



**PROGRAMA DE VIGILANCIA AMBIENTAL DEL VERTIDO AL  
MAR DE LA SALMUERA PROCEDENTE DE LAS PLANTAS  
DESALINIZADORAS I Y II DEL NUEVO CANAL DE  
CARTAGENA EN SAN PEDRO DEL PINATAR:**

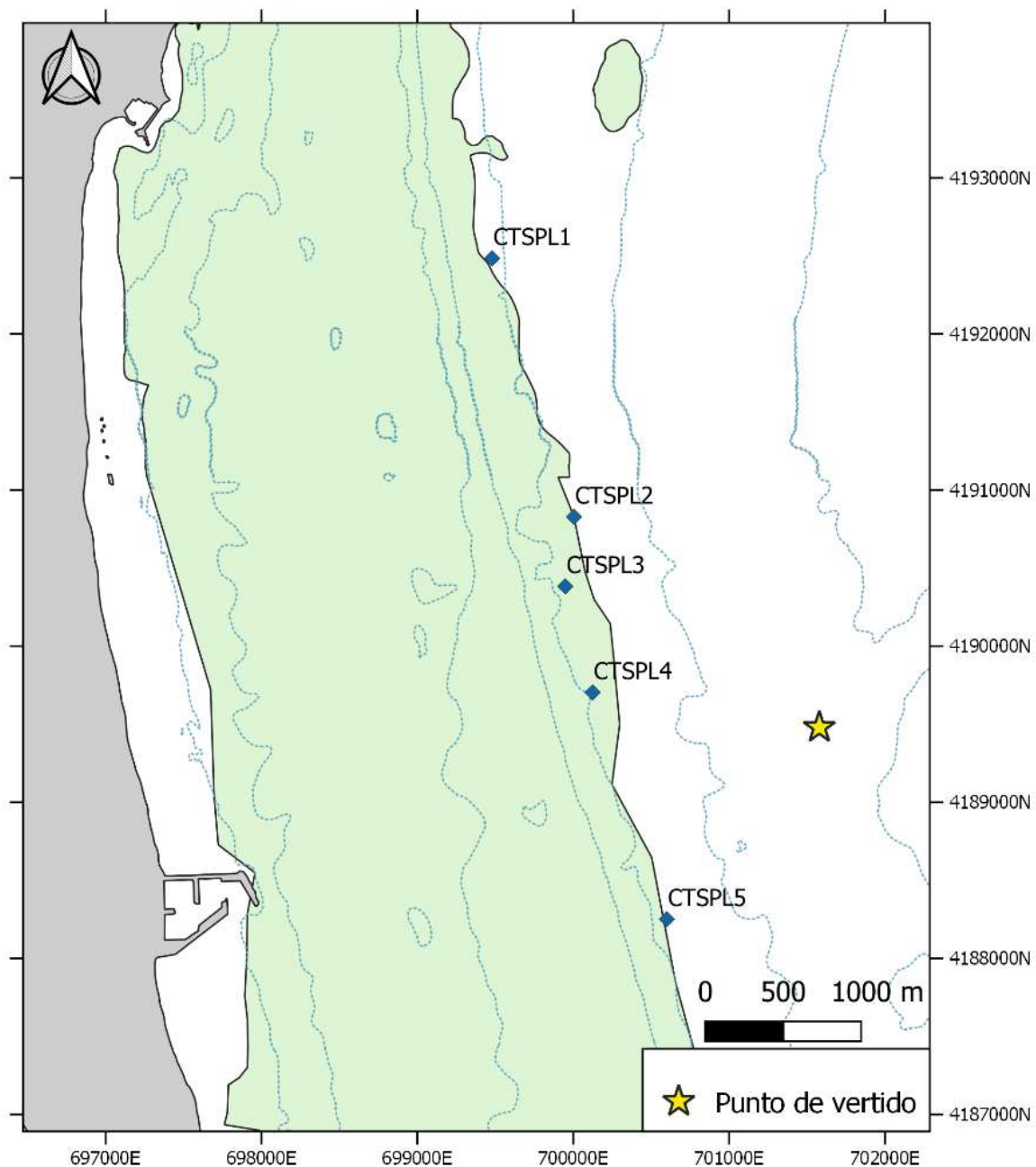
**Segundo informe trimestral desde abril hasta junio de 2021**

**VALORACIÓN:** Los valores de salinidad registrados son normales y similares en todas las estaciones por lo que el vertido de las desalinizadoras no alcanza el límite inferior de las praderas de *Posidonia oceanica*.



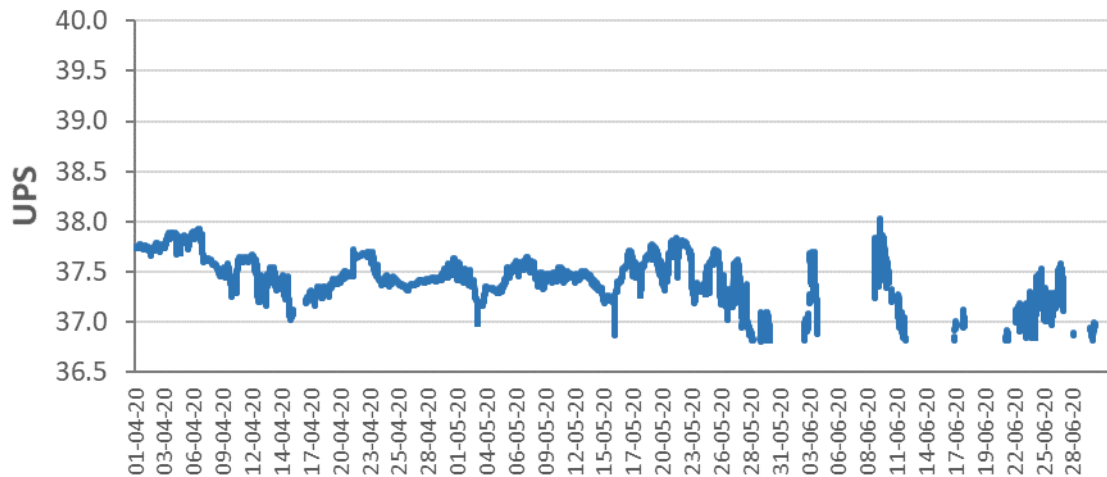
### Control de salinidad y temperatura en las aguas receptoras.

La figura siguiente indica la posición de los sensores de registro de salinidad y temperatura situados aproximadamente a 26 m de profundidad. Además, existen otros equipos en las arquetas del vertido.



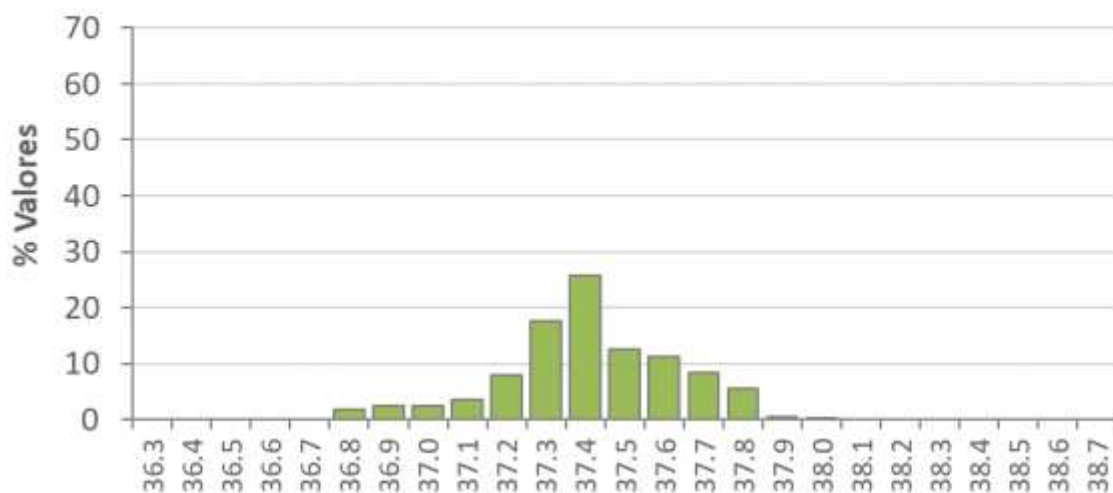


### Salinidad Localidad 1. Abril - Junio 2021



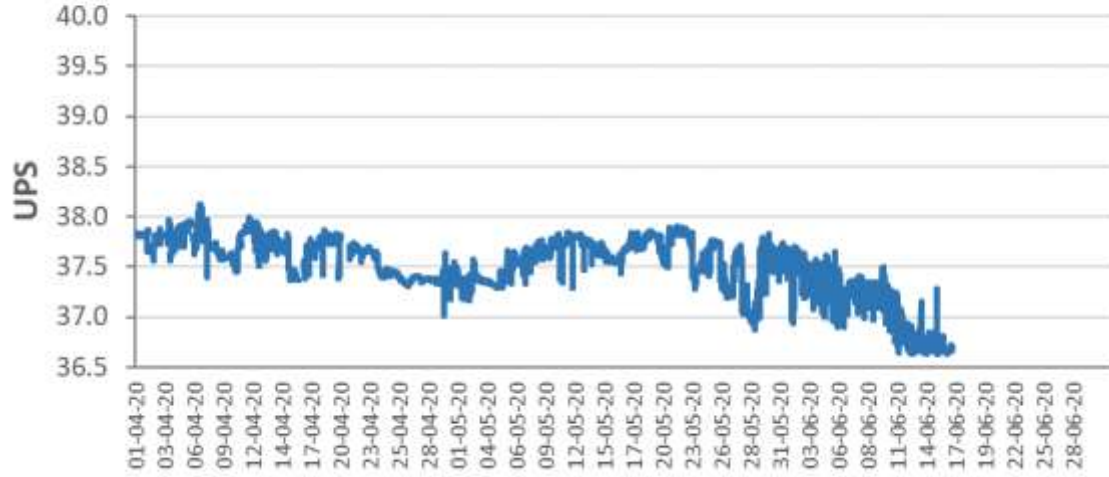
Máximo	Mínimo	Promedio
38.03	36.81	37.46

### Histograma Salinidad Localidad 1. Abril - Junio 2021



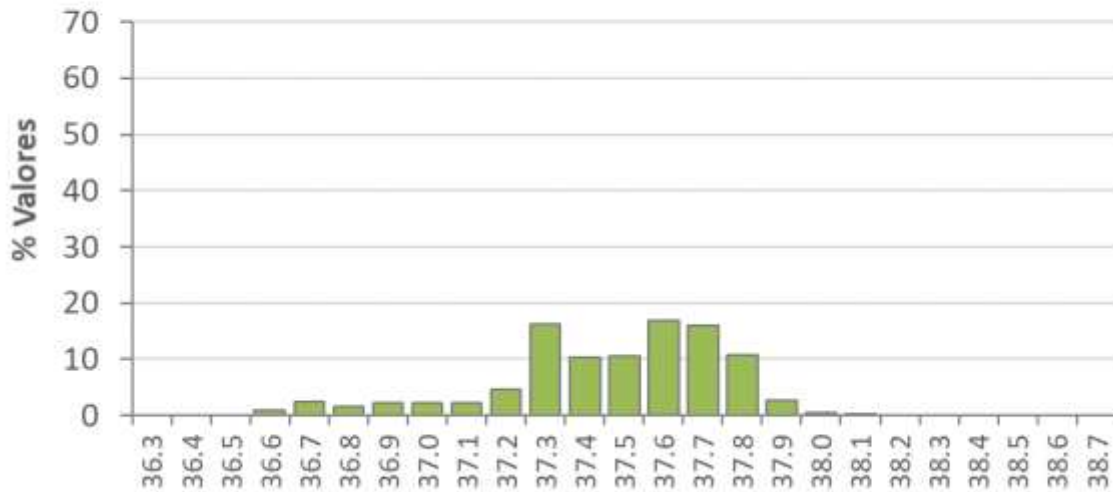


Salinidad Localidad 2. Abril - Junio 2021



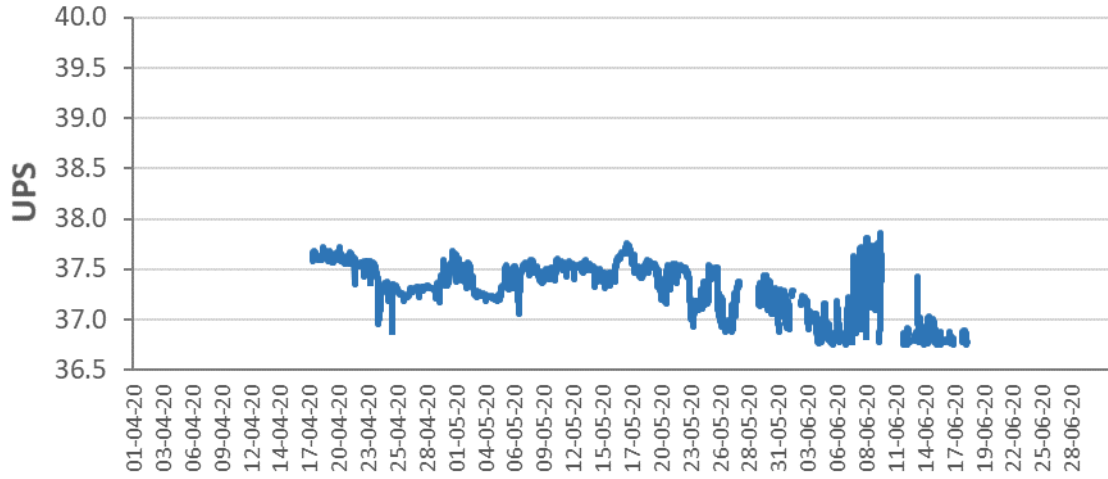
Máximo	Mínimo	Promedio
38.13	36.63	37.52

Histograma Salinidad Localidad 2. Abril - Junio 2021



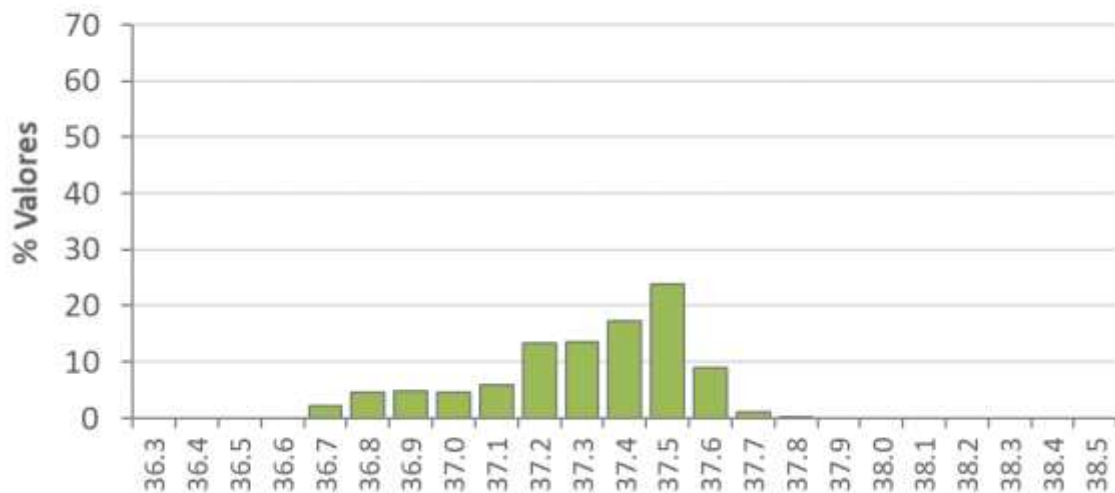


### Salinidad Localidad 3. Abril - Junio 2021



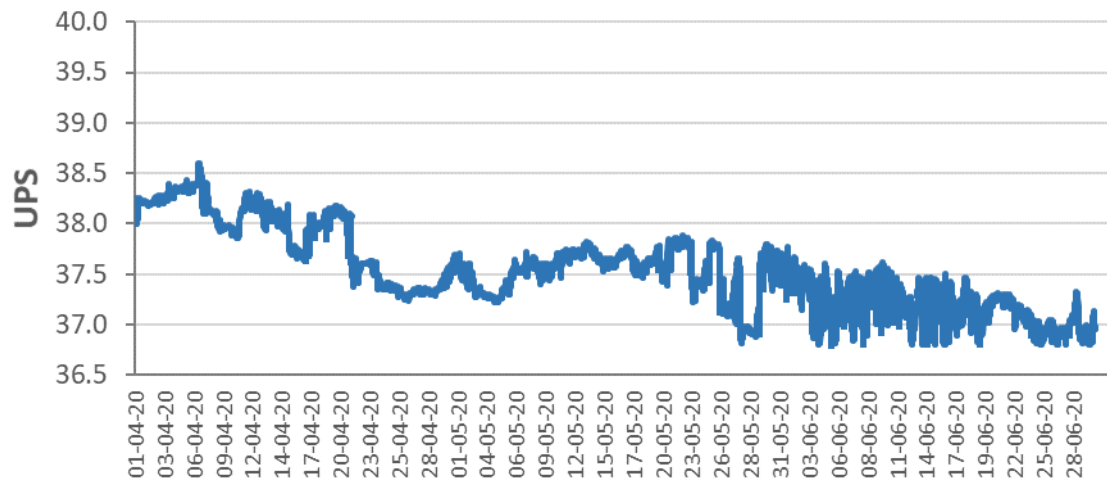
Máximo	Mínimo	Promedio
37.86	36.75	37.36

### Histograma Salinidad Localidad 3. Abril - Junio 2021



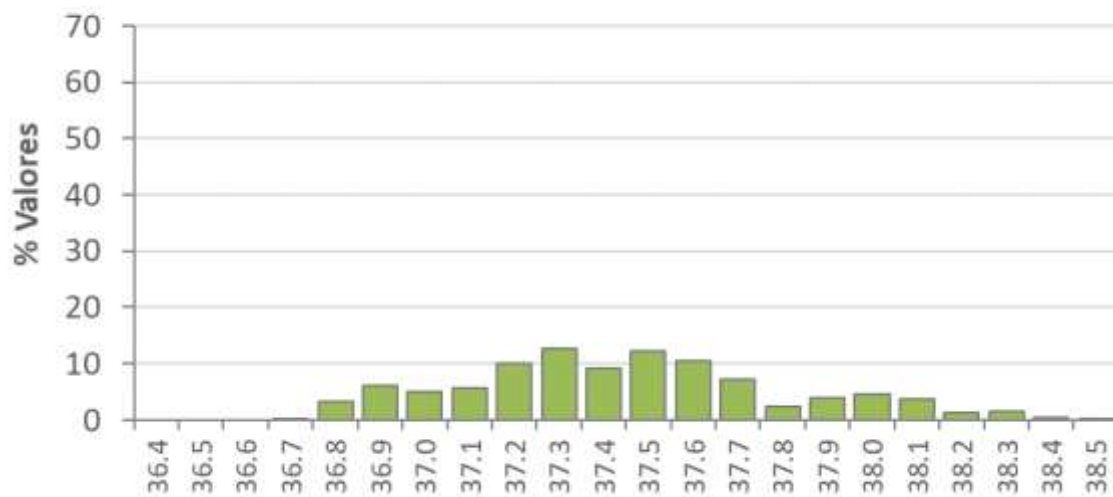


### Salinidad Localidad 4. Abril - Junio 2021



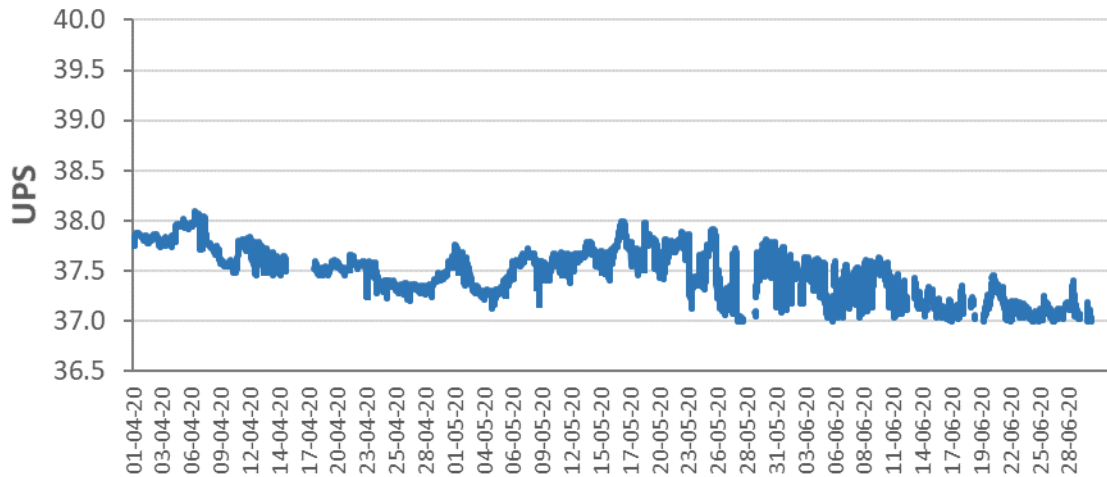
Máximo	Mínimo	Promedio
38.60	36.80	37.54

### Histograma Salinidad Localidad 4. Abril - Junio 2021



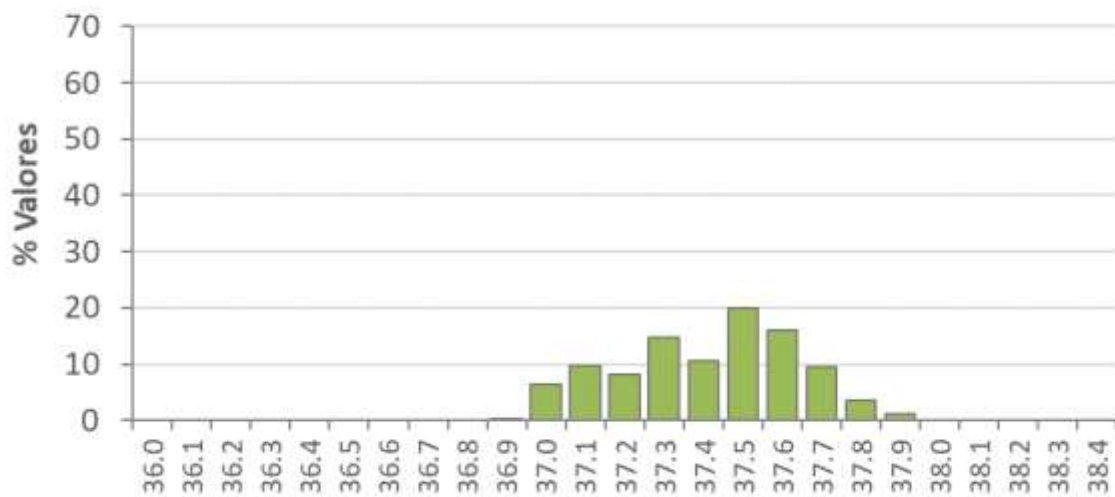


### Salinidad Localidad 5. Abril - Junio 2021



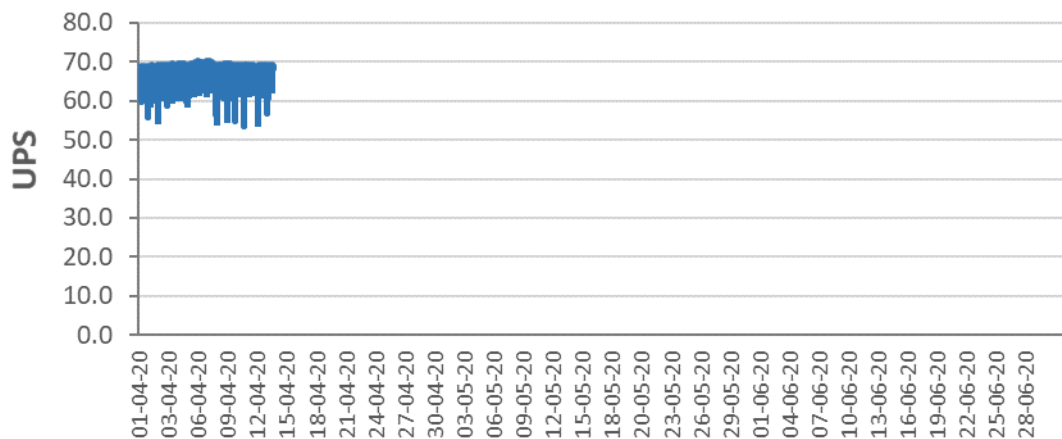
Máximo	Mínimo	Promedio
38.09	37.00	37.51

### Histograma Salinidad Localidad 5. Abril - Junio 2021

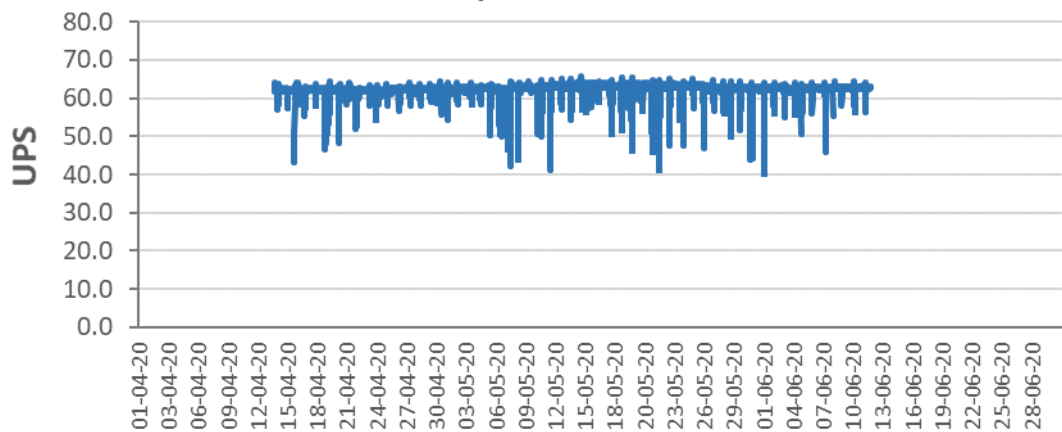




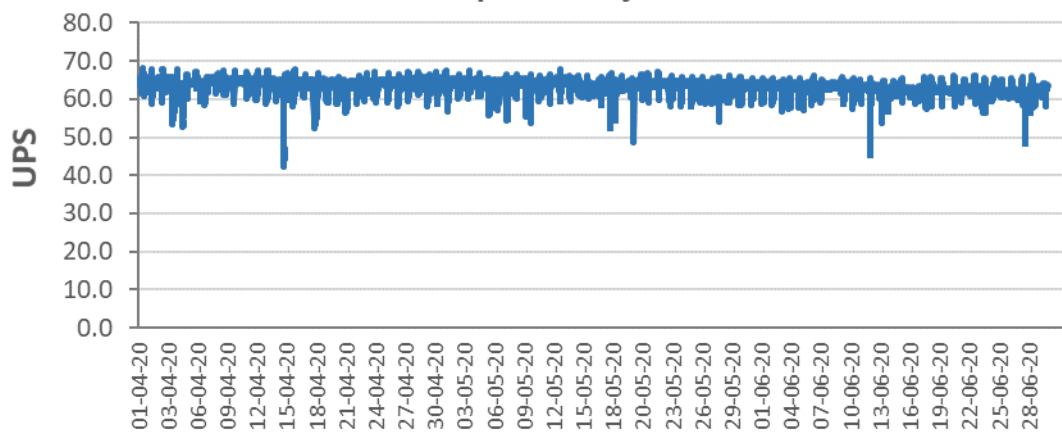
Salinidad Arqueta 1. Abril - Junio 2021



Salinidad Arqueta 2. Abril - Junio 2021



Salinidad Arqueta Conjunta. Abril - Junio 2021

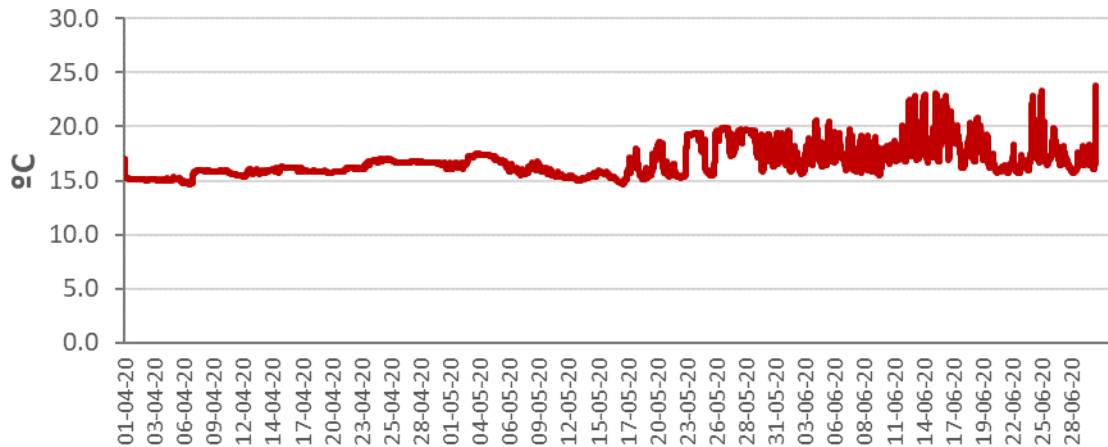




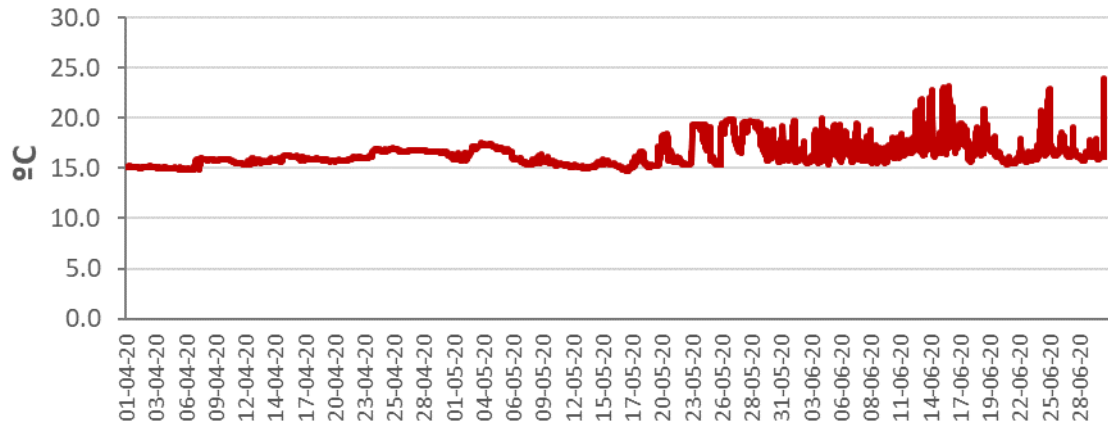


## GRÁFICAS DE TEMPERATURA EN LAS DISTINTAS LOCALIDADES DE CONTROL

### Temperatura Localidad 1. Abril - Junio 2021

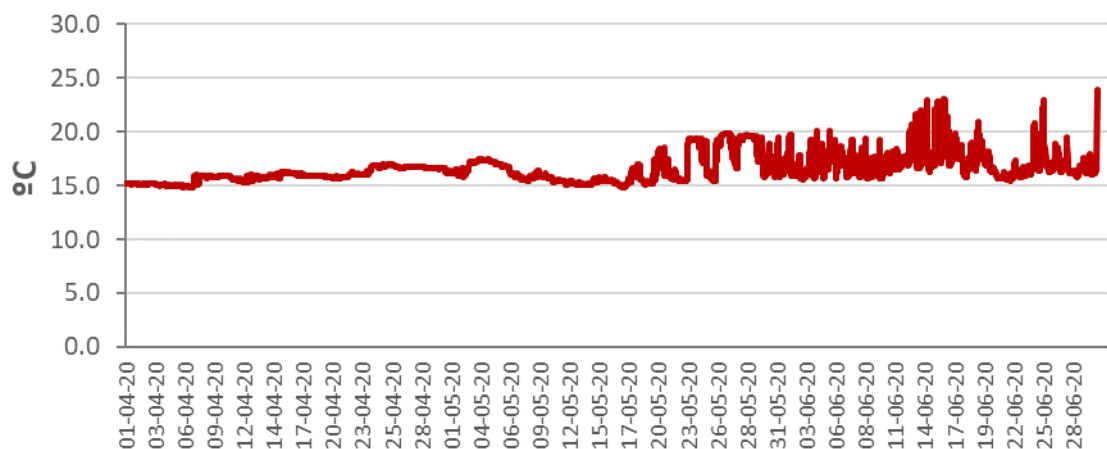


### Temperatura Localidad 2. Abril - Junio 2021

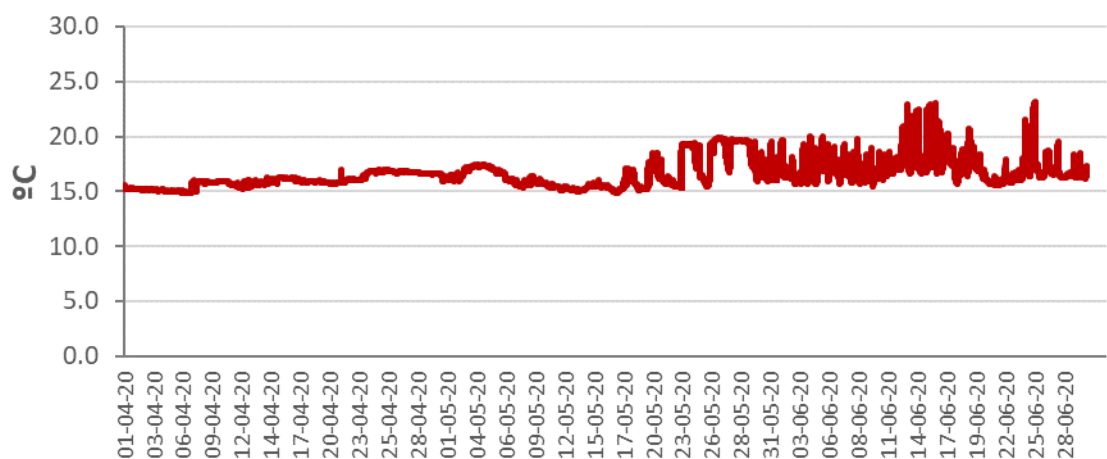




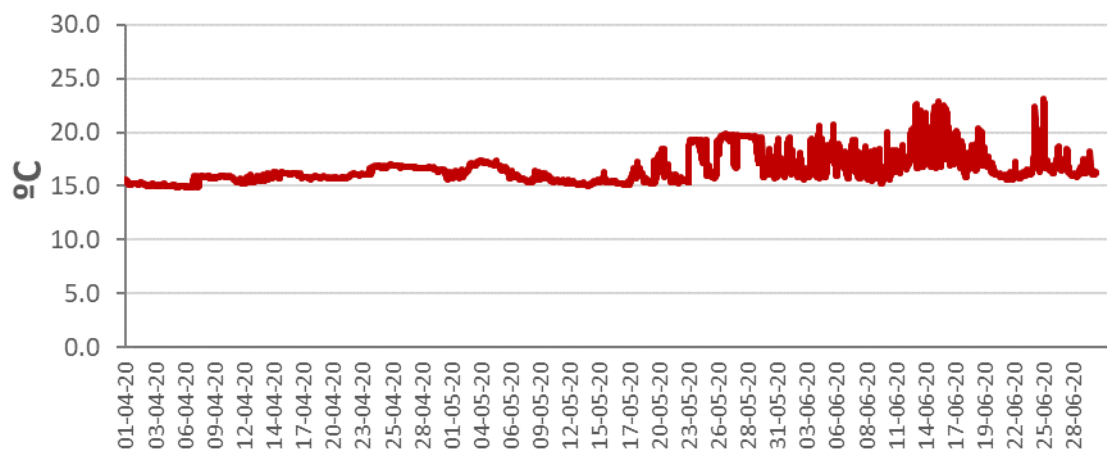
### Temperatura Localidad 3. Abril - Junio 2021



### Temperatura Localidad 4. Abril - Junio 2021



### Temperatura Localidad 5. Abril - Junio 2021





## DESALINIZADORA ANTONIO LEÓN MARTÍNEZ CAMPOS

**Caudales vertidos:** Las tablas siguientes presentan los caudales de agua captados, producidos y vertidos durante los meses de abril. Mayo y junio de 2021 por las desalinizadoras de San Pedro I y II.

San Pedro I	VOLUMEN DE AGUA CAPTADA (m <sup>3</sup> /d)	VOLUMEN DE AGUA PRODUCTO (m <sup>3</sup> /d)	VOLUMEN DE AGUA RECHAZO (m <sup>3</sup> /d)
2020/04/01	112,665	55,521	57,144
2020/04/02	111,509	55,335	56,174
2020/04/03	119,697	59,259	60,438
2020/04/04	107,820	53,335	54,485
2020/04/05	125,298	62,189	63,109
2020/04/06	119,783	59,356	60,427
2020/04/07	132,530	65,550	66,980
2020/04/08	122,239	60,545	61,694
2020/04/09	114,000	56,456	57,544
2020/04/10	111,857	55,452	56,405
2020/04/11	114,661	56,885	57,776
2020/04/12	115,193	57,041	58,152
2020/04/13	113,433	56,297	57,136
2020/04/14	111,964	56,104	55,860
2020/04/15	113,894	55,986	57,908
2020/04/16	113,547	56,373	57,174
2020/04/17	111,066	55,247	55,819
2020/04/18	115,742	57,708	58,034
2020/04/19	115,194	57,183	58,011
2020/04/20	112,816	55,812	57,004
2020/04/21	114,524	56,693	57,831
2020/04/22	113,252	56,040	57,212
2020/04/23	113,439	56,088	57,351
2020/04/24	111,432	55,108	56,324
2020/04/25	113,872	56,315	57,557
2020/04/26	115,338	56,935	58,403
2020/04/27	114,812	56,984	57,828
2020/04/28	113,124	55,825	57,299
2020/04/29	121,190	59,904	61,286
2020/04/30	127,797	63,194	64,603
<b>TOTAL</b>	<b>3,473,688.00</b>	<b>1,720,720.00</b>	<b>1,752,968.00</b>



<b>San Pedro I</b>	<b>VOLUMEN DE AGUA CAPTADA (m<sup>3</sup>/d)</b>	<b>VOLUMEN DE AGUA PRODUCTO (m<sup>3</sup>/d)</b>	<b>VOLUMEN DE AGUA RECHAZO (m<sup>3</sup>/d)</b>
2020/05/01	131,176	64,095	67,081
2020/05/02	122,611	60,580	62,031
2020/05/03	118,766	59,216	59,550
2020/05/04	108,004	53,519	54,485
2020/05/05	118,438	58,626	59,812
2020/05/06	113,062	56,054	57,008
2020/05/07	113,389	56,280	57,109
2020/05/08	112,476	55,929	56,547
2020/05/09	111,785	55,593	56,192
2020/05/10	115,177	57,294	57,883
2020/05/11	114,717	56,816	57,901
2020/05/12	120,461	59,905	60,556
2020/05/13	133,898	66,858	67,040
2020/05/14	126,967	61,912	65,055
2020/05/15	125,965	62,348	63,617
2020/05/16	129,569	64,025	65,634
2020/05/17	135,219	66,954	68,265
2020/05/18	130,354	64,403	65,951
2020/05/19	130,862	64,821	66,041
2020/05/20	129,151	64,054	65,097
2020/05/21	131,015	65,024	65,991
2020/05/22	124,347	61,715	62,632
2020/05/23	129,592	64,357	65,235
2020/05/24	126,279	62,820	63,459
2020/05/25	114,139	56,670	57,469
2020/05/26	112,696	56,010	56,686
2020/05/27	112,911	56,131	56,780
2020/05/28	114,707	56,965	57,742
2020/05/29	112,496	55,755	56,741
2020/05/30	115,381	56,782	58,599
2020/05/31	117,617	58,541	59,076
<b>TOTAL</b>	<b>3,407,733.00</b>	<b>1,688,974.00</b>	<b>1,775,590.00</b>



<b>San Pedro I</b>	<b>VOLUMEN DE AGUA CAPTADA (m<sup>3</sup>/d)</b>	<b>VOLUMEN DE AGUA PRODUCTO (m<sup>3</sup>/d)</b>	<b>VOLUMEN DE AGUA RECHAZO (m<sup>3</sup>/d)</b>
2020/06/01	114,261	56,582	57,679
2020/06/02	115,132	57,112	58,020
2020/06/03	111,611	55,445	56,166
2020/06/04	114,195	56,718	57,477
2020/06/05	113,080	56,273	56,807
2020/06/06	107,786	53,533	54,253
2020/06/07	113,722	56,525	57,197
2020/06/08	116,112	57,672	58,440
2020/06/09	111,824	55,324	56,500
2020/06/10	115,743	57,476	58,267
2020/06/11	113,833	56,686	57,147
2020/06/12	110,872	55,521	55,351
2020/06/13	112,558	55,958	56,600
2020/06/14	118,617	59,229	59,388
2020/06/15	121,843	60,683	61,160
2020/06/16	130,150	64,729	65,421
2020/06/17	130,582	65,020	65,562
2020/06/18	130,122	64,839	65,283
2020/06/19	128,280	63,730	64,550
2020/06/20	132,584	65,972	66,612
2020/06/21	130,331	64,716	65,615
2020/06/22	128,888	63,943	64,945
2020/06/23	134,679	66,947	67,732
2020/06/24	134,956	66,677	68,279
2020/06/25	140,759	69,807	70,952
2020/06/26	127,038	63,255	63,783
2020/06/27	137,706	67,892	69,814
2020/06/28	138,210	68,863	69,347
2020/06/29	138,579	68,777	69,802
2020/06/30	133,751	66,382	67,369
<b>TOTAL</b>	<b>3,435,474.00</b>	<b>1,707,127.00</b>	<b>1,798,149.00</b>



## DESALINIZADORA DEL NUEVO CANAL DE CARTAGENA II

San Pedro II	VOLUMEN DE AGUA CAPTADA (m <sup>3</sup> /d)	VOLUMEN DE AGUA PRODUCTO (m <sup>3</sup> /d)	VOLUMEN DE AGUA RECHAZO (m <sup>3</sup> /d)
2020/04/01	49,436	21,701	27,735
2020/04/02	49,361	21,710	27,651
2020/04/03	49,392	21,725	27,667
2020/04/04	49,516	21,788	27,728
2020/04/05	53,723	21,872	31,851
2020/04/06	77,124	32,435	44,689
2020/04/07	97,653	43,459	54,194
2020/04/08	71,880	32,172	39,708
2020/04/09	49,443	21,841	27,602
2020/04/10	49,569	21,917	27,652
2020/04/11	49,422	21,877	27,545
2020/04/12	49,687	21,746	27,941
2020/04/13	49,572	21,753	27,819
2020/04/14	49,408	21,723	27,685
2020/04/15	49,332	21,726	27,606
2020/04/16	49,107	20,221	28,886
2020/04/17	49,516	21,759	27,757
2020/04/18	49,386	21,761	27,625
2020/04/19	52,456	22,079	30,377
2020/04/20	49,473	21,735	27,738
2020/04/21	49,807	21,810	27,997
2020/04/22	53,157	21,853	27,997
2020/04/23	49,735	21,793	27,942
2020/04/24	50,224	21,863	28,361
2020/04/25	49,802	21,807	27,995
2020/04/26	49,401	21,767	27,634
2020/04/27	49,379	21,734	27,645
2020/04/28	49,355	21,749	27,606
2020/04/29	49,314	21,691	27,623
2020/04/30	62,531	21,729	40,802
<b>TOTAL</b>	<b>1,607,161.00</b>	<b>694,796.00</b>	<b>909,058.00</b>



<b>San Pedro II</b>	<b>VOLUMEN DE AGUA CAPTADA (m<sup>3</sup>/d)</b>	<b>VOLUMEN DE AGUA PRODUCTO (m<sup>3</sup>/d)</b>	<b>VOLUMEN DE AGUA RECHAZO (m<sup>3</sup>/d)</b>
2020/05/01	70,141	21,725	48,416
2020/05/02	58,949	21,750	37,199
2020/05/03	49,440	21,833	27,607
2020/05/04	49,249	21,783	27,466
2020/05/05	49,478	21,822	27,656
2020/05/06	48,454	21,473	26,981
2020/05/07	48,160	21,239	26,921
2020/05/08	48,987	21,676	27,311
2020/05/09	48,803	21,855	26,948
2020/05/10	59,973	26,418	33,555
2020/05/11	65,108	28,968	36,140
2020/05/12	65,501	28,966	36,535
2020/05/13	65,447	28,982	36,465
2020/05/14	65,547	29,096	36,451
2020/05/15	84,485	37,412	47,073
2020/05/16	111,632	50,927	60,705
2020/05/17	98,757	44,102	54,655
2020/05/18	81,751	36,492	45,259
2020/05/19	102,479	45,806	56,673
2020/05/20	96,591	43,517	53,074
2020/05/21	81,778	36,295	45,483
2020/05/22	81,903	36,248	45,655
2020/05/23	81,767	36,357	45,410
2020/05/24	72,424	32,278	40,146
2020/05/25	65,345	29,024	36,321
2020/05/26	65,395	29,030	36,365
2020/05/27	65,406	29,001	36,405
2020/05/28	65,453	28,968	36,485
2020/05/29	65,269	28,982	36,287
2020/05/30	65,261	28,958	36,303
2020/05/31	65,526	29,010	36,516
<b>TOTAL</b>	<b>2,144,459.00</b>	<b>939,993.00</b>	<b>1,204,466.00</b>



<b>San Pedro II</b>	<b>VOLUMEN DE AGUA CAPTADA (m<sup>3</sup>/d)</b>	<b>VOLUMEN DE AGUA PRODUCTO (m<sup>3</sup>/d)</b>	<b>VOLUMEN DE AGUA RECHAZO (m<sup>3</sup>/d)</b>
2020/06/01	65,346	28,969	36,377
2020/06/02	65,472	28,995	36,477
2020/06/03	65,341	28,965	36,376
2020/06/04	65,241	28,862	36,379
2020/06/05	65,494	28,933	36,561
2020/06/06	65,449	28,976	36,473
2020/06/07	65,414	28,956	36,458
2020/06/08	65,095	29,005	36,090
2020/06/09	64,862	29,126	35,736
2020/06/10	65,368	29,056	36,312
2020/06/11	65,361	29,064	36,297
2020/06/12	73,781	32,852	40,929
2020/06/13	79,563	36,357	43,206
2020/06/14	101,201	45,212	55,989
2020/06/15	115,449	51,646	63,803
2020/06/16	105,330	47,112	58,218
2020/06/17	105,330	47,112	58,218
2020/06/18	98,270	43,597	54,673
2020/06/19	98,442	43,635	54,807
2020/06/20	98,821	43,742	55,079
2020/06/21	98,061	43,491	54,570
2020/06/22	98,252	43,626	54,626
2020/06/23	98,090	43,572	54,518
2020/06/24	98,804	43,665	55,139
2020/06/25	100,898	43,624	57,274
2020/06/26	99,388	43,572	55,816
2020/06/27	99,221	43,458	55,763
2020/06/28	99,186	43,405	55,781
2020/06/29	99,640	43,773	55,867
2020/06/30	98,385	44,743	53,642
<b>TOTAL</b>	<b>2,584,555.00</b>	<b>1,147,101.00</b>	<b>29,363.00</b>





## RESULTADOS DEL ANÁLISIS DE SALMUERA TOMADA EN LA ARQUETA DE LA IDAM

Los análisis fueron realizados siguiendo los procedimientos establecidos en el “*Standard Methods for the examination of water*”.

	<b>Abril</b>	<b>Mayo</b>	<b>Junio</b>
<b>Sólidos en Suspensión (mg/L)</b>	6	4	2
<b>DBO (mg/L)</b>	<0.5	<0.5	<0.5
<b>DQO (mg/L)</b>	<5	<5	<5
<b>pH (Ud. pH)</b>	7.51	7.52	7.58
<b>Nitrógeno Total (mg/L)</b>	<0.15	0.15	<0.15
<b>Fósforo Total (µg/L)</b>	12	129	148
<b>Temperatura</b>	18.19	19.33	22.71
<b>Salinidad (ups)</b>	64.27	65.49	64.20
<b>Detergentes (mg/L LAS)</b>	<0.1	<0.1	<0.1
<b>Hierro (µg/L)</b>	4.1	4.7	6.7
<b>Níquel (µg/L)</b>	0.8	0.9	1.3
<b>Cobre (µg/L)</b>	5.4	4.7	6.4
<b>Cloro residual total (mg/L)</b>	<0.1	<0.1	<0.1