112.19	1146888.75	19.59
DIFF	-.01	.01	.01	.00	-.02	.00	-.01	.01	.06	.00	.05	.03
05/30/90	633001.00	1457550.89	19.65	633225.44	1147202.97	19.08	633423.50	1146891.06	18.77	633112.16	1146888.70	19.58
DIFF	.00	-.02	.01	-.02	-.01	-.01	.00	.03	-.05	-.03	-.05	-.01
6/3/91	1.00	50.90	19.61	25.38	01.07	19.05	413.55	890.96	18.76	12.22	88.65	19.56

DATE	E - 2 COORDINATE N	E	ELEV	W - 2A COORDINATE N	E	ELEV	W - 4A COORDINATE N	E	ELEV	W - 6A COORDINATE N	E	ELEV
05/01/84	633099.23	1147400.37	19.43	633499.74	1146880.05	19.29	633261.39	1146884.16	19.75	632990.07	1146932.06	19.81
03/01/85	633099.24	1147400.39	19.43	633499.74	1146880.05	19.27	633261.39	1146884.17	19.74	632990.08	1146932.08	19.80
DIFF:	.01	.02	.00	.00	.00	-.02	.00	.01	-.01	.01	.02	-.01
04/08/86	633099.23	1147400.38	19.43	633499.73	1146880.03	19.26	633261.38	1146884.16	19.73	632990.05	1146932.09	19.79
DIFF	-.01	-.01	.00	-.01	-.02	-.01	-.01	-.01	-.01	-.03	.01	-.01
03/30/87	633099.22	1147400.38	19.44	633499.73	1146880.01	19.25	633261.39	1146884.13	19.73	632990.08	1146932.05	19.79
DIFF	-.01	.00	.01	.00	-.02	-.01	.01	-.03	.00	.03	-.04	.00
04/25/88	633099.22	1147400.38	19.43	633499.71	1146880.01	19.21	633261.36	1146884.14	19.70	632990.05	1146932.05	19.77
DIFF	.00	.00	-.01	-.02	.00	-.04	-.03	.01	-.03	-.03	.00	-.02
05/17/89	633099.21	1147400.37	19.44	633499.70	1146880.03	19.22	633261.35	1146884.17	19.72	632990.04	1146932.11	19.81
DIFF	-.01	-.01	.01	-.01	.02	.01	-.01	.03	.02	-.01	.06	.04
05/30/90	633099.20	1147400.36	19.46	633499.71	1146880.04	19.24	633261.35	1146884.15	19.73	632990.02	1146932.08	19.81
Diff	-.01	-.01	.02	.01	.01	.02	.00	-.02	.01	-.02	-.03	.00
	99.21	00.35	19.42	99.74	71.15	17.20	61.39	84.09	19.71	90.07	32.02	19.78

Breakwater Survey Data

Theod. Loc.	Target Loc.	H_{Inst}	H_{Targ}	Horiz Angle	Vert Angle	Slope Dist	Horiz. Dist	Vert Dist	Rod Bd (Initial)	Notes (Wide small)
D Rev	A	4.75	4.16'	179/59/21 Set 0	269/10/19	1506.05	1505.89	-21.72	JEA	~~PT 19~~
D Rev	W-2A	4.75	5.035	344/45/47	267/29/58	1258.27	1257.08	-54.87	JEA	PT 19.
D	W-2A	4.75	5.035'	344/45/37	92/30/06	1258.28	1257.08	-54.91	JEA PEY	PT 20
D Rev	W-3A	4.75	5.028	341/24/39	267/25/31	1233.30	1232.06	-55.37	JEA	PT 21
D	W-3A	4.75	5.02	341/29/36	92/34/24	1233.30	1232.06	-55.35	JEA PEY	PT 22
D Rev	W-5A	4.75	4.84	326/51/07	267/26/28	1225.88	1224.66	-54.70	JEA	PT 23 (Check) 01
D	W-5A	4.75	4.84	326/51/07	92/33/37	1225.88	1224.66	-54.72	JEA PEY	PT 24
D Rev	W-6A	4.75	4.96	320/50/07	267/24/07	1201.04	1199.81	-54.41	JEA	PT 25
D	W-6A	4.75	4.96	320/50/06	92/35/47	1201.04	1199.81	-54.38	JEA PEY	PT 26
D Rev	W-4A	4.75	5.12	333/50/29	267/27/33	1225.20	1224.00	-54.28	JEA	wind PT 27
D	W-4A	4.75	5.12	333/50/26	92/32/24	1225.21	1224.01	-54.28	JEA	PT 26 ↓

Breakwater Survey Data

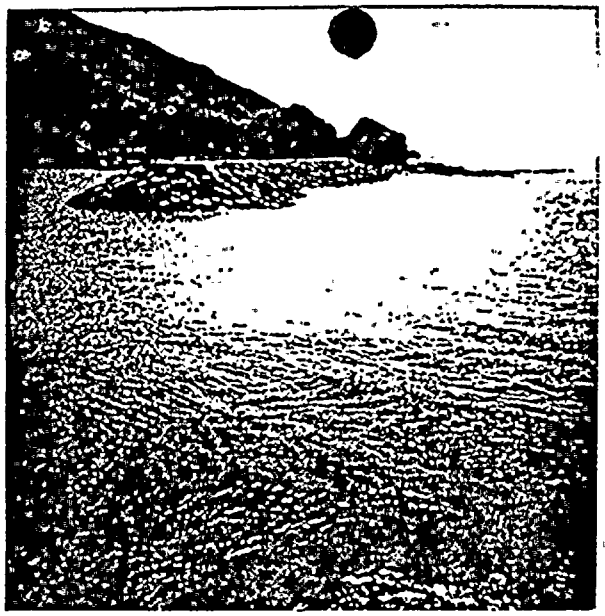
DA

Theod. Loc.	Target Loc.	H_{Inst}	H_{Targ}	Horiz Angle	Vert Angle	Slope Dist	Horiz. Dist	Vert Dist	Rod By (Initial)	Notes (Write small)
Point A BASE	Point A		4.16'							
Point D	Point A	4.75	4.16 4.75 4.75	0	90/44 /45	1506.04	1505.88	-21.75	JEA	Starting Point
Point D	Point A	4.75	4.16	0	90/44/ 52	1506.04	1505.88	-21.86 -21.79	JEA	
Point D Reverse	Point A	4.75	4.16	179/ 59/42	269/10 /12	1506.04	1505.89	-21.77	JEA	NWT
Point D	E-3	4.75	4.99	332/ 05/34	93/29 /02	906.36	904.69	-55.06	JEA	PT 13
Point D Reverse	Pt A	4.75	4.16	179/54 54	269/ 10/08	1506.05	1505.87	-21.80	JEA	
Point D Point Rev	E-3	4.75	4.99	152/05 332 /20	266/ 30/52	906.37	904.69	-55.09	JEA	14
Point D	A	4.75	4.16	0	90/49 /47	—	1505.85	-21.76	JEA	
Point D	E-2	4.75	5.18	321/54 30	94/20 /+005	721.29	719.23	-54.51	JEA	PT 15
~~Point D~~	A	4.75	4.16							
Point D	E-2	4.75	5.18	321/54 18	94/20 /14	721.28	719.21	-54.53	JEA MDW	PT 16
D Reverse	A	4.75	4.16	179/54 46 +0	269/10 /45	1506.04	1505.89	-21.81	JEA	
D Rev	E-1	4.75	5.13	310/01 49 54	264/50 16	604.31	601.86	-54.38	JEA	PT 17
D	E-1	4.75	5.13	310/01 59	95/09 58	604.32	601.86	-54.41	JEA	PT 18

Breakwater Survey Data

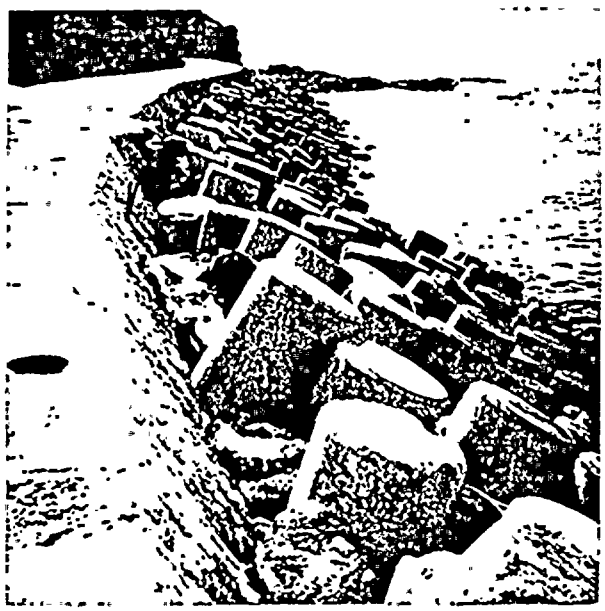
	Theod. Loc.	Target Loc.	H_{Inst}	H_{Targ}	Horiz Angle	Vert Angle	Slope Dist	Horiz. Dist	Vert Dist	Rid BD (Initial)	Notes (Wide small)
	A	D	533/16" 4.43	4.47	0°	89/11/35	1506.04	1505.89	-21.26	JEA	START
TRIAL # ①	PT 3 A 1	W-2A	4.43	5.00	48-26-11	94-19-39	442.88	441.62	-33.42	JEA TCJ	
②	PT 4 A	W-2A	4.43	5.00	48-26-02	265-40-20	442.88	441.61	-33.42	JEA	...
①	PT 5 A	W-3A		5.06	49-16-48	93-43-55	519.38	518.27	-33.80	JEA TCJ	
②	PT 6 A	W-3A		5.06	49-16-38	266-16-05	519.37	518.27	-33.80	TCJ JEA	
①	PT 7 A	W-4A		4.76	52-57-27	92-48-23	676.88	676.06	-33.13	JEA TCJ	vibration due to wind
②	PT 8 A	W-4A		4.76	307-02-37	267-11-32	676.88	676.06	-33.16	~~TCJ~~ JEA	
①	PT 9 A	W-5A		4.76	54-20-14	92-18-40	824.90	824.23	-33.25	JEA TCJ	
②	PT 10 A	W-5A		4.76	54-20-07	267-41-15	824.87	824.20	-33.27	TCJ JEA	
①	PT 11 A	W-6A		4.68	52-46-49	91-59-45	952.13	951.56	-33.14	TCJ JEA	
②	A	W-6A		4.68	52-45-36	268-00-15	952.13	951.56	-33.14	JEA TCJ	Wind Bubble Not used
③	PT 12 A	W-6A		4.68	52-46-41	91-59-49	952.14	951.56	-33.15	JEA TCJ	

GOTO

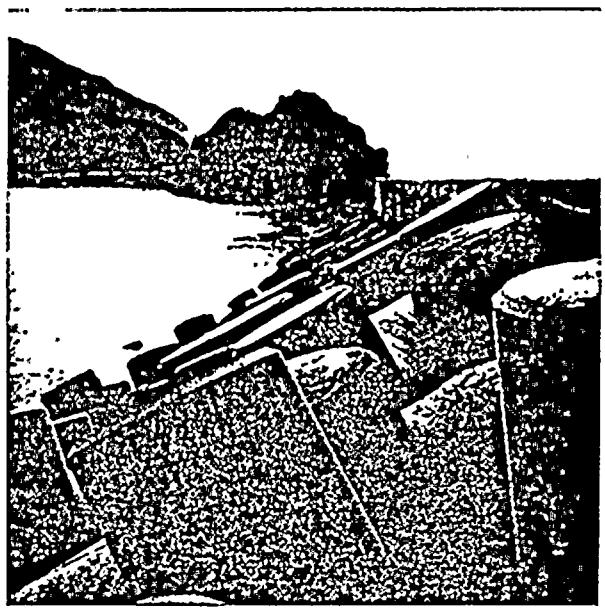


East Breakwater
4/16/92

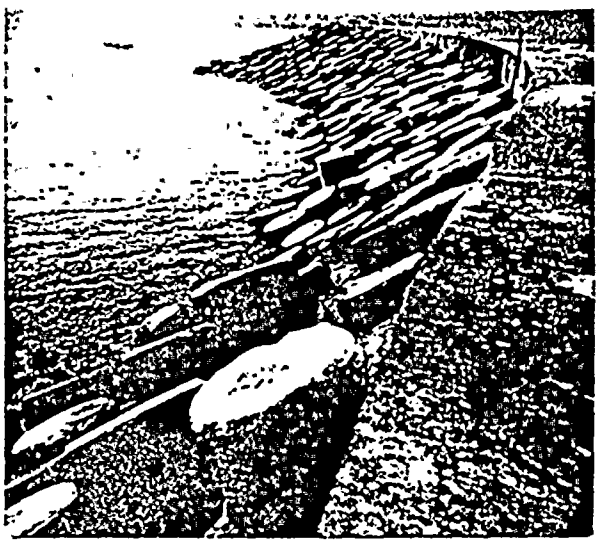
East Breakwater Seaward Side
Looking North 4/16/92



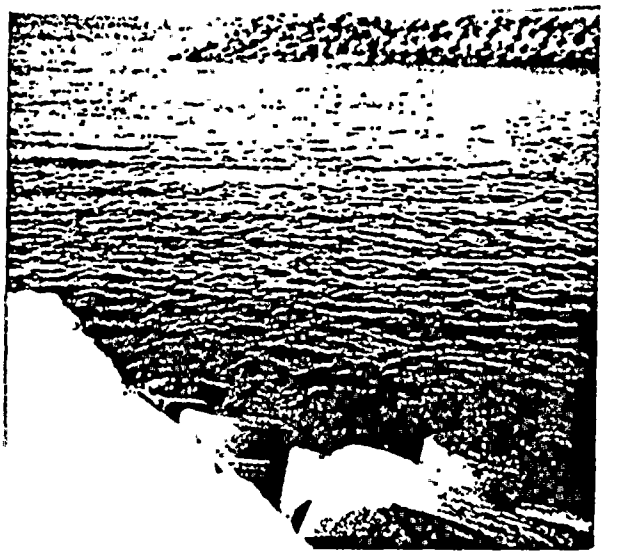
East Breakwater Seaward Side
Looking South 4/16/92



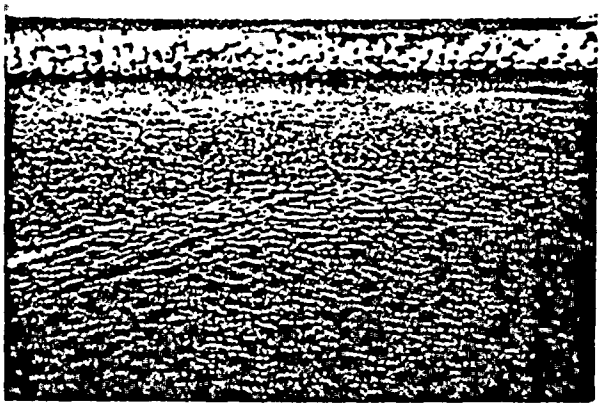
East Breakwater Shore side
Looking South 4/16/92



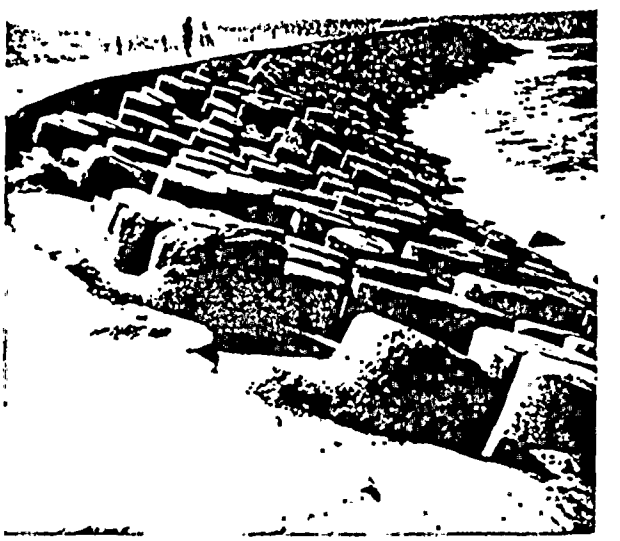
West Breakwater Shore Side
4/16/92



West Breakwater, End
4/16/92



West Breakwater. View from shore
4/16/92



West Breakwater Sea-ward side
4/16/92

West Breakwater View from shore 4/16/92

West Breakwater, Shore side, looking to shore 4/16/92