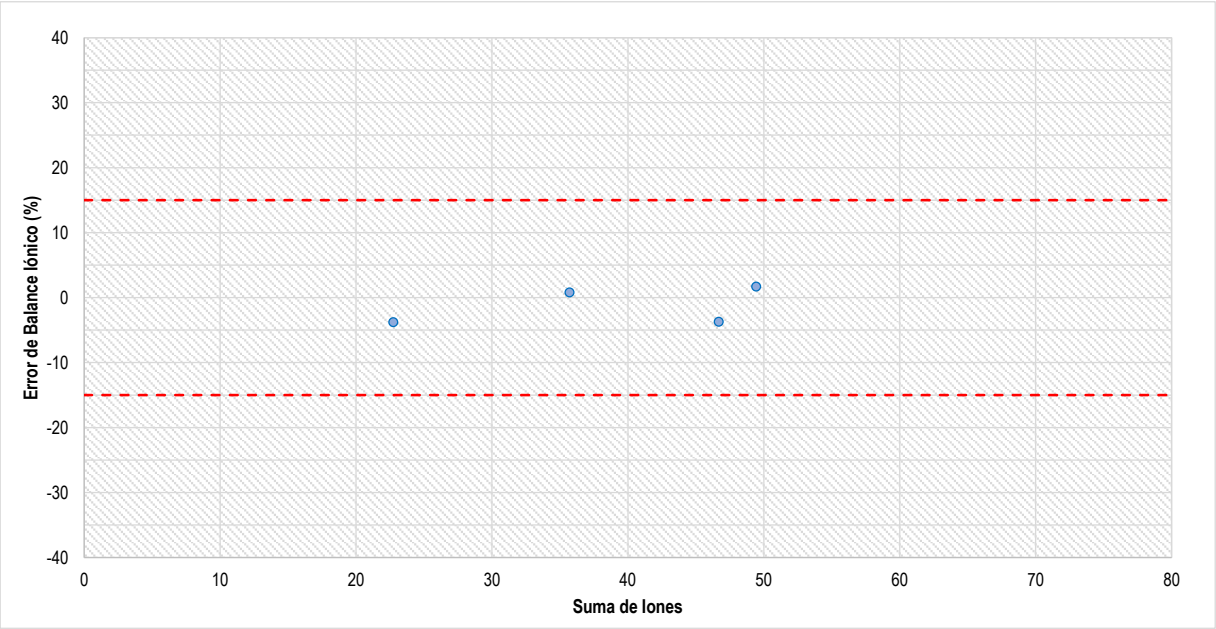
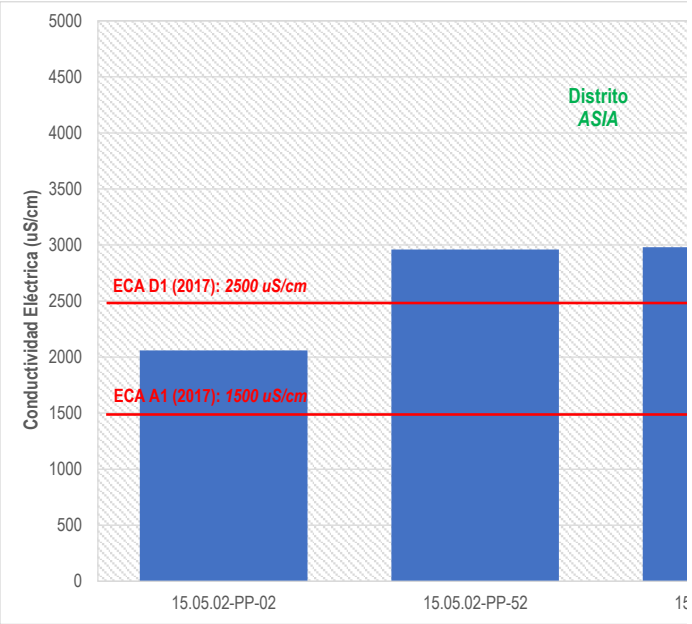
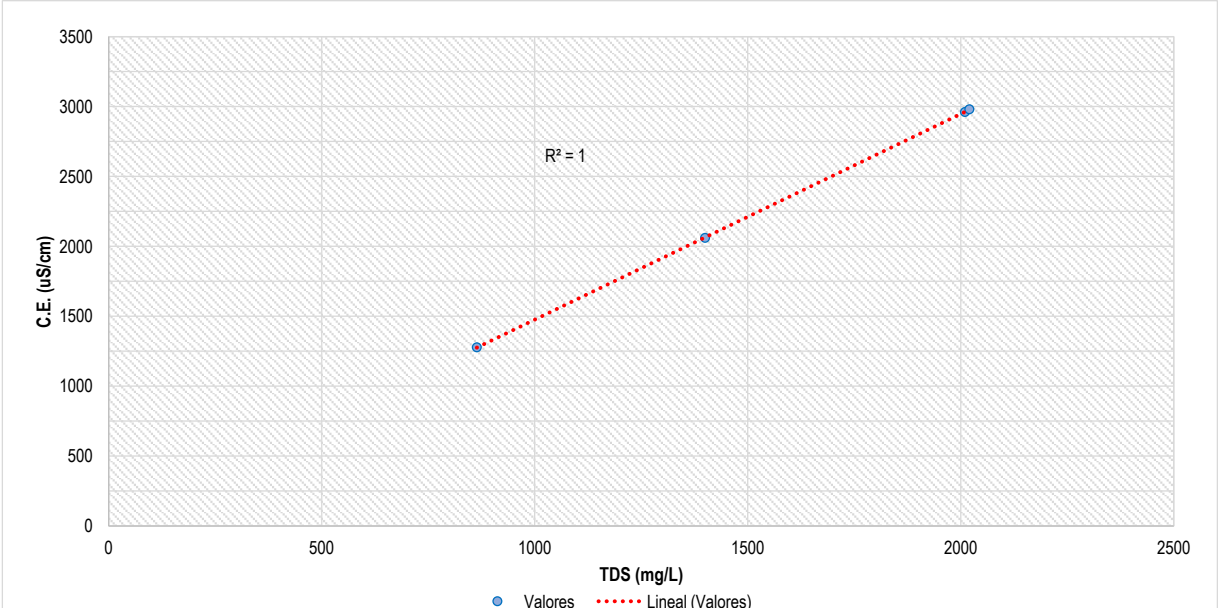
ITEM	NOMBRE DEL ACUÍFERO	IRHS	ESTADO	TIPO	TEMPERATURA DEL AGUA (°C)	CONDUCTIVIDAD DEL AGUA (uS/cm)	pH DEL AGUA	ORP DEL AGUA (mV)	TDS DEL AGUA (ppm)	Coliformes Termotolerantes (NMP/100mL)	Escherichia Coli (NMP/100mL)	B total (mg/L)	Alcalinidad Bicarbonato (mg CaCO3/L)	Alcalinidad Carbonato (mg CaCO3/L)	Total carbonato (mg CaCO3/L)	Ca total (mg/L)	Mg total (mg/L)	Na total (mg/L)	K total (mg/L)	HCO3 (mg/L)	CO3 (mg/L)	Cloruros, Cl- (mg/L)	Sulfatos, SO4-2 (mg/L)	Nitratos, NO3- (mg NO3-/L)	Na (meq/l)	K (meq/l)	Ca (meq/l)	Mg (meq/l)
2	HUAURA	15.05.02-PP-02	Utilizable	PTA		2060	7.34		1400	< 1.8	< 1.8	0.1157	171.78	0	171.78	209.948	37.239	100.0042	3.375	209.572	0	291.4	246.3	59.53	4.35	0.09	10.50	3.06
1	HUAURA	15.05.02-PP-52	Utilizado	PTA		2960	7.12		2010	2200	240	0.0705	172.67	0	172.67	291.061	48.0379	89.6649	2.638	210.657	0	574.4	207.8	15.55	3.90	0.07	14.55	3.95
3	HUAURA	15.05.02-PP-88	Utilizado	PTA		2980	7.19		2020	14000	1700	0.084	173.48	0	173.48	322.307	55.3424	101.0296	3.005	211.646	0	576.2	209.2	14.89	4.39	0.08	16.12	4.55
4	HUAURA	15.05.02-PP-111	Utilizado	PTA		1278	7.4		864	< 1.8	< 1.8	0.1326	201.02	0	201.02	108.459	22.5889	80.6309	5.868	245.244	0	128.6	198.8	0.8	3.51	0.15	5.42	1.86

HCO3 (meq/l)	CO3 (meq/l)	Cl (meq/l)	SO4 (meq/l)	NO3 (meq/l)	RAS	Suma cationes	Suma aniones	% error	Suma iones	% HCO3	%Cl	%SO4	%Na+K	% Ca	% Mg	TIPO_GENERAL	TIPO_DETALLE
3.44	0.00	8.21	5.13	0.93	1.67	18.00	17.71	0.82	35.70	19.40	46.36	28.98	24.64	58.33	17.03	CLORURADA CÁLCICA	
3.45	0.00	16.18	4.33	0.24	1.28	22.47	24.21	-3.71	46.68	14.27	66.84	17.88	17.65	64.76	17.59	CLORURADA CÁLCICA	
3.47	0.00	16.23	4.36	0.23	1.37	25.14	24.29	1.72	49.43	14.28	66.82	17.94	17.78	64.10	18.12	CLORURADA CÁLCICA	
4.02	0.00	3.62	4.14	0.01	1.84	10.94	11.80	-3.78	22.74	34.08	30.71	35.11	33.43	49.58	17.00	SULFATADA CÁLCICA	

ANION	CATION	% HCO3	%Cl	%SO4	%Na+K	% Ca	% Mg
46.36	58.33		X			X	
66.84	64.76		X			X	
66.82	64.10		X			X	
35.11	49.58			X		X	

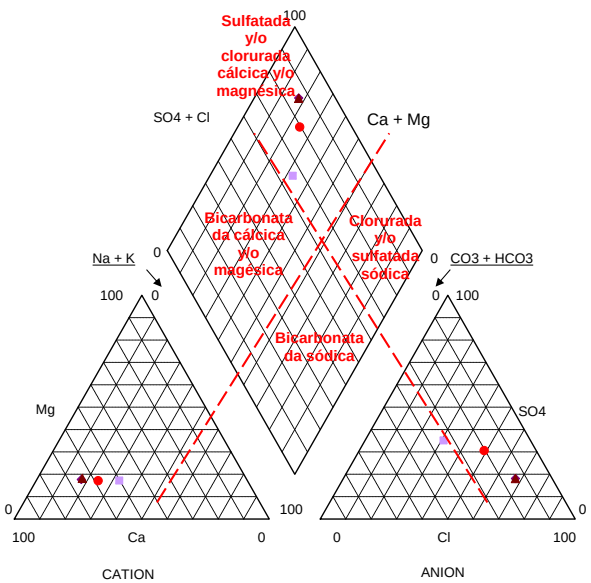

Error de Balance Iónico (%)
Suma de Iones
40
30
20
10
0
-10
-20
-30
-40
0
10
20
30
40
50
60
70
80


Distrito
ASIA
Conductividad Eléctrica (uS/cm)
ECA D1 (2017): 2500 uS/cm
ECA A1 (2017): 1500 uS/cm
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
15.05.02-PP-02
15.05.02-PP-52


C.E. (uS/cm)
TDS (mg/L)
R² = 1
3500
3000
2500
2000
1500
1000
500
0
0
500
1000
1500
2000
2500
Valores
Lineal (Valores)

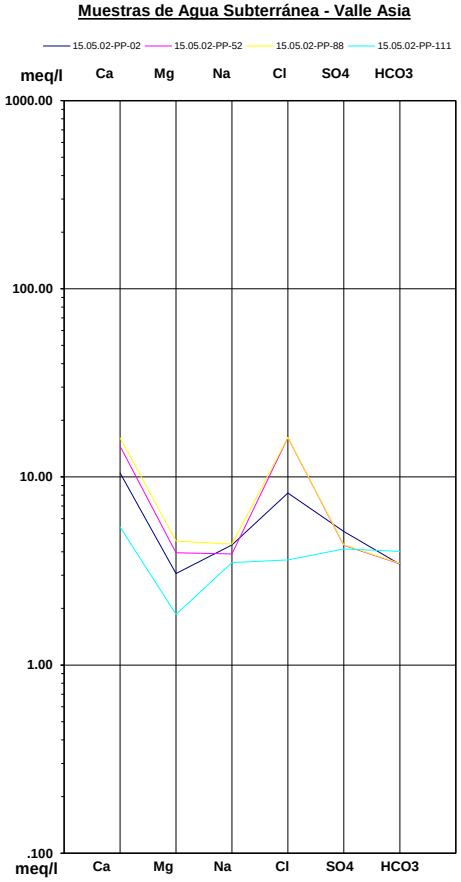
Estadístico	Conductividad	pH	STD
	µS/cm	Unidad de pH	mg/L
Media	2319.50	7.26	1573.50
Mediana	2510.00	7.27	1705.00
Desviación estándar	816.20	0.13	554.79
Varianza de la muestra	666187.67	0.02	307795.67
Curtosis	-1.94	-3.69	-1.88
Coeficiente de asimetría	-0.73	-0.06	-0.74
Rango	1702.00	0.28	1156.00
Mínimo	1278.00	7.12	864.00
Máximo	2980.00	7.40	2020.00

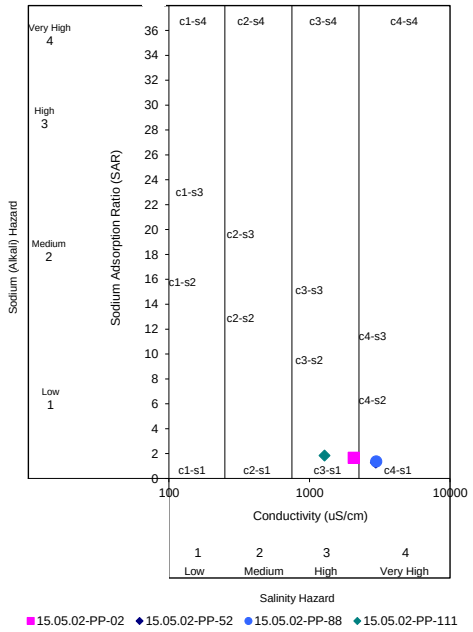
Estadística	Cationes				Aniones				
	Calcio	Magnesio	Sodio	Potasio	Cloruros	Sulfatos	Bicarbonato	Carbonato	Nitratos
	Ca^{+2} meq/L	Mg^{+2} meq/L	Na^{+} meq/L	k^{+} meq/L	Cl^{-1} meq/L	SO_4 meq/L	HCO_3^{-1} meq/L	CO_3^{-2} meq/L	NO^{-}_3 meq/L
Media	11.65	3.36	4.04	0.10	11.06	4.49	3.59	0.00	0.35
Mediana	12.53	3.51	4.12	0.08	12.19	4.34	3.46	0.00	0.24
Desviación estándar	4.78	1.17	0.42	0.04	6.23	0.44	0.28	0.00	0.40
Varianza de la muestra	22.82	1.37	0.17	0.00	38.80	0.19	0.08	0.00	0.16
Curtosis	-0.88	-0.71	-2.04	3.18	-3.47	3.22	3.95	#¡DIV/0!	2.92
Coeficiente de asimetría	-0.79	-0.61	-0.70	1.75	-0.45	1.70	1.99	#¡DIV/0!	1.56
Rango	10.69	2.70	0.89	0.08	12.61	0.99	0.58	0.00	0.92
Mínimo	5.42	1.86	3.51	0.07	3.62	4.14	3.44	0.00	0.01
Máximo	16.12	4.55	4.39	0.15	16.23	5.13	4.02	0.00	0.93



Muestras de Agua Subterránea - Valle Asia

15.05.02-PP-02 15.05.02-PP-52 15.05.02-PP-88 15.05.02-PP-111





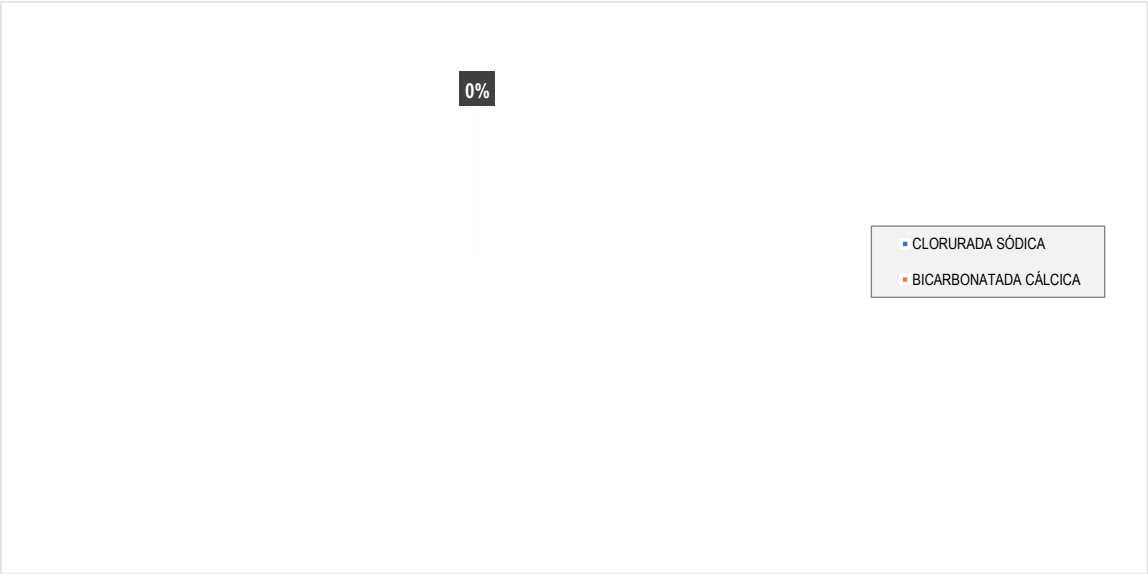
15.05.02-PP-111

15.05.02-PP-88

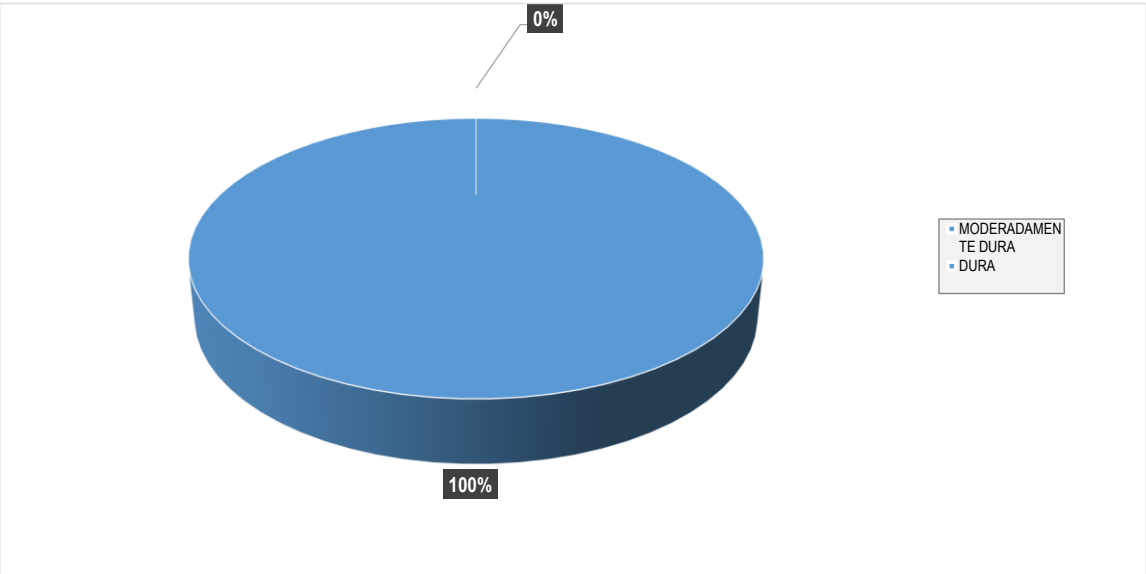
15.05.02-PP-52

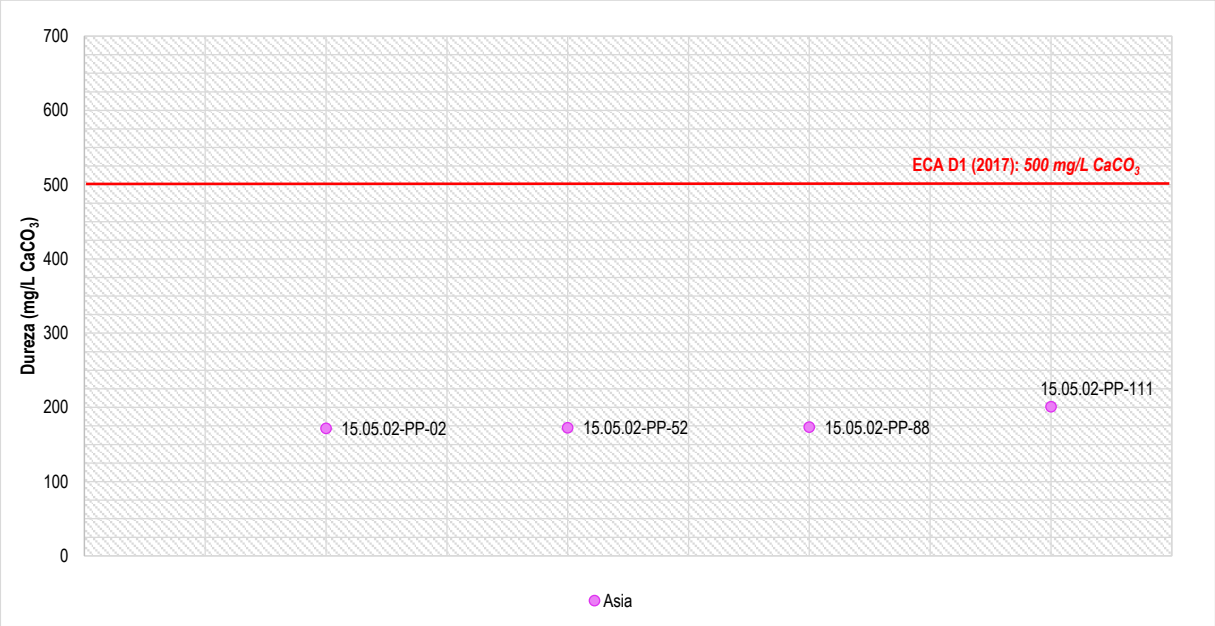
15.05.02-PP-02

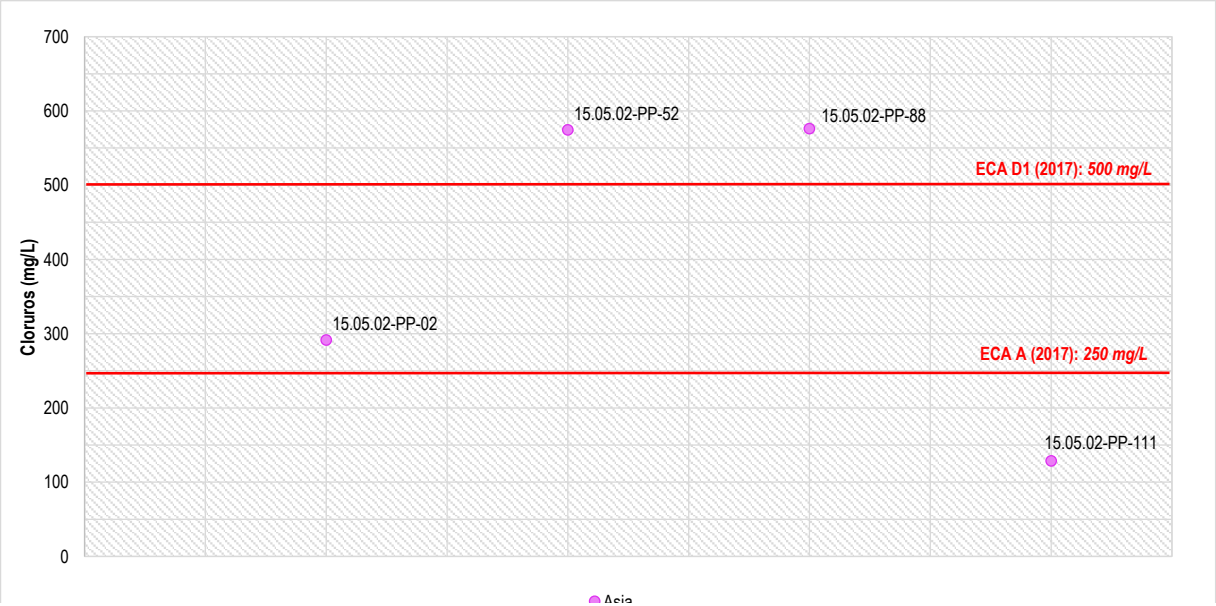
1	SULFATADA CÁLCICA
3	CLORURADA CÁLCICA
0	CLORURADA SÓDICA
0	BICARBONATADA SÓDICA
0	BICARBONATADA CÁLCICA
0	SULFATADA SÓDICA
0	SULFATADA MAGNÉSICA
0	CLORURADA MAGNÉSICA
0	BICARBONATADA MAGNÉSICA

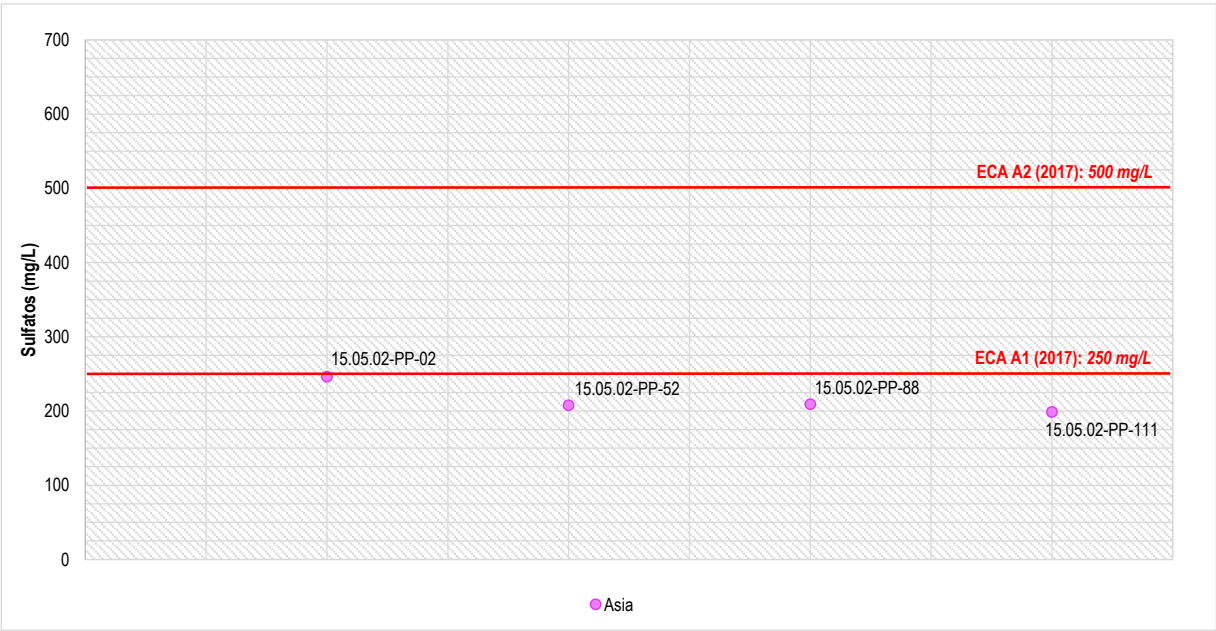


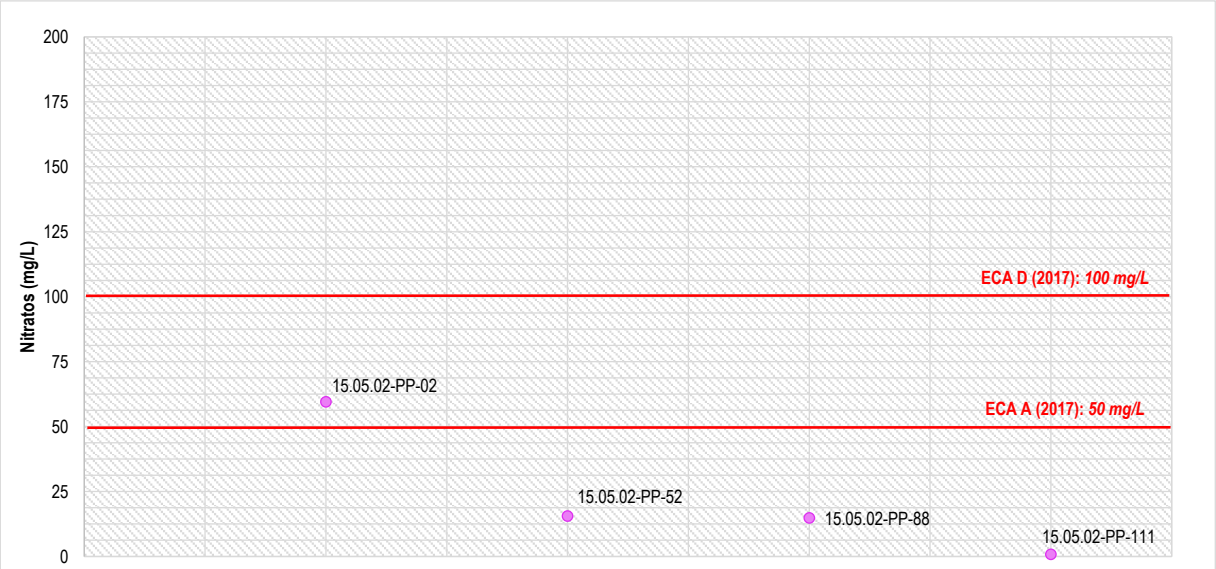
Concentración mg/L CaCO3		Denominación	
0	75	BLANDA	0
75	150	MODERADAMENTE DURA	0
150	300	DURA	4
>300		MUY DURA	0



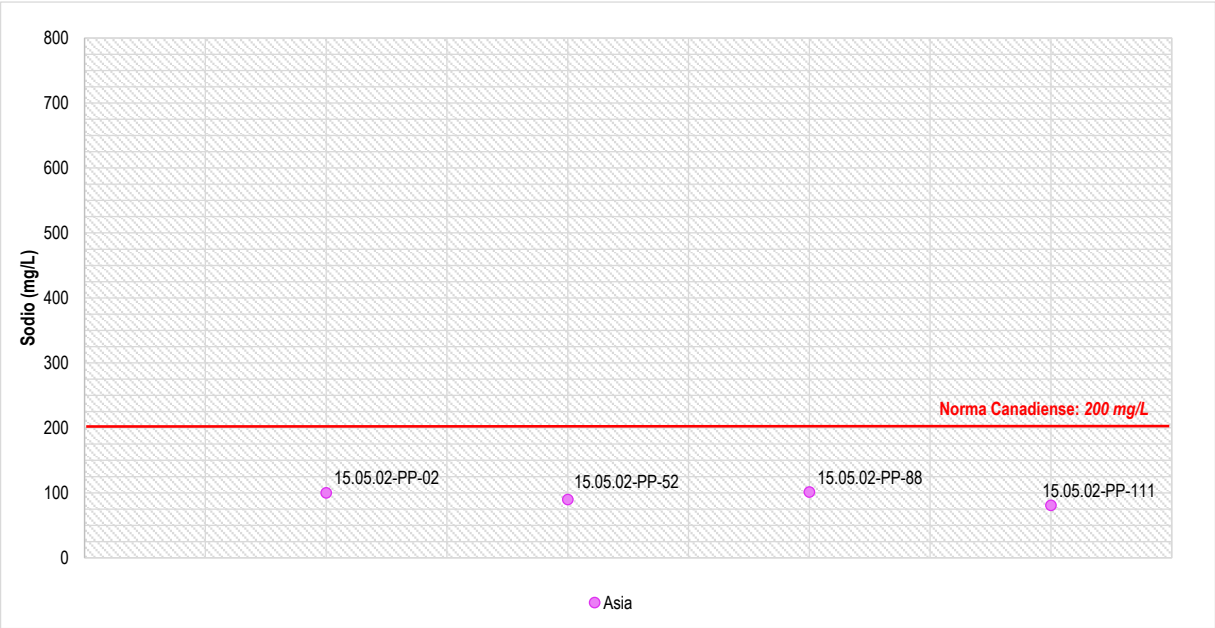

700
600
500
400
300
200
100
0
Dureza (mg/L CaCO3)
ECA D1 (2017): 500 mg/L CaCO3
15.05.02-PP-02
15.05.02-PP-52
15.05.02-PP-88
15.05.02-PP-111
Asia

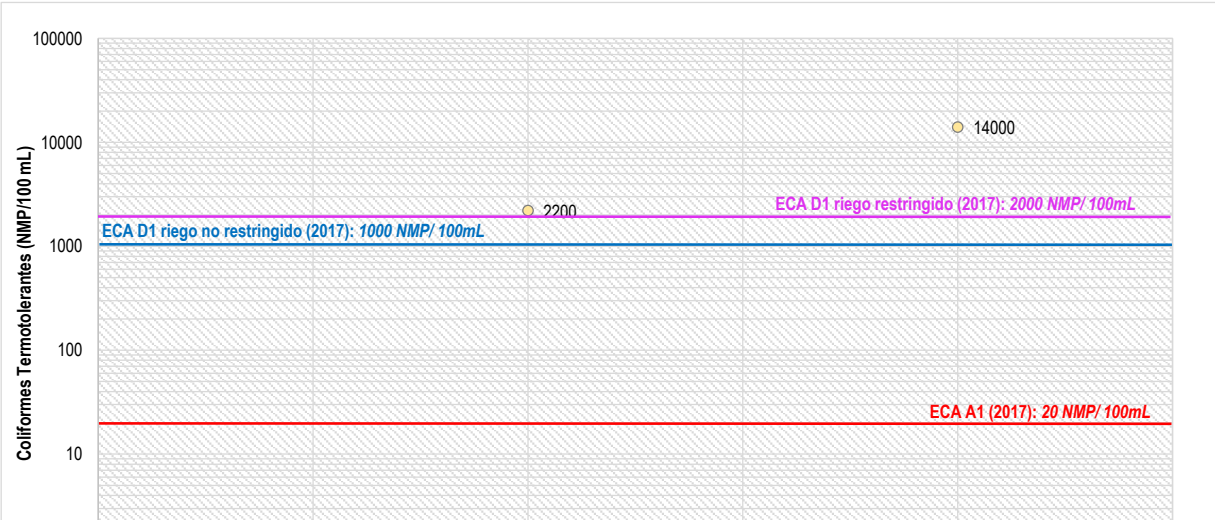

700
600
500
400
300
200
100
0
Cloruros (mg/L)
15.05.02-PP-52
15.05.02-PP-88
ECA D1 (2017): 500 mg/L
15.05.02-PP-02
ECA A (2017): 250 mg/L
15.05.02-PP-111

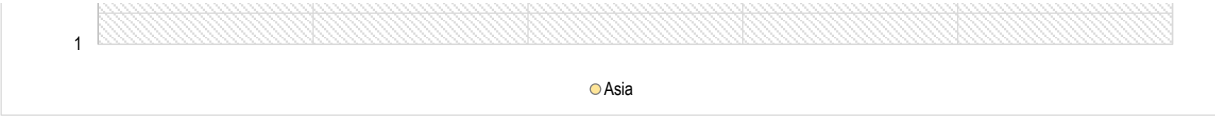

Sulfatos (mg/L)
700
600
500
400
300
200
100
0
ECA A2 (2017): 500 mg/L
ECA A1 (2017): 250 mg/L
15.05.02-PP-02
15.05.02-PP-52
15.05.02-PP-88
15.05.02-PP-111
Asia

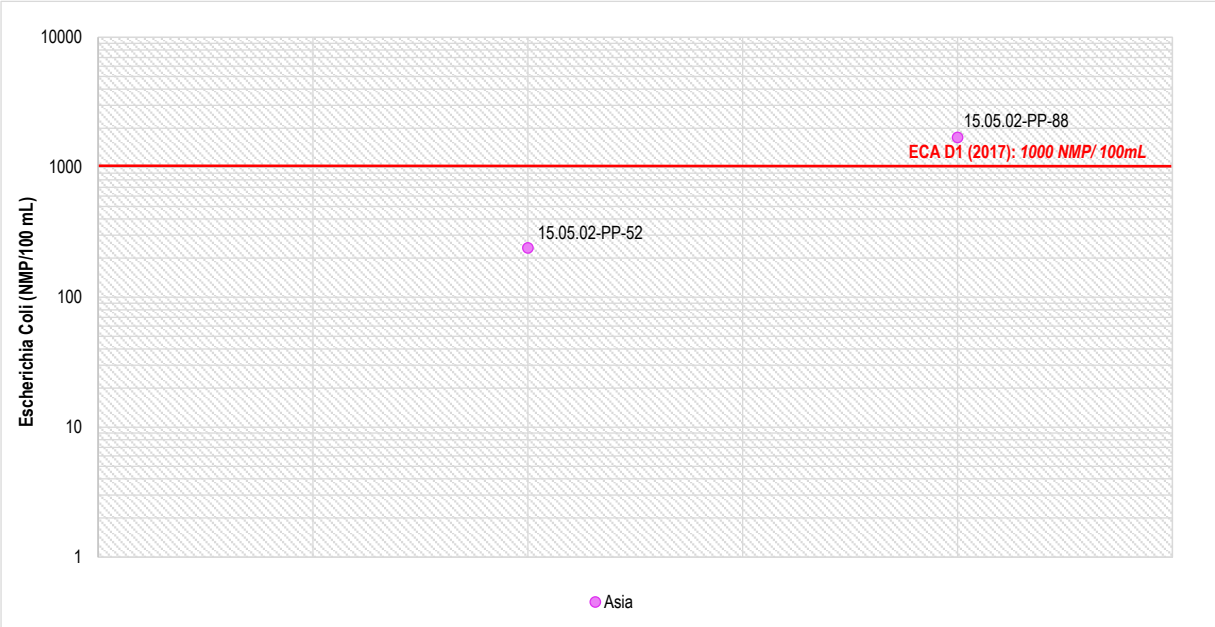

Nitratos (mg/L)
200
175
150
125
100
75
50
25
0
ECA D (2017): 100 mg/L
ECA A (2017): 50 mg/L
15.05.02-PP-02
15.05.02-PP-52
15.05.02-PP-88
15.05.02-PP-111

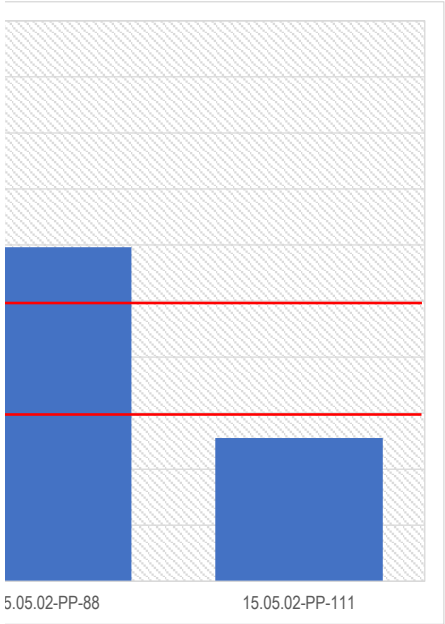
Asia


Sodio (mg/L)
800
700
600
500
400
300
200
100
0
Norma Canadiense: 200 mg/L
15.05.02-PP-02
15.05.02-PP-52
15.05.02-PP-88
15.05.02-PP-111
Asia


Coliformes Termotolerantes (NMP/100 mL)
100000
10000
1000
100
10
14000
2200
ECA D1 riego restringido (2017): 2000 NMP/ 100mL
ECA D1 riego no restringido (2017): 1000 NMP/ 100mL
ECA A1 (2017): 20 NMP/ 100mL


1
Asia


10000
1000
100
10
1
Escherichia Coli (NMP/100 mL)
15.05.02-PP-88
ECA D1 (2017): 1000 NMP/ 100mL
15.05.02-PP-52
Asia


5.05.02-PP-88
15.05.02-PP-111