



ORGANISMO NACIONAL DE SANIDAD PESQUERA

SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (N° cel/L)

1ra Semana



Semana: 05 al 11 de abril de 2015

Fecha: 10 y 11 de abril de 2015

ZONAS	012 BAHÍA DE SECHURA																
AREAS	SAN PABLO	SAN PEDRO	PLAYA CHUYILLACHI	CHUYILLACHI		MATACABALLO			CONSTANTE		LAS DELICIAS		PARACHIQUE		BARRANCOS	VICHAYO	PUERTO RICO
ESTACION	01-A-SECH	02-A-SECH	03-A-SECH	04-A-SECH		05-C-SECH			06-A-SECH*		07-B-SECH*		08-C-SECH*		09-A-SECH*	10-C-SECH*	11-A-SECH
PROFUNDIDAD (m)	....	....	....	....	....	....	....	....	0-4	4-9	0-3	3-8	0-3	3-8	0-6	0-6	....
TEMPERATURA (°C)	....	....	....	....	....	....	....	....	20,8	19,9	20,3	19,7	20,6	19,4	20,5	19,4	....
DIATOMEAS																	
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	7680	21880	28240	12880	2080	1480	2280	1600	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	200	120	0	0	0	0	0	0	S/M
DINOFLAGELADOS																	
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	40	0	0	0	0	0	0	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	40	0	0	0	0	0	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
<i>Karlodinium</i> cf. <i>veneticum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M
FITOFLAGELADOS																	
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	0	0	0	S/M

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



ORGANISMO NACIONAL DE SANIDAD PESQUERA

SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (N° cel/L)

2da Semana



Semana: 12 al 18 de abril de 2015

Fecha: 16 y 18 de abril de 2015

ZONAS	012 BAHIA DE SECHURA															
AREAS	SAN PABLO	SAN PEDRO	PLAYA CHUYILLACHI	CHUYILLACHI		MATACABALLO			CONSTANTE	LAS DELICIAS		PARACHIQUE	BARRANCOS	VICHAYO	PUERTO RICO	
ESTACION	01-A-SECH	02-A-SECH	03-A-SECH	04-A-SECH		05-C-SECH			06-A-SECH	07-B-SECH		08-C-SECH	09-A-SECH	10-C-SECH	11-A-SECH*	
PROFUNDIDAD (m)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0-5	0-5
TEMPERATURA (°C)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	21,0	20,8
DIATOMEAS																
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	15960	61280
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	3720	7920
DINOFLAGELADOS																
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	40
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	40	0
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	200	80
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	40
FITOFLAGELADOS																
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



ORGANISMO NACIONAL DE SANIDAD PESQUERA

SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (N° cel/L)

3ra Semana



Semana: 19 al 25 de abril de 2015

Fecha: 25 de abril de 2015

ZONAS	012 BAHIA DE SECHURA														
AREAS	SAN PABLO	SAN PEDRO	PLAYA CHUYILLACHI	CHUYILLACHI	MATACABALLO			CONSTANTE	LAS DELICIAS	PARACHIQUE		BARRANCOS	VICHAYO		PUERTO RICO
ESTACION	01-A-SECH	02-A-SECH	03-A-SECH	04-A-SECH	05-C-SECH			06-A-SECH	07-B-SECH*	08-C-SECH*		09-A-SECH*	10-C-SECH		11-A-SECH
PROFUNDIDAD (m)	....	....	....	....	....	....	....	....	0-7	0-3	3-8	0-7	....	....	....
TEMPERATURA (°C)	....	....	....	....	....	....	....	....	19,8	20,7	19,4	19,6	....	....	....
DIATOMEAS															
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	51200	49600	24320	3640	S/M	S/M	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	3960	1600	1240	440	S/M	S/M	S/M
DINOFLAGELADOS															
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	40	0	0	0	S/M	S/M	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
<i>Karlodinium</i> cf. <i>veneticum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	120	0	80	S/M	S/M	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M
FITOFLAGELADOS															
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	S/M	S/M	S/M

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



ORGANISMO NACIONAL DE SANIDAD PESQUERA

SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (N° cel/L)

4ta Semana



Semana: 26 de abril al 02 de mayo de 2015

ZONAS	012 BAHIA DE SECHURA																
AREAS	SAN PABLO	SAN PEDRO	PLAYA CHUYILLACHI	CHUYILLACHI		MATA CABALLO			CONSTANTE		LAS DELICIAS		PARACHIQUE		BARRANCOS	VICHAYO	PUERTO RICO
ESTACION	01-A-SECH	02-A-SECH	03-A-SECH	04-A-SECH		05-C-SECH			06-A-SECH		07-B-SECH		08-C-SECH		09-A-SECH	10-C-SECH	11-A-SECH
PROFUNDIDAD (m)	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
TEMPERATURA (°C)	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
DIATOMEAS																	
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
DINOFLAGELADOS																	
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Karlodinium</i> cf. <i>veneticum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
FITOFLAGELADOS																	
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.