



ORGANISMO NACIONAL DE SANIDAD PESQUERA
SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA
Concesiones de Cultivo de *Argopecten purpuratus* "concha de abanico"

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 023 Virú Naylamp, 017 Culebras, 011 Bahía Samanco, 012 Bahía Secura

Reporte de Análisis Cuantitativo de Fitoplancton (Nº cel/L)

1ra Semana



Semana: 01 al 07 de noviembre de 2015

Fechas: 03, 05, 06 y 07 de noviembre de 2015

ZONAS	002 GUAYNUMA															004 I. TORTUGAS			009 SALINAS			010 NONURA								
ESTACION	01-A-GUA**			01-B-GUA**			01-C-GUA**			02-D-GUA**			02-E-GUA**			01-A-TOR**			01-A-SAL**			01-A-NON*			01-B-NON*			01-C-NON*		
PROFUNDIDAD (m)	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15
TEMPERATURA (°C)	18.1	17.5	17.1	17.7	17.3	17.3	17.5	17.5	17.3	18.5	17.5	16.8	19.1	17.6	16.9	17.8	17.1	17.0	19.2	17.6	16.8	19.5	19.0	18.4	19.3	18.4	18.1	19.8	18.8	18.1
DIATOMEAS																														
Grupo <i>Pseudo-nitzschia delicatissima</i>	520	600	880	160	440	200	160	640	400	1360	640	400	1000	560	400	800	80	240	1680	1000	480	320	80	400	1360	1080	480	200	280	400
Grupo <i>Pseudo-nitzschia seriata</i>	1240	320	2440	640	160	0	320	0	0	400	800	40	520	840	80	480	960	40	0	0	0	0	0	0	0	0	0	0	0	0
DINOFLAGELADOS																														
<i>Alexandrium minutum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium monilatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium ostenfeldii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium peruvianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Azadinium spinosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cochlodinium polykrikoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis acuminata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis caudata</i>	0	0	0	0	0	0	0	0	0	80	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	40	0	0	0	40
<i>Dinophysis rotundata</i>	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	40	80
<i>Dinophysis tripos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gonyaulax spinifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Karenia</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Karlodinium cf. veneticum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lingulodinium polyedrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum lima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum minimum</i>	40	40	0	80	0	0	80	40	40	0	0	0	40	80	0	0	0	0	40	0	0	0	40	0	80	40	0	0	0	0
<i>Protoceratium reticulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Protoperidinium crassipes</i>	0	0	40	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	160	200	0	200	120	120	200	120
FITOFLAGELADOS																														
<i>Heterosigma akashiwo</i>	640	320	120	320	80	0	480	840	480	0	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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

Concesiones de Cultivo de *Argopecten purpuratus* "concha de abanico"

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 023 Virú Naylamp, 017 Culebras, 011 Bahía Samanco, 012 Bahía Secura

Reporte de Análisis Cuantitativo de Fitoplancton (N° cel/L)

1ra Semana



Semana: 01 al 07 de noviembre de 2015

Fechas: 06 y 07 de noviembre de 2015

ZONAS	017 CULEBRAS			011 BAHÍA SAMANCO												012 BAHÍA DE SECHURA			
ESTACION	01-A-CUL			01-B-SAM**			01-C-SAM			02-A-SAM**			02-B-SAM**			12-B-SECH**			13-A-SECH
PROFUNDIDAD (m)	.....	.....	.....	0-5	5-10	10-15	....	....	....	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	....
TEMPERATURA (°C)	.....	.....	.....	20.8	19.1	16.6	....	....	....	18.1	17.4	17.2	18.0	17.6	17.4	19.8	19.6	19.4	....
DIATOMEAS																			
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	80	40	0	200	120	9600	5440	2440	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	160	0	0	S/M	S/M	S/M	0	0	0	0	320	160	120	0	0	S/M
DINOFLAGELADOS																			
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	0	40	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	1320	600	120	S/M	S/M	S/M	40	40	0	40	0	0	400	80	0	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	0	80	0	S/M	S/M	S/M	0	40	0	0	0	0	0	0	0	S/M
FITOFLAGELADOS																			
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	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.



Concesiones de Cultivo de *Argopecten purpuratus* "concha de abanico"



2da Semana

Fechas: 10, 12 y 13 de noviembre de 2015

[illegible]

** Entidad de Apoyo ACUILAB S.A.



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SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA

Concesiones de Cultivo de *Argopecten purpuratus* "concha de abanico"

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 023 Virú Naylamp, 017 Culebras, 011 Bahía Samanco, 012 Bahía Sechura

Reporte de Análisis Cuantitativo de Fitoplancton (N° cel/L)

2da Semana



Semana: 08 al 14 de noviembre de 2015

Fechas: 13 y 14 de noviembre de 2015

ZONAS	017 CULEBRAS			011 BAHÍA SAMANCO												012 BAHÍA DE SECHURA			
ESTACION	01-A-CUL			01-B-SAM**			01-C-SAM			02-A-SAM**			02-B-SAM**			12-B-SECH**			13-A-SECH
PROFUNDIDAD (m)	.....	.....	.....	0-5	5-10	10-15	....	....	....	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	....
TEMPERATURA (°C)	.....	.....	.....	21.2	20.5	18.9	....	....	....	20.0	19.1	18.6	19.5	19.2	18.9	18.5	18.2	17.3	....
DIATOMEAS																			
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	0	0	160	S/M	S/M	S/M	0	80	80	0	160	240	1840	3480	3120	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	0	0	320	S/M	S/M	S/M	0	920	80	400	440	0	2920	3040	880	S/M
DINOFLAGELADOS																			
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	40	0	40	S/M	S/M	S/M	40	0	0	0	0	0	0	0	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	40	0	S/M	S/M	S/M	0	0	0	40	0	0	0	0	0	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	160	160	0	S/M	S/M	S/M	80	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	80	40	0	0	0	0	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	120	40	0	S/M	S/M	S/M	40	0	0	0	40	0	0	0	0	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	40	0	40	S/M	S/M	S/M	80	0	0	40	0	0	0	0	0	S/M
FITOFLAGELADOS																			
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	80	0	0	0	0	S/M

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



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Concesiones de Cultivo de *Argopecten purpuratus* "concha de abanico"

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 023 Virú Naylamp, 017 Culebras, 011 Bahía Samanco, 012 Bahía Sechura

Reporte de Análisis Cuantitativo de Fitoplancton (Nº cel/L)

3ra Semana



Semana: 15 al 21 de noviembre de 2015

Fechas: 17, 19 y 20 de noviembre de 2015

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

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Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 023 Virú Naylamp, 017 Culebras, 011 Bahía Samanco, 012 Bahía Sechura

Reporte de Análisis Cuantitativo de Fitoplancton (N° cel/L)

3ra Semana



Semana: 15 al 21 de noviembre de 2015

Fechas: 19, 20 y 21 de noviembre de 2015

ZONAS	017 CULEBRAS			011 BAHÍA SAMANCO															012 BAHIA DE SECHURA			
ESTACION	01-A-CUL			01-B-SAM**			01-C-SAM			02-A-SAM**			02-B-SAM**			12-B-SECH**			13-A-SECH			
PROFUNDIDAD (m)	.....	.....	.....	0-5	5-10	10-15	....	....	....	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	....			
TEMPERATURA (°C)	.....	.....	.....	21.6	20.5	19.1	....	....	....	21.3	19.3	18.0	20.6	19.6	17.9	20.2	19.9	19.1	....			
DIATOMEAS																						
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	160	320	440	S/M	S/M	S/M	80	960	1040	360	280	560	2600	3520	2440	S/M			
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	320	360	120	0	80	12	400	560	640	S/M			
DINOFLAGELADOS																						
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M			
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M			
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M			
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M			
<i>Alexandrium</i> sp.	S/M	S/M	S/M	80	40	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M			
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M			
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M			
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	40	0	0	40	0	0	0	0	0	S/M			
<i>Dinophysis caudata</i>	S/M	S/M	S/M	160	120	0	S/M	S/M	S/M	760	80	0	480	80	40	0	0	0	S/M			
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	40	40	0	0	0	0	S/M			
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M			
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M			
<i>Karenia</i> sp.	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M			
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M			
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M			
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M			
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	2520	1080	80	S/M	S/M	S/M	520	0	0	760	80	0	440	560	400	S/M			
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M			
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	40	120	0	S/M	S/M	S/M	40	40	0	120	120	40	0	0	0	S/M			
FITOFLAGELADOS																						
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	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

Concesiones de Cultivo de *Argopecten purpuratus* "concha de abanico"

Monitoreo de Fitoplancton Potencialmente Tóxico



Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 023 Virú Naylamp, 017 Culebras, 011 Bahía Samanco, 012 Bahía Sechura

Reporte de Análisis Cuantitativo de Fitoplancton (Nº cel/L)

4ta Semana

Semana: 22 al 28 de noviembre de 2015

Fechas: 24, 26, 27 y 28 de noviembre de 2015

ZONAS	002 GUAYNUMA															004 I. TORTUGAS			009 SALINAS			010 NONURA											
ESTACION	01-A-GUA**			01-B-GUA**			01-C-GUA**			02-D-GUA**			02-E-GUA**			01-A-TOR**			01-A-SAL**			01-A-NON*			01-B-NON*			01-C-NON*					
PROFUNDIDAD (m)	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15			
TEMPERATURA (°C)	19.5	17.7	17.3	19.1	17.5	17.3	18.3	17.5	17.1	18.9	18.1	17.8	18.8	18.5	18.3	17.7	17.5	17.4	18.3	17.3	16.7	21.8	21.6	21.6	21.9	21.4	21.2	21.8	21.3	21.2			
DIATOMEAS																																	
Grupo <i>Pseudo-nitzschia delicatissima</i>	12640	4040	1320	9120	4960	5040	11920	3120	1640	10240	8640	7520	4120	3240	2840	3040	4240	1800	4080	4640	880	16920	16400	8600	24080	19280	7600	28080	20440	11480			
Grupo <i>Pseudo-nitzschia seriata</i>	2480	760	880	1320	5280	0	1880	960	200	1480	1240	3000	1520	1440	2000	2360	2200	400	1080	640	0	5040	4800	1480	1040	880	120	1480	2120	400			
DINOFLAGELADOS																																	
<i>Alexandrium minulum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Alexandrium monilatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Alexandrium ostenfeldii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Alexandrium peruvianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Alexandrium</i> sp.	80	40	0	0	0	40	120	40	0	160	40	40	40	40	280	80	80	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Azadinium spinosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Cochlodinium polykrikoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Dinophysis acuminata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	80	120	0	0	80			
<i>Dinophysis caudata</i>	0	0	0	0	0	0	0	0	0	0	40	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Dinophysis rotundata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Dinophysis tripos</i>	0	0	0	0	40	0	0	0	0	0	0	40	0	0	0	0	0	0	80	0	0	0	0	0	0	0	0	0	0	0			
<i>Gonyaulax spinifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0			
<i>Karenia</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Karlodinium</i> cf. <i>veneticum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Lingulodinium polyedrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Prorocentrum lima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Prorocentrum minimum</i>	80	0	0	40	0	0	40	40	0	160	40	40	80	0	0	80	40	0	200	0	0	40	0	120	40	40	40	80	40	0			
<i>Protoceratium reticulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Protoperdinium crassipes</i>	80	0	0	0	40	80	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
FITOFLAGELADOS																																	
<i>Heterosigma akashiwo</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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

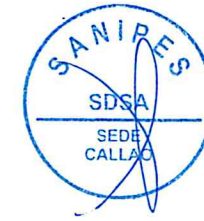
Concesiones de Cultivo de *Argopecten purpuratus* "concha de abanico"

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 023 Virú Naylamp, 017 Culebras, 011 Bahía Samanco, 012 Bahía Samanco, 012 Bahía Sechura

Reporte de Análisis Cuantitativo de Fitoplancton (Nº cel/L)

4ta Semana



Semana: 22 al 28 de noviembre de 2015

Fechas: 26 y 28 de noviembre de 2015

ZONAS	017 CULEBRAS			011 BAHÍA SAMANCO												012 BAHÍA DE SECHURA			
ESTACION	01-A-CUL			01-B-SAM**			01-C-SAM			02-A-SAM**			02-B-SAM**			12-B-SECH**			13-A-SECH
PROFUNDIDAD (m)	.....	.....	.....	0-5	5-10	10-15	.....	.....	.....	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	....
TEMPERATURA (°C)	.....	.....	.....	21.4	20.9	18.6	.....	.....	.....	19.3	18.2	17.7	18.5	18.1	18.2	22.5	22.3	21.5	....
DIATOMEAS																			
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	1240	1120	680	S/M	S/M	S/M	1080	7640	720	1080	3720	1720	1600	3760	3760	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	1240	1000	320	S/M	S/M	S/M	400	2280	80	840	1880	2680	320	80	2160	S/M
DINOFLAGELADOS																			
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium sp.</i>	S/M	S/M	S/M	120	120	0	S/M	S/M	S/M	360	0	0	0	200	120	0	40	80	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	40	0	0	0	0	0	0	80	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	80	120	0	S/M	S/M	S/M	240	80	40	0	160	0	0	0	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	40	0	0	S/M	S/M	S/M	80	40	0	40	0	0	0	0	40	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	80	0	0	S/M	S/M	S/M	40	0	0	0	0	0	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Karenia sp.</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Karlodinium cf. veneficum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	1200	1120	40	S/M	S/M	S/M	0	0	0	40	80	0	0	0	0	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	40	0	0	S/M	S/M	S/M	120	0	0	0	80	0	0	0	0	S/M
FITOFITAGELADOS																			
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	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

Concesiones de Cultivo de *Argopecten purpuratus* "concha de abanico"

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 023 Virú Naylamp, 017 Culebras, 011 Bahía Samanco, 012 Bahía Secura

Reporte de Análisis Cuantitativo de Fitoplancton (Nº cel/L)

5ta Semana



Semana: 29 de noviembre al 05 de diciembre de 2015

Fechas: 01, 03 y 04 de diciembre de 2015

ZONAS	002 GUAYNUMA															004 I. TORTUGAS			009 SALINAS			010 NONURA								
ESTACION	01-A-GUA**			01-B-GUA**			01-C-GUA**			02-D-GUA**			02-E-GUA**			01-A-TOR**			01-A-SAL**			01-A-NON			01-B-NON			01-C-NON		
PROFUNDIDAD (m)	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	...	...	...	...	...	...	...	...	...
TEMPERATURA (°C)	19.7	18.6	18.0	19.4	18.2	17.7	19.3	18.3	17.9	19.6	18.1	17.7	19.4	18.9	17.9	19.0	18.7	18.6	19.7	19.1	17.7	...	...	...	...	...	...	...	...	...
DIATOMEAS																														
Grupo <i>Pseudo-nitzschia delicatissima</i>	2080	960	880	560	800	3320	480	240	480	480	200	120	360	280	160	760	560	320	400	440	80	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	10560	8560	7360	8080	3440	320	13120	11200	4400	15760	1480	10320	14480	12000	14960	9200	3720	1280	8640	15120	4160	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
DINOFLAGELADOS																														
<i>Alexandrium minutum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Alexandrium monilatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Alexandrium ostenfeldii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Alexandrium peruvianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Alexandrium</i> sp.	40	40	0	40	0	0	0	0	0	40	0	0	80	0	0	0	0	40	0	120	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Azadinium spinosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Cochlodinium polykrikoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Dinophysis acuminata</i>	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Dinophysis caudata</i>	0	0	0	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Dinophysis rotundata</i>	0	40	0	0	0	0	40	0	0	40	0	0	0	0	0	0	0	0	80	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Dinophysis tripos</i>	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	80	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Gonyaulax spinifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Karenia</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Lingulodinium polyedrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Prorocentrum lima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Prorocentrum minimum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	400	40	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Protoceratium reticulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
<i>Protoperdinium crassipes</i>	80	0	0	0	0	80	80	0	0	0	40	80	40	0	0	0	160	0	0	0	0	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M	S/M
FITOFAGELADOS																														
<i>Heterosigma akashiwo</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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.



ORGANISMO NACIONAL DE SANIDAD PESQUERA

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Concesiones de Cultivo de *Argopecten purpuratus* "concha de abanico"

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 023 Virú Naylamp, 017 Culebras, 011 Bahía Samanco, 012 Bahía Sechura

Reporte de Análisis Cuantitativo de Fitoplancton (N° cel/L)

5ta Semana



Semana: 29 de noviembre al 05 de diciembre de 2015

Fechas: 04 y 05 de diciembre de 2015

ZONAS	017 CULEBRAS			011 BAHÍA SAMANCO												012 BAHÍA DE SECHURA			
ESTACION	01-A-CUL			01-B-SAM**			01-C-SAM			02-A-SAM**			02-B-SAM**			12-B-SECH**			13-A-SECH
PROFUNDIDAD (m)	.....	.....	.....	0-5	5-10	10-15	.....	.....	.....	0-5	5-10	10-15	0-5	5-10	10-15	0-5	5-10	10-15	.....
TEMPERATURA (°C)	.....	.....	.....	20.4	17.0	16.2	.....	.....	.....	17.7	16.2	15.8	17.6	16.1	15.8	23.2	22.1	20.8	.....
DIATOMEAS																			
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	0	1000	160	S/M	S/M	S/M	1040	560	560	600	800	480	204204	251579	240144	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	480	2160	1520	S/M	S/M	S/M	5480	920	1080	8800	2320	2960	109453	2740	125790	S/M
DINOFITAGELADOS																			
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	40	80	40	S/M	S/M	S/M	0	0	0	0	40	0	0	40	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	320	0	0	S/M	S/M	S/M	200	0	0	240	200	0	0	0	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	40	0	80	40	40	0	80	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	80	0	0	0	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	4560	80	40	S/M	S/M	S/M	800	0	0	360	0	0	40	0	0	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	40	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	160	320	0	S/M	S/M	S/M	80	40	80	160	200	0	0	0	0	S/M
FITOFITAGELADOS																			
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	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.