## <u>June 1999</u>

_	<u>R−1</u>
POINT	24-Jun-99
DATE	7:30
TIME	16°C
Temp.	
Atm. Pressure	9.5m
Dep.	0.01.0
Water Quality	6.85
pH upper layer:0.5m below sea surface	6.86
lower layer:1.0m above sea bottom	
DO upper layer:0.5m below sea surface	9.0(mg/L)
lower layer:1.0m above sea bottom	9.1(mg/L)
Transparency	0.3m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	
pH	
ORP	
Color	

- ()	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm)
Dep.(m)	15.0	0.0		0.0
0.5	15.0	0.0		0.0
!		0.0		0.0
2	15.0	0.0		0.0
3	15.0	0.0		0.0
4	14.1	0.0		0.0
5	14.1			0.0
6	14.1	0.0		0.0
7	15.0	0.0		0.0
8	15.0	0.0		0.0
9	15.0	0.0	<b></b>	<del></del>
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Remarks:	Weather
	Wind
	Wave

	P-1
POINT	<del></del>
DATE	24-Jun-99
TIME	1:40
Temp.	15°C
Atm. Pressure	
Dep.	6.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.63
lower layer:1.0m above sea bottom	6.66
DO upper layer:0.5m below sea surface	10.1(mg/L)
lower layer:1.0m above sea bottom	10.3(mg/L)
Transparency	
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	
рН	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm)
0.5	14.8	0.1	·	0.2
1	14.8	0.1		0.2
2	14.8	0.1		0.2
3	14.8	0.1		0.2
4	14.8	0.2		0.3
5	14.8	0.2		0.3
6	14.7	0.2		0.3
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Remarks: Weather	
Wind	
Wave	

DON'T	P-2
POINT	24-Jun-99
DATE	0:15
TIME	15.0°C
Temp.	10.0 0
Atm. Pressure	
Dep	6.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.46
lower layer:1.0m above sea bottom	6.62
DO upper layer:0.5m below sea surface	10.3(mg/L)
DO upper layer:0.5m below sea surrass	10.3(mg/L)
lower layer:1.0m above sea bottom	
Transparency	
Turbidity upper layer:0.5m below sea surface	
lower layer: 1.0m above sea bottom	
Bottom Materials	
Temp.	
pH	
ORP	
Color	

5 ()	TEMP.(°C)	SAL.(‰)	DO(mg/L)	COND.(mmho/cm)
Dep.(m)	14.9	0.3		0.6
0.5	14.9	0.3		0.6
	14.9	0.3		0.6
2	14.9	0.3		0.6
3	14.9	0.3		0.6
4	14.9	0.3		0.6
5		0.3		0.6
6	14.9	0.0		
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Remarks: Weather	
Wind	
Wave	

POINT	P-3
DATE	23-Jun-99
TIME	22:50
Temp.	15°C
Atm. Pressure	
Dep.	6.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.78
lower layer:1.0m above sea bottom	6,78
DO upper layer:0.5m below sea surface	11.3(mg/L)
lower layer:1.0m above sea bottom	10.0(mg/L)
Transparency	
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp	
pH	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm
0.5	14.8	0.3		0.5
1	14.8	0.3		0.4
2	14.8	0.3		0.4
3	14.8	0.3		0.4
4	14.8	0.3		0.9
5	14.7	0.5		0.
6	14.7	0.7		1,
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Remarks: Weather	
Wind	
Wave	

DATE         23-Jun-99           TIME         20:00           Temp.         15°C           Atm. Pressure         6.5m           Dep.         6.5m           Water Quality         7.00           pH upper layer:0.5m below sea surface         7.00           DO upper layer:0.5m below sea surface         12.3(mg/L)           lower layer:1.0m above sea bottom         9.5(mg/L)           Transparency         Turbidity upper layer:0.5m below sea surface           lower layer:1.0m above sea bottom         Bottom Materials           Temp.         pH           ORP         ORP	POINT	P-4
TIME         20:00           Temp.         15°C           Atm. Pressure         6.5m           Dep.         6.5m           Water Quality         7.00           pH upper layer:0.5m below sea surface         7.00           DO upper layer:0.5m below sea surface         12.3(mg/L)           lower layer:1.0m above sea bottom         9.5(mg/L)           Transparency         Turbidity upper layer:0.5m below sea surface           lower layer:1.0m above sea bottom         Bottom Materials           Temp.         pH           ORP         ORP		23-Jun-99
Temp.         15°C           Atm. Pressure         6.5m           Water Quality         6.5m           pH upper layer:0.5m below sea surface         7.00           lower layer:1.0m above sea bottom         7.00           DO upper layer:0.5m below sea surface         12.3(mg/L)           lower layer:1.0m above sea bottom         9.5(mg/L)           Transparency         Turbidity upper layer:0.5m below sea surface           lower layer:1.0m above sea bottom           Bottom Materials           Temp.           pH           ORP		20:00
Atm. Pressure  Dep. 6.5m  Water Quality pH upper layer:0.5m below sea surface 7.00 lower layer:1.0m above sea bottom 7.00  DO upper layer:0.5m below sea surface 12.3(mg/L) lower layer:1.0m above sea bottom 9.5(mg/L)  Transparency Turbidity upper layer:0.5m below sea surface lower layer:1.0m above sea bottom  Bottom Materials Temp. pH ORP		15°C
Dep.         6.5m           Water Quality         pH upper layer:0.5m below sea surface         7.00           lower layer:1.0m above sea bottom         7.00           DO upper layer:0.5m below sea surface         12.3(mg/L)           lower layer:1.0m above sea bottom         9.5(mg/L)           Transparency         Turbidity upper layer:0.5m below sea surface           lower layer:1.0m above sea bottom           Bottom Materials           Temp.           pH           ORP	Temp.	
Dep.           Water Quality           pH upper layer:0.5m below sea surface         7.00           lower layer:1.0m above sea bottom         7.00           DO upper layer:0.5m below sea surface         12.3(mg/L)           lower layer:1.0m above sea bottom         9.5(mg/L)           Transparency         Turbidity upper layer:0.5m below sea surface           lower layer:1.0m above sea bottom           Bottom Materials           Temp.           pH           ORP	Atm. Pressure	C F
DH upper layer:0.5m below sea surface   7.00	Dep.	mc.0
DH upper layer:0.5m below sea surface   7.00	Water Quality	
lower layer: 1.0m above sea bottom 7.00  DO upper layer: 0.5m below sea surface 12.3(mg/L) lower layer: 1.0m above sea bottom 9.5(mg/L)  Transparency  Turbidity upper layer: 0.5m below sea surface lower layer: 1.0m above sea bottom  Bottom Materials  Temp. pH  ORP		7.00
DO upper layer:0.5m below sea surface 12.3(mg/L) lower layer:1.0m above sea bottom 9.5(mg/L)  Transparency Turbidity upper layer:0.5m below sea surface lower layer:1.0m above sea bottom  Bottom Materials Temp. pH ORP		7.00
lower layer:1.0m above sea bottom 9.5(mg/L)  Transparency  Turbidity upper layer:0.5m below sea surface  lower layer:1.0m above sea bottom  Bottom Materials  Temp.  pH  ORP		12.3(mg/L)
Transparency Turbidity upper layer:0.5m below sea surface lower layer:1.0m above sea bottom  Bottom Materials Temp. pH ORP		9.5(mg/L)
Bottom Materials Temp. pH ORP		
Bottom Materials Temp. pH ORP	Turbidity upper layer:0.5m below sea surface	· · · · · · · · · · · · · · · · · · ·
Temp. pH ORP		
pH ORP	Bottom Materials	
ORP	Temp.	
	рН	
Outen	ORP	
Color	Color	

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm
0.5	14.8	0.7		1.2
1	14.9	0.7		1.1
2	14.9	0.7		1.2
3	14.9	0.8		1.1
4	14.8	0.8		1.2
5	14.7	0.8		1.3
6	13.8	6.3		8.7
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Remarks: Weather	
Wind	
Wave	

POINT	P-5
DATE	23-Jun-99
TIME	18:15
Temp.	15°C
Atm. Pressure	
Dep	6.5m
Water Quality	
pH upper layer:0.5m below sea surface	7.51
lower layer:1.0m above sea bottom	6.99
DO upper layer:0.5m below sea surface	11.2(mg/L)
lower layer:1.0m above sea bottom	9.6(mg/L)
Transparency	
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	
рН	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm
0.5	14.9	3.2		4.8
1	14.9	3.2		4.7
2	14.9	3.2		4.1
3	14.8	3.4		5.0
4	14.8	3.4		5.0
5	14.8	3.5		5.
6	13.8	6.6		9.
Remarks				

Wind Wave

POINT	P-6
DATE	23-Jun-99
	16:40
TIME Temp.	15°C
Atm. Pressure	
Dep.	6.5m
Water Quality	
pH upper layer:0.5m below sea surface	7.10
lower layer:1.0m above sea bottom	6.81
DO upper layer:0.5m below sea surface	11.2(mg/L)
lower layer:1.0m above sea bottom	11.1(mg/L)
Transparency	3.7m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	
рН	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm
0.5	15.0	3.1		4.6
1	15.0	3.1		4.6
2	15.0	3.1		4.6
3	15.0	3.1		4.7
	14.9	3.2		4.8
	14.7	4.0		5.7
5	14.7	4.2		6.2
6	17.7			· ·
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Remarks: Weather
Wind
Wave

POINT	P-7
DATE	23-Jun-99
TIME	15:30
Temp.	16°C
Atm. Pressure	
Dep.	8.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.81
lower layer:1.0m above sea bottom	6.92
DO upper layer:0.5m below sea surface	12.8(mg/L)
lower layer:1.0m above sea bottom	11.2(mg/L)
Transparency	3.5m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	
рН	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cr
0.5	15.2	3.7		5.
1	15.1	4.1		5.
2	15.0	4.1		6
3	15.0	4.2		5
4	15.0	4.5		6
5	15.0	4.6		6
6	14.9	4.7		
7	14.8	4.7		6
8	14.8	4.7		6
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Remarks: Weather

Wind

Wave

POINT	P-8
POINT	23-Jun-99
DATE	13:00
TIME	20°C
Temp.	200
Atm. Pressure	
Dep	6.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.62
lower layer:1.0m above sea bottom	6.86
DO upper layer:0.5m below sea surface	10.0(mg/L)
lower layer:1.0m above sea bottom	10.3(mg/L)
Transparency	0.9m
Turbidity upper layer:0.5m below sea surface	<u> </u>
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	
pH	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm)
0.5	15.3	4.1		6.0
1	15.4	4.1		6.0
2	15.3	4.1		6.0
3	15.3	4.1		6.0
4	15.3	4.1		6.0
5	15.2	4.1		6.0
6	15.2	4.1		6.0
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Remarks: <u>Weather</u>	
Wind	
Wave	

POINT	0-1
DATE	23~Jun-99
TIME	10:20
Temp.	19°C
Atm. Pressure	
Dep.	15.5m
Water Quality	
pH upper layer:0.5m below sea surface	7.57
lower layer:1.0m above sea bottom	7.41
DO upper layer:0.5m below sea surface	8.6(mg/L)
lower layer:1.0m above sea bottom	6.4(mg/L)
Transparency	2.5m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	
pH	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(% <sub>0</sub> )	DO(mg/L)	COND.(mmho/cm
0.5	15.0	19.4		25.0
1	15.0	19.5		25.
2	14.9	19.5		25.
3	15.0	22.0		25.
4	14.8	28.0		34.
5	14.7	28.2		35.
6	14.7	28.3		35.
7	14.5	28.9		35.
8	14.5	29.0		35.
9	14.5	29.1		35.
10	14.4	29.1		35.
11	14.4	29.1		35.
12	14.4	29.1		35.
13	14.5	29.1		35.
14	14.5	29.1		35.
15	14.4	29.1		35.

Remarks:	Weather			
	Wind			
	Wave			

## <u>July 1999</u>

POINT	R-1
DATE	21-Jul-99
TIME	16:30
Temp.(Air)	14°C
	1016hPa
Atm. Pressure	7.5m
Dep. Water Quality	
pH upper layer:0.5m below sea surface	7.49
lower layer:1.0m above sea bottom	7.31
DO upper layer:0.5m below sea surface	3.9(mg/L)
lower layer:1.0m above sea bottom	3.6(mg/L)
Transparency	0.2m
Turbidity upper layer:0.5m below sea surface	101NTU
lower layer:1.0m above sea bottom	119NTU
Bottom Materials	
Temp.	
pH	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm
0.5	14.0	0.0		0.0
1	14.0	0.0		0.0
2	14.0	0.0		0.0
3	14.0	0.0		0.0
4	14.0	0.0		0.0
5	14.0	0.0		0.0
6	14.0	0.0		0.0
7	14.0	0.0		0.9
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Remarks: Weather	
Wind	
Wave	

POINT	P-1
DATE	21-Jul-99
TIME	15:00
Temp.(Air)	15°C
Atm. Pressure	1016hPa
Dep.	7.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.67
lower layer:1.0m above sea bottom	6.77
DO upper layer:0.5m below sea surface	3.8(mg/L)
lower layer:1.0m above sea bottom	3.8(mg/L)
Transparency	0.1m
Turbidity upper layer:0.5m below sea surface	20 <u>9NTU</u>
lower layer:1.0m above sea bottom	199NTU
Bottom Materials	
Temp.	
рН	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm)
0.5	14.2	0.1		0.2
1	14.2	0.1		0.2
2	14.2	0.2		0.3
3	14.2	0.2		0.3
4	14.2	0.2		0.3
5	14.2	0.2		0.3
6	14.2	0.1		0.2
7	14.2	0.1		0.2
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Remarks: Weather	·	
Wind		
Wave		- · · · · · · · · · · · · · · · · · · ·

POINT	P-2
DATE	21-Jul-99
TIME	13:45
Temp.(Air)	15°C
Atm. Pressure	1014hPa
Dep.	<u>8.5m</u>
Water Quality	
pH upper layer:0.5m below sea surface	6.87
lower layer:1.0m above sea bottom	6.70
DO upper layer:0.5m below sea surface	3.8(mg/L)
lower layer:1.0m above sea bottom	3.9(mg/L)
Transparency	0.1m
Turbidity upper layer:0.5m below sea surface	125NTU
lower layer:1.0m above sea bottom	132NTU
Bottom Materials	
Temp.	
pH	
ORP	
Color	

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Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm)
0.5	14.1	0.4		0.7
1	14.1	0.4		0.7
2	14.1	0.4		0.7
3	14.1	0.4		0.7
4	14.1	0.4		0.7
5	14.1	0.5		0.7
6	14.1	0.5		0.7
7	14.1	0.5		0.7
8	14.1	0.5		0.7

Remarks:	Weather	 	 	 
	Wind	 	 	 
	Wave		 	 

POINT	P-3
DATE	21-Jul-99
TIME	12:15
Temp.(Air)	14°C
Atm. Pressure	1016hPa
Dep.	7.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.76
lower layer:1.0m above sea bottom	6.82
DO upper layer:0.5m below sea surface	3.8(mg/L)
lower layer:1.0m above sea bottom	3.8(mg/L)
Transparency	0.3m
Turbidity upper layer:0.5m below sea surface	115NTU
lower layer:1.0m above sea bottom	110NTU
Bottom Materials	
Temp.	
pH	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm)
0.5	14.1	0.4		0.6
1	14.1	0.4		0.6
2	14.1	0.4		0.5
3	14.2	0.4		0.6
4	14.1	0.4		0.6
5	14.1	0.4		0.6
6	14.1	0.4		0.6
7	14.1	0.4		0.6
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Remarks:	Weather	 	 	 	
	Wind	 	 	 	
	Wave			 	

DOINT	P-4
POINT	21-Jul-99
DATE	9:30
TIME	13°C
Temp.(Air)	1018hPa
Atm. Pressure	7,5m
Dep	7.511
Water Quality	
pH upper layer:0.5m below sea surface	7.08
lower layer:1.0m above sea bottom	6.98
DO upper layer:0.5m below sea surface	3.9(mg/L)
lower layer:1.0m above sea bottom	3.8(mg/L)
<del></del>	0.1m
Transparency Turbidity upper layer:0.5m below sea surface	203NTU
lower layer:1.0m above sea bottom	213NTU
Bottom Materials	
Temp.	
рН	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm
0.5	13.9	1.7		2.6
1	13.9	1.7		2.6
2	13.9	1.7		2.0
3	13.9	1.7		2.0
4	13.9	1.7		2.
5	13.9	1.7		2.
6	13.9	1.7		
7	13.9	1.7		2.
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Remarks: Weather	
Wind	
<u> Wave</u>	

DON'T	P-5
POINT	20-Jul-99
DATE	18:00
TIME	
Temp.(Air)	1484
Atm. Pressure	1009hPa
Dep.	8.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.93
lower layer:1.0m above sea bottom	7.21
DO upper layer:0.5m below sea surface	3.6(mg/L)
lower layer:1.0m above sea bottom	4.5(mg/L)
Transparency	
Turbidity upper layer:0.5m below sea surface	11NTU
lower layer:1.0m above sea bottom	12NTU
Bottom Materials	
Temp.	
рН	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm
0.5	14.1	2.4		3.5
1	14.1	2.4		3.5
2	14.0	2.3		3.5
3	14.1	2.4		3.5
4	14,1	2.4		3.5
5	14.1	2.3		3.1
6	14.1	2,1		2.7
7	14.1	2.0		3.0
88	14.1	2.3		3.5

Remarks:	Weather		 	 	 
	Wind	 	 	 	 
	Wave		 	 	 

	P-6
POINT	20-Jul-99
DATE	16:15
TIME	16°C
Temp.(Air)	
Atm. Pressure	5.5m
Dep.	<u> </u>
Water Quality	6.96
pH upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	6.92
DO upper layer:0.5m below sea surface	4.2(mg/L)
lower layer:1.0m above sea bottom	4.2(mg/L)
	1.0m
Transparency O. F below coa surface	15NTU
Turbidity upper layer:0.5m below sea surface lower layer:1.0m above sea bottom	17NTU
Bottom Materials	
Temp.	
pH	
ORP	
Color	

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- /\ 1	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm)
Dep.(m)	13.9	2.6		3.8
0.5	13.9	2.6		3.8
1		2.6		3.8
2	13.9	2.6		3.8
3	13.9	2.6		3.8
44	13.9			3.8
5	13.9	2.6		
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Remarks: Weather	
Wind	
Wave	

POINT	P-7
DATE	20-Jul-99
TIME	15:15
Temp.(Air)	16℃
Atm. Pressure	1007hPa
Dep.	11.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.57
lower layer:1.0m above sea bottom	6.68
DO upper layer:0.5m below sea surface	3.9(mg/L)
lower layer:1.0m above sea bottom	4.0(mg/L)
Transparency	0.8m
Turbidity upper layer:0.5m below sea surface	28NTU
lower layer:1.0m above sea bottom	37NTU
Bottom Materials	
Temp.	
рН	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(‰)	DO(mg/L)	COND.(mmho/ci
0.5	14.0	2.8		4.
1	14.0	2.8		4.
2	14.0	2.8		4
3	14.0	2.8	<u>.</u> .	4
4	14.0	2.8		4
5	14.0	2.9		4
6	14.0	2.9		4
7	14.0	2.9		4
8	14.0	3.0		4
9	14.0	3.0		4
10	14.0	3.0		4
11	14.0	3.0		5
	<del>                                     </del>			
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Remarks:	Weather		 	
	Wind		 	_
	Wave	 	 	_

POINT	P-8_
DATE	20-Jul-99
TIME	13:00
Temp.(Air)	14°C
Atm. Pressure	1012hPa
Dep	5.5m
Water Quality	
pH upper layer:0.5m below sea surface	7.01
lower layer:1.0m above sea bottom	7.01
DO upper layer:0.5m below sea surface	3.8(mg/L)
lower layer:1.0m above sea bottom	3.7(mg/L)
Transparency	0.2m
Turbidity upper layer:0.5m below sea surface	138NTU
lower layer:1.0m above sea bottom	150NTU
Bottom Materials	
Temp.	
pH	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(% <sub>0</sub> )	DO(mg/L)	COND.(mmho/cm
0.5	13.2	2.1		3.0
1	13.2	2.1		3.0
2	13.2	2.1		3.0
3	13.2	2.1		3.0
4	13.2	2.1		3.0
5	13.2	2.1		3.0
	,			
				<del></del>

 Wind

 Wave

POINT	0-1'
DATE	20-Jul-99
TIME	10:45
Temp.(Air)	14°C
Atm. Pressure	1016hPa
Dep.	15.5m
Water Quality	
pH upper layer:0.5m below sea surface	7.03
lower layer:1.0m above sea bottom	7.21
DO upper layer:0.5m below sea surface	4.0(mg/L)
lower layer:1.0m above sea bottom	4.3(mg/L)
Transparency	0.3m
Turbidity upper layer:0.5m below sea surface	72NTU
lower layer:1.0m above sea bottom	145NTU
Bottom Materials	
Temp.	
рН	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/c
0.5	13.5	_5.5		7.
1	13.5	5.5		7
2	13.5	5.4		7
3	13.5	5.4		
4	13.5	5.6		
5	13.5	5.6		
6	13.5	5.7		_
7	13.5	5.8		
8	13.5	5.9		8
9	13.5	5.8		
10	13.5	5.8		
11	13.5	5.8		
12	13.4	6.0	<del></del>	
13	13.4	6.1		
14	13.5	6.5		
15	13.5	8.3		1

Remarks: Weather	Cloud
Wind	
Wave	

## <u>August 1999</u>

DOINT	<u>R-1</u>
POINT	24-Aug-99
DATE	13:20
TIME	23°C
Temp.(Air)	
Atm. Pressure	1016hPa
Dep.	7.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.47
lower layer:1.0m above sea bottom	7.70
DO upper layer:0.5m below sea surface	9.9(mg/L)
lower layer:1.0m above sea bottom	11.0(mg/L)
Transparency	0.4m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp	<u>18°C</u>
pH	6.88
ORP	288mV
Color	10YR5/4
Olivi	

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm)
0.5	15.8	0.0		0.0
1	15.8	0.0		0.0
2	15.8	0.0		0.0
3	15.8	0.0		0.0
	15.8	0.0		0.0
5	15.8	0.0		0.0
6 _	15.8	0.0		0.0
	15.8	0.0		0.0
7	10.0			
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<u> </u>			<u> </u>	

- 1 141 - Al 11	Cloudy
Remarks: Weather	E 10KNOTS
Wind	0.5m
Wave	

POINT	P-1
DATE	24-Aug-99
TIME	11:30
Temp.(Air)	19℃
Atm. Pressure	1019hPa
Dep.	
Water Quality	
pH upper layer:0.5m below sea surface	6.80
lower layer:1.0m above sea bottom	6.80
DO upper layer:0.5m below sea surface	11.2(mg/L)
lower layer:1.0m above sea bottom	11.0(mg/L)
Transparency	0.1m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp	14°C
pH	7.33
ORP	-131mV
Color	10YR2/2

		· · · · · · · · · · · · · · · · · · ·		
ng/L)		SAL.(%)	TEMP.(°C)	Dep.(m)
		0.0	14.7	0.5
		0.0	14.7	1
		0.0	14.7	2
	L	0.0	14.7	3
	<u> </u>	0.0	14.7	4
		0.0	14.7	5
		0.0	14.7	6
		0.0	14.7	7
	$\top$			
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Remarks: Weather	Cloudy
Wind	E 22-25 KNOTS
Wave	2.5m

DOINT	P-2_
POINT	24-Aug-99
DATE	9:50
TIME	19°C
Temp.(Air)	
Atm. Pressure	1019hPa
Dep.	6.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.54
lower layer:1.0m above sea bottom	6.59
DO upper layer:0.5m below sea surface	9.9(mg/L)
lower layer:1.0m above sea bottom	10.4(mg/L)
Transparency	0.2m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp	14 <u>°</u> C
pH	7.1
ORP	
Color	10YR2/2
Color	

COND.(mmho/cm)	DO(mg/L)	SAL.(%)	TEMP.(°C)	Dep.(m)
0.4		0.2	14.4	0.5
0.4		0.2	14.4	1
0.3		0.2	14.4	2
0.3		0.2	14.4	3
0.3		0.2	14.4	4
0.3		0.2	14.4	5
0.3		0.2	14.4	6
			<del> </del>	
			<del> </del>	

Remarks: Weather	Cloudy
<del></del>	E 18 KNOTS
Wind	2m
Wave	

POINT	P-3
DATE	24-Aug-99
TIME	8:20
Temp.(Air)	18°C
Atm. Pressure	1020hPa
Dep.	7.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.58
lower layer:1.0m above sea bottom	6.58
DO upper layer:0.5m below sea surface	9.9(mg/L)
lower layer:1.0m above sea bottom	9.8(mg/L)
Transparency	0.3m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	14°C
pH	7.32
ORP	-127mV
Color	10YR2/2

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm)
0.5	14.5	0.3		0.5
1	14.5	0.3		0.5
2	14.5	0.3		0.5
3	14.5	0.3		0.5
4	14.5	0.3		0.5
5	14.5	0.3		0.5
6	14.5	0.3		0.5
7	14.5	0.3		0.5
			<u>-</u>	
	<del>                                     </del>			
Domarko	: Weather			Cloud

Wind

Wave

E 18KNOTS

1.5m

POINT	P-4
DATE	23-Aug-99
TIME	22:00
Temp.(Air)	17°C
	1021hPa
Atm. Pressure	6.5m
Dep.	
Water Quality	6.88
pH upper layer:0.5m below sea surface	6.80
lower layer:1.0m above sea bottom	
DO upper layer:0.5m below sea surface	10.3(mg/L)
lower layer:1.0m above sea bottom	9.9(mg/L)
Transparency	
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	14°C
pH	7.78
ORP	-200mV
Color	10YR2/2

Dep.(m)	TEMP.(°C)	SAL (%)	DO(mg/L)	COND.(mmho/cm)
0.5	14.2	0.4		0.7
1	14.2	0.4		0.7
2	14.2	0.4		0.7
3	14.2	0.4		0.7
4	14.2	0.4		0.7
5	14.2	0.4		0.7
6	14.2	0.4		0.7

Remarks: Weather	Cloudy
	E 18 KNOTS
Wind	2m
Waye	

POINT	P-5
DATE	23-Aug-99
TIME	20:00
Temp.(Air)	18°C
Atm. Pressure	1021hPa
Dep.	7.5m
Water Quality	
pH upper layer:0.5m below sea surface	7.25
lower layer:1.0m above sea bottom	7.25
DO upper layer:0.5m below sea surface	9.9(mg/L)
lower layer:1.0m above sea bottom	9.9(mg/L)
Transparency	
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	14°C
pH	6.19
ORP	-128mV
Color	10YR2/2

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm)
0.5	14.0	0.9		1.4
1	14.0	0.9		1.4
2	14.0	0.9		1.4
3	14.0	0.9		1.4
4	14.0	0.9		1.4
5	14.0	0.9		1.4
6	14.0	0.9		1.4
7	14.0	0.9		1.4
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Remarks: Weather	Cloudy
Wind	E 20KNOTS
Wave	10YR2/2

POINT	P-6
DATE	23-Aug-99
	18:10
TIME	17°C
Temp.(Air)	1020hPa
Atm. Pressure	5.5m
Dep.	0.011
Water Quality	
pH upper layer:0.5m below sea surface	6.65
lower layer:1.0m above sea bottom	6.54
DO upper layer:0.5m below sea surface	9.9(mg/L)
lower layer:1.0m above sea bottom	9.6(mg/L)
Transparency	
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	13°C
pH	7.31
ORP	-109mV
Color	10YR2/2

Dep.(m)	TEMP.(°C)	SAL.(%)	DO(mg/L)	COND.(mmho/cm)
0.5	14.1	1.8		2.7
1	14.1	1.8		2.7
2	14.1	1.8		2.7
3	14.1	1.8		2.7
4	14.1	1.8		2.7
5	14.1	1.8		2.7
	<u> </u>			

Remarks: Wea	ther	Cloudy
Win		E 20KNOTS
Way	<del></del>	1.5m

POINT	P-7
DATE	23-Aug-99
TIME	16:30
Temp.(Air)	17°C
Atm. Pressure	1020hPa
Dep	10.5m
Water Quality	
pH upper layer:0.5m below sea surface	6,91
lower layer:1.0m above sea bottom	7.00
DO upper layer:0.5m below sea surface	9.9(mg/L)
lower layer:1.0m above sea bottom	9.9(mg/L)
Transparency	0.7m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	14°C
pH	7.23
ORP	-218mV
Color	10YR2/2
ORP	

Dep.(m)	TEMP.(°C)	SAL.(‰)	DO(mg/L)	COND (mmho/cm
0.5	14.4	2.1		3.2
1	14.4	2.1		3.2
2	14.4	2.1		3.2
3	14.4	2.2		3.2
4	14.4	2.1		3.2
5	14.4	2.2		3.2
6	14.4	2.2		3.2
7	14.4	2.2		3.2
8	14.4	2.2		3.2
9	14.4	2.2	·	3.2
10	14.3	2.3		3.3

Remarks: Weather	Cloudy
Wind	SE 15-18 KNOTS
Wave	0.5m

POINT	P-8
DATE	23-Aug-99
TIME	14:30
Temp.(Air)	17°C
Atm. Pressure	1020hPa
Dep.	8.5m
Water Quality	
pH upper layer:0.5m below sea surface	7.00
lower layer:1.0m above sea bottom	7.15
DO upper layer:0.5m below sea surface	9.9(mg/L)
lower layer:1.0m above sea bottom	9.0(mg/L)
Transparency	0.8m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	14°C
pH	7.54
ORP	-140mV
Color	10YR2/2

COND.(mmho/cn	DO(mg/L)	SAL.(‰)	TEMP.(°C)	Dep.(m)
3.5		2.3	14.4	0.5
3.9		2.3	14.4	1
3.		2.3	14.4	2
3.0		2.4	14.4	3
6.		6.5	14.4	4
32.		26.8	13.2	5
32.		27.0	13.2	6
33.		27.4	13.1	7
33.		27.7	13.1	8
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Remarks: Weather	Cloudy
Wind	SE 14 KNOTS
Wave	0.5m

POINT	0-1'
DATE	23-Aug-99
TIME	12:40
Temp.(Air)	15°C
Atm. Pressure	1021hPa
Dep	12.5m
Water Quality	
pH upper layer:0.5m below sea surface	7.53
lower layer:1.0m above sea bottom	7.66
DO upper layer:0.5m below sea surface	9.9(mg/L)
lower layer:1.0m above sea bottom	8.3(mg/L)
Transparency	1.3m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	13°C
pH	7.16
ORP	-116mV
Color	10YR2/2
<del></del>	

Dep.(m)	TEMP.(°C)	SAL(‰)	DO(mg/L)	COND.(mmho/cm)
0.5	14.0	10.9		14.5
1	14.0	11.0		14.5
2	13.6	21.0		26.4
3	13.5	21.9		31.6
4	13.0	28.6		34.0
5	12.9	29.2		34.7
6	12.9	29.4		34.9
7	12.9	29.4		35.0
8	12.9	29.5		35.0
9	12.9	29.5		35.0
10	12.9	29.5		35.0
11	12.9	29.5		35.0
12	12.9	29.5		35.0
			····	

Remarks: Weather	Cloudy
Wind	SE 10 KNOTS
Wave	0.5m