



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: 07 al 13 de junio de 2015

Fecha: 13 de junio 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)	....	....	....	....	....	....	....	....	....	....	0-3	3-8	0-3	3-8	0-6	....	....
TEMPERATURA (°C)	....	....	....	....	....	....	....	....	....	....	21.5	21.3	21.7	21.7	21.5	....	....
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	4160	3880	4160	5200	1800	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	3840	4400	9560	7320	720	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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	0	160	40	0	40	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	0	0	0	0	0	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	0	0	0	0	0	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	0	0	0	0	0	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)

2da Semana



Semana: 14 al 20 de junio de 2015

Fechas: 19 y 20 de junio 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)	....	....	....	....	....	....	....	....	0-6	0-3	3-8	0-3	3-8	0-7	0-6	....
TEMPERATURA (°C)	....	....	....	....	....	....	....	....	21.0	21.7	20.5	21.8	20.0	20.5	20.1	....
DIATOMEAS																
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	560	2480	1760	7360	560	37920	400	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	2120	0	1080	0	1120	960	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	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	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	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	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	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	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	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	40	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	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	0	0	40	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	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	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	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	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	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	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	40	320	120	600	80	40	80	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	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	40	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	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)

3ra Semana



Semana: 21 al 27 de junio de 2015

Fecha: 26 y 27 de junio 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)	....	....	....	....	....	....	....	0-7	0-7	0-3	3-8	0-6	....	....	....
TEMPERATURA (°C)	....	....	....	....	....	....	....	20.5	19.9	20.7	20.2	20.4	....	....	....
DIATOMEAS															
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	30480	54800	86800	39120	77160	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	1040	2800	3000	1120	4720	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	0	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	0	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	0	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	0	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	0	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	0	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	0	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	40	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	0	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	40	0	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	0	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	0	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	0	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	0	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	0	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	0	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	240	760	0	0	160	S/M	S/M	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	0	0	0	S/M	S/M	S/M
FITOFITAGELADOS															
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	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: 28 de junio al 04 de julio de 2015

Fechas: 03 y 04 de julio 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	0-6	0-3	3-8	0-6	0-6	....	....	....	....
TEMPERATURA (°C)	....	....	....	....	....	19.9	21.3	22.1	20.5	21.2	21.8	....	....	....	....
DIATOMEAS															
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	4480	200	1720	840	1240	600	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	2760	440	2600	2360	1320	1120	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	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	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	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	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	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	S/M
<i>Cochlodinium polykrioides</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	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	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	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	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	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	80	0	0	40	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	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	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	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	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	0	0	40	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	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	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	S/M

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.