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**Sustainable groundwater development in the coastal Tra Vinh province in Vietnam under saltwater intrusion and
climate change**

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Computed aquifer parameters from pumping tests

All well pumping tests were done from 2002 to 2016 in several projects by Division for Water Resources Planning and Investigation for the South of Vietnam. The Division used AquiferTest software (mainly Copper & Jacob and Recovery methods) to analyze pumping data.

Table S1. Hydraulic properties of the upper Pleistocene aquifer (qp₃)

No	Well ID	X	Y	Kh, (m/day)	Kv (m/day)	S _y	S _s
1	DH1	665515	1060801	5.9	0.6	0.15	0.00001
2	DH3C	666945	1061532	5.0	0.5	0.15	0.00001
3	DH1C	666005	1060966	4.0	0.4	0.14	0.00001
4	RM1C	663112	1059196	3.9	0.4	0.14	0.00001
5	RM2C	670857	1064720	4.1	0.4	0.14	0.00001
6	RM3C	666945	1061532	5.0	0.5	0.15	0.00001
7	S105	662976	1070284	2.0	0.2	0.13	0.00001
8	9605-II	663601	1083117	18.4	1.8	0.18	0.00001
9	833C-TV	641585	1091853	14.2	1.4	0.17	0.00001
10	S101	615767	1091810	20.0	2.0	0.18	0.00001
11	217-III-NB	663824	1065372	12.0	1.2	0.17	0.00001
12	TV1-TV	633570	1072669	27.7	2.8	0.19	0.00001
13	TV2-TV	638478	1076980	15.9	1.6	0.17	0.00001
14	TV3-TV	656796	1068756	14.0	1.4	0.17	0.00001
15	TV4-TV	658235	1080469	10.3	1.0	0.16	0.00001
16	TV5-TV	643080	1065329	4.0	0.4	0.14	0.00001
17	TV6-TV	667747	1070845	9.9	1.0	0.16	0.00001
18	903	612165	1055047	19.3	1.9	0.18	0.00001
20	213-I	607240	1079840	11.7	1.2	0.17	0.00001
21	21-TC	630260	1084847	4.0	0.4	0.14	0.00001

Table S2. Hydraulic properties of the upper - middle Pleistocene aquifer (qp₂₋₃)

No	Well ID	X	Y	Kh, (m/day)	Kv (m/day)	S _y	S _s
1	VCTV2	656296	1068806	15.9	1.6	0.17	0.00001
2	VCTV4	642445	1069431	26.9	2.7	0.19	0.00001
3	VCTV6	652331	1079013	27.3	2.7	0.19	0.00001
4	VCTV8	647271	1083823	28.0	2.8	0.19	0.00001
5	TV1_TV	633570	1072669	30.0	3.0	0.19	0.00001
6	TV2_TV	638478	1076980	35.0	3.5	0.19	0.00001
7	TV3_TV	656796	1068756	34.6	3.5	0.19	0.00001
8	TV4_TV	658235	1080469	25.0	2.5	0.19	0.00001
9	TV5_TV	643080	1065329	18.0	1.8	0.18	0.00001
10	TV6_TV	667747	1070845	20.6	2.1	0.18	0.00001

No	Well ID	X	Y	Kh, (m/day)	Kv (m/day)	S _y	S _s
11	DH1	665515	1060801	20.0	2.0	0.18	0.00001
12	DH3A	666945	1061532	24.0	2.4	0.18	0.00001
13	DH1A	666005	1060966	21.9	2.2	0.18	0.00001
14	S105	662976	1070284	25.0	2.5	0.19	0.00001
15	9605_II	663601	1083117	30.0	3.0	0.19	0.00001
16	S101	615767	1091810	30.0	3.0	0.19	0.00001
17	217_III_TV	663824	1065372	15.9	1.6	0.17	0.00001
18	21_TC	630260	1084847	35.1	3.5	0.19	0.00001

Table S3. Hydraulic properties of the lower Pleistocene aquifer (qp₁)

No	Well ID	X	Y	Kh, (m/day)	Kv (m/day)	S _y	S _s
1	DH1	665515	1060801	21.7	2.17	0.18	0.00001
2	DH3B	666945	1061532	19.0	1.90	0.18	0.00001
3	DH1B	666005	1060966	13.8	1.38	0.17	0.00001
4	833B-TV	641585	1091853	12.4	1.24	0.17	0.00001
5	901	589225	1066852	16.9	1.69	0.18	0.00001
6	902a-ST	606632	1062716	17.0	1.70	0.18	0.00001
7	CT1	647287	1084002	13.5	1.35	0.17	0.00001

Table S4. Hydraulic properties of the upper Pliocene aquifer (n₂²).

No	ID	X	Y	Kh, (m/day)	Kv (m/day)	S _y	S _s
1	DH3C	666945	1061532	16.2	1.6	0.17	0.00001
2	DH1C	666005	1060966	14.4	1.4	0.17	0.00001
3	RM1C	663112	1059196	22.0	2.2	0.18	0.00001
4	RM2C	670857	1064720	20.1	2.0	0.18	0.00001
5	RM3C	666945	1061532	20.3	2.0	0.18	0.00001
6	833A-TV	641585	1091853	25.0	2.5	0.19	0.00001
7	217-III-NB	663824	1065372	18.0	1.8	0.18	0.00001
8	TV1-TV	633570	1072669	18.0	1.8	0.18	0.00001
9	TV2-TV	638478	1076980	10.3	1.0	0.16	0.00001
10	TV4-TV	658235	1080469	15.4	1.5	0.17	0.00001
11	TV5-TV	643080	1065329	11.0	1.1	0.16	0.00001
12	TV6-TV	667747	1070845	15.0	1.5	0.17	0.00001
13	21-TC	630260	1084847	25.0	2.5	0.19	0.00001

Table S5. Hydraulic properties of the lower Pliocene aquifer (n_2^1).

No	Well ID	X	Y	Kh, (m/day)	Kv (m/day)	Sy	Ss
1	RM3C	666945	1061532	32.0	3.2	0.19	0.00001
2	217-III-NB	663824	1065372	34.4	3.4	0.19	0.00001
3	TV1-TV	633570	1072669	13.5	1.3	0.17	0.00001
4	TV2-TV	638478	1076980	2.1	0.2	0.13	0.00001
5	TV5-TV	643080	1065329	1.1	0.1	0.12	0.00001
6	Q209	602379.7	1098143.5	17.1	1.7	0.18	0.00001
7	21-TC	630260	1084847	12.1	1.2	0.17	0.00001

Table S6. Hydraulic properties of the upper Miocene aquifer (n_1^3).

No	Well ID	X	Y	Kh, (m/day)	Kv (m/day)	Sy	Ss
1	TV5-TV	643080	1065329	25.0	2.5	0.19	0.00001
2	210-IV-NB	617290	1118127	16.4	1.6	0.17	0.00001
3	Q209	602380	1098143	31.3	3.1	0.19	0.00001
4	21-TC	630260	1084847	30.0	3.0	0.19	0.00001

ESM1 Reference:

- Dang Van Tuc, Yangxiao Zhou, Tibor Stigter, Pham Van Tuan, Dao Hong Hai, Dong Uyen Thanh, Bui Tran Vuong (2019) Report on groundwater model in Tra Vinh province, Vietnam. Archived at Library of Division of Water Resources Planning and Investigation for the South of Viet Nam.