SUPPLEMENTARY MATERIAL

to the manuscript

Aquifer potential zones within Akure, Nigeria, using geo-electrical derived parameters and GIS multi-criteria model approach

Olubunmi Oluwatoyin OMOTOLA, Adewale Henry OLABINTAN

Table S2. VES results.

VES No.	Easting	Northing	Depth to Bedrock (m)	Aquifer Resistivity (Ωm)	Aquifer Thickness (m)	Curve Type
1	737149.2	806620.7	22.8	80.4	17.4	KH
2	735733.6	808131.8	10.4	19.4	7.8	H
3	735874.6	808036.8	6.7	159.6	2.5	HK
4	737737.5	805513.6	11.5	149.8	10.6	H
5	735855.9	808106.2	22.5	346.4	15.4	KH
6	735633.6	807888.8	6.5	64.1	5.7	H
7	743798.4	803661.5	7.9	65.5	7.1	H
8	736558.6	807582.8	4.29	488.6	24.9	HKH
9	735633.6	807888.8	16.7	236.7		K
10	736852.8	807645.7	21.6	231.3	21	A
11	744278	802021	25.4	161.9		KH
12	744296.5	802021.1	20.5	101	17.3	HK
13	749312.6	803024.3	23.8	120.1	20.4	KH
14	738236.4	807691	8.1	382.4		KH
15	737325.7	808159.9	17.6	74.7	13.4	H
16	736871.9	808798.1	12.7	622.6	8.9	KH
17	742153	796602.1	7.9	307.3	4.8	KH
18	742101.5	797217.7	9.1	154.2	6.5	KH
19	743867	798131.2	15.4	184.9	14.1	H
20	743097.6	797946.2	8.7	46.7	6.9	H
21	745852	805206.3	10.5	217.9	3.8	HA
22	738146	803283	20.8	201.6	13.2	HA
23	745931.7	799462.4	8.9	80.3	7.2	H
24	753508.8	806114.2	6.4	24.3	5.2	H
25	736660.1	810107.7	4	30.4	3.2	H
26	760336	816353.2	44.1	225.7	35.1	HKH
27	744547	805631.6	4.9	303.7	2.8	HA
28	720094.3	805021.5	22.7	121.2	3.2	HA
29	740435.9	798846.4	13.7	126	1.5	KH
30	720094.3	805021.5	18.9	147.7	17.7	H
31	745288.2	798270	4.1	103.1	3.4	H
32	744725.7	798959.3	13.9	128	12.8	H
33	744320.4	798364.2	31.9	176.1	4.6	AA
34	744320.4	798364.2	5.2	133	4.3	H
35	744820.6	799178	5.8	103.1	4.7	H
36	744820.6	799178	22.2	110.3	16.1	KH
37	746988.1	793822.9	25.8	142.8	23	H
38	738883.8	805141.7	32.3	129.9	22.9	KH

Table S2. Continued from the previous page.

VES No.	Easting	Northing	Depth to Bedrock (m)	Aquifer Resistivity (Ωm)	Aquifer Thickness (m)	Curve Type
39	738933.5	805637	17.5	190	13.6	KH
40	738885.9	805335.3	12.8	126.3	11.5	A
41	742453.2	805598.4	23.4	194.8	17.8	KH
42	742869.6	805781.7	9.6	84.7	6.6	KH
43	742767.2	806014.8	41.9	145.7	20.1	KH
44	741687.3	807193.2	16.1	250.2	12	KH
45	742075.9	806267.4	5.6	165.2	4.7	H
46	741946	806359	8.1	25.1	6.3	H
47	742738.4	808407.9	12.8	61	11.6	H
48	742587.6	800913.8	19.2	485		KH
49	742212.7	800130.3	44.7	147.9	25.9	KH
50	742118.6	799923.9	27.4	137.2		K
51	745110.8	799913.8	6.4	167.1	5.5	H
52	745018.5	799959.5	9.5	265	8.5	H
53	742478.4	799756.6	21.4	253.5	10.1	KH
54	741250.9	799753.8	11.7	250.8	10.9	A
55	742177.1	800526.5	24	190.9	17.3	KH
56	742161.7	800523.4	7.2	209.6		H
57	739522.5	805676.4	38.9	66.4	35.4	KH
58	739453.1	805693.6	58.6	338.9	22.3	KQH
59	739461.6	806400.7	29.9	121.4	28.4	H
60	739491.3	806285.9	17.3	495.7		H
61	739492.8	805982	31.4	227.1	6.3	QH
62	739791.9	805794.5	46.8	100.7	38.5	KH
63	749207.1	804365.5	26.1	315.2	24.3	H
64	749207.1	804365.5	17.3	191.3	14.5	KH
65	749213	804405.5	13.9	39.2	11.2	H
66	747757.3	805252.6	62.4	95.2	2	HA
67	747717.7	805200.1	9.2	173.3	7.8	H
68	747103.4	807185.4	16.8	151.4	15.2	KH
69	739783.8	801092.7	19.3	158.5	17.8	KH
70	739802.3	801077.5	18.1	216.6	15.8	HA
71	759340.5	785761.8	6.1	169	4.4	HA
72	759509.8	785658.2	35.5	326.6	30.6	HA
73	740371.9	796830.2	5.4	174.6	3.5	KH
74	740374.8	796854.8	11.9	193	9.8	H
75	721670.9	774966.3	5.2	205.1	2.2	H
76	721668.7	774966.9	8.5	375.3		HK

Table S2. Continued from the previous page.

VES No.	Easting	Northing	Depth to Bedrock (m)	Aquifer Resistivity (Ωm)	Aquifer Thickness (m)	Curve Type
77	721670.6	774966.6	15.1	179.8		HK
78	736987.8	809582.3	6.3	198.3	5.8	H
79	736970.4	809364	7.7	75	6.9	H
80	737157.3	798431.4	11.2	182.5	9.9	H
81	741883	798721	17.8	518.1		K
82	741789	798716	2.4	147.5	1.6	H
83	743616	804998.6	5.9	408.2		HK
84	743557.8	804995.3	34.1	127	20.3	HKH
85	739399	801419	29.4	387.2	22.4	HK
86	739247.6	801560.3	12.2	97.4	11	H
87	739232.3	801551.1	8.1	75.2	6.7	H
88	741063.3	800157.9	10.3	308		H
89	741069.3	800126	10.7	49.2	8.5	H
90	740560.2	797242.9	16.5	283	10.1	QH
91	740526.1	797310.4	12.3	204.5	11.1	A
92	749311.1	817652.3	5.6	143.8	4.4	A
93	749290.2	817669.1	7.7	359	6.4	A
94	739825.9	798711.4	11.3	338.1	8.4	KH
95	739653.6	796271.8	26.1	148.3	18.6	KH
96	739664.2	796316.8	16.8	270.8	10.2	KH
97	785560	795178.5	8.7	414.6	7.3	A
98	747109.6	807154.7	17	488.2		H
99	745816	805312	15.8	133		HK
100	745807	805313	17.8	158.7		HK
101	742643.2	802498.6	18.2	558.7		H
102	744491.3	804154.4	15.4	149.8	12.2	KH
103	748479.4	802588.7	11.5	57.7	8.2	KH
104	748729.3	801674.2	16.5	125	15.9	A
105	746148	803174.9	6.3	69.8	5.5	H
106	746217.7	803223.7	17.2	136.4	16.1	H
107	746226.9	803229	10.3	138.6	9.6	H
108	749536.4	802942.1	35.7	160.7	21.9	HKH
109	748524.7	802745.6	5.5	58.9	4.1	H
110	748382.1	801786.1	12	119.2	11.2	H
111	735329.5	807964.2	11.4	69	9.6	H
112	748586.2	803211.5	5	21.1	3	H
113	748601.2	803285.6	11.7	184.4	8	KH
114	746226.9	803229	44.3	218.3	40.5	KH

Table S2. Continued from the previous page.

VES No.	Easting	Northing	Depth to Bedrock (m)	Aquifer Resistivity (Ωm)	Aquifer Thickness (m)	Curve Type
115	748556.6	803919.1	7.6	166	6.7	H
116	748378.9	803927.1	6.6	165.6	4.4	H
117	746401.7	802946.6	9.8	344.3	8.9	A
118	746421.2	802975.2	5.4	98.2	4.4	H
119	748530.8	802751.8	7.3	102	6.5	H
120	747595	800239.5	48.5	308.2	44	HK
121	747635.2	800175.1	11.4	251	9	KH
122	744769	804104.8	30.7	167.8		KHK
123	744771.8	804101.1	4.5	80.4	3.7	A
124	743633.7	803956.7	6.4	117.6	5.7	H
125	744746.2	804171.4	22.1	165.2	11.3	HKH
126	743591.2	803789.9	12.3	169	9.8	KH
127	744439.5	804154.5	20.3	320.9	19.4	A
128	746745.7	801884.3	34.4	84.8	3.7	HA
129	746749	801891.7	13.9	103.2		K
130	745766.2	801099.8	18.1	208.4		K
131	744656.1	800633.8	38.5	106.2	22.2	HKH
132	744662.5	800584.7	16.4	61.7		HK
133	744699.9	802351.9	6.1	147		K
134	744705.8	802404.1	10	180.2		K
135	744742.5	802422.8	4.3	229		H
136	744690.4	802407.1	3.9	174.1		K
137	744705.7	802419.5	6	88.2		HK
138	802416.3	802425.8	7.1	120		A
139	744687.3	802416.3	6.4	71		K
140	744523.9	804140.8	17.3	138.9	3.7	KH
141	742309	801805.5	7.7	8.2	6.5	H
142	741378.7	802967.1	21.4	112	19.6	A
143	743491	804218.7	13.9	82.6	13.5	H
144	742987.9	803368.7	6.9	319.8		A
145	742857.5	803364.1	6.9	13.9	5.8	H
146	742837	802570	12.1	132.4		H
147	742742	802625	10.1	401.3		H
148	740851.5	804456.7	5.7	478		H
149	743764.5	804828.2	43	108.8	41.4	H
150	743807.9	804915.4	32.8	100	25.9	HK
151	739889.5	806189.8	34.9	297.7	27.9	KH
152	739905.5	806042.7	42.3	298.4	41.2	H

Table S2. Continued from the previous page.

VES No.	Easting	Northing	Depth to Bedrock (m)	Aquifer Resistivity (Ωm)	Aquifer Thickness (m)	Curve Type
153	752693.7	804856.3	8.2	56	6.5	H
154	746030.3	802213.9	13	238.7		K
155	735506.4	807665.7	14.3	161.4	13.3	H
156	735852.3	807768.2	44.1	165.9	35	KH
157	735747.6	808241.5	42.1	218.3	39.8	HA
158	746039.3	802246.6	31.1	775.5		K
159	744986.2	800403.8	5.8	106.5	4.9	H
160	744982.5	800404.1	9.9	228	9	H
161	744973.4	800398.7	7.7	155.2	5.1	KH
162	744997.9	800405	10.3	271.1	8.1	KH
163	745014.1	800404.8	9.8	142	7.4	H
164	745012.6	800400.6	12.3	213	10.8	H
165	744530.5	802156.8	32.7	266.6		QH
166	746149.2	798922.9	4.9	77.6	3.7	H
167	745130.1	801601.1	4.3	117.2	3.3	H
168	745139.4	801598	5.9	233	4.8	H
169	747959.2	804767.1	9.6	108.8	8.3	H
170	744587.8	801420.2	16	359.9		H
171	745181.3	800604.4	20.5	373.9	14.9	HA
172	745028.6	800406.7	9.6	86.7	6	KH
173	745008	800410.6	58.9	120	37	KHKH
174	745156.4	800680.5	29.9	119.8	4.6	HK
175	747197.5	801181	11.8	92.1	8.9	KH
176	747200.5	801196.4	19.2	109.6	15.3	KH
177	746172.9	802349.9	30.7	228.3		HK
178	745800.3	800743.9	15.7	454.6	14.5	H
179	745781.8	800759.1	31.1	330.1	15.3	HKH
180	744711.9	802416.5	3.4	121		K
181	744724.1	802425.7	5.2	112		K
182	744739.4	802444.2	10.7	133.6		KH
183	744604	800633.5	24.4	311	19.7	HK
184	744603.7	800679.6	21.2	89.5		K
185	744662.5	800584.7	18.5	60.9		HK
186	746158.1	801624.5	4.7	166		H
187	746386.3	801382.9	21.9	225	15.5	QH
188	735874.6	808036.8	12.3	25.2	11.3	H
189	744296.5	802021.1	8.5	11.1	6.6	H
190	746422.1	800965.1	11.6	273.4		Q

Table S2. Continued from the previous page.

VES No.	Easting	Northing	Depth to Bedrock (m)	Aquifer Resistivity (Ωm)	Aquifer Thickness (m)	Curve Type
191	746428.3	800965.1	22.6	260.6		HK
192	748564.3	800935.7	9.6	104	6.8	KH
193	747212.4	801279.4	10.6	121.9		K
194	744931.4	803339.5	11	330.1	7.5	HK
195	745405.7	803482.5	28.5	126.7	20.2	QK
196	744222.9	803256.1	30.9	179.7	11.2	HKH
197	746855.9	821066.8	10.8	155.5		HK
198	746944.3	801131.2	15.2	170		HK
199	745318.3	801844.8	13.9	365.4	3.3	KH
200	745399.8	799792.3	5	71.5	4.6	H
201	745402.9	799792.3	77.1	38.8	2.5	HK
202	745547.1	800154.4	13.7	103	12.6	H
203	745548.3	800174.1	8.5	160.7	7.7	H
204	744748.3	800603.5	18.5	152.7		HK
205	744739.1	800609.6	56.7	116.6	35.7	KHKH
206	744936.2	799264.6	9	111.2	5.5	KH
207	743213.7	802148.1	8.2	433.9		HKH
208	742189.1	802337.8	148.7	72.2	113.1	KHKH
209	742334.4	800997.4	37.5	296.8	8.9	HKH
210	742453.3	801157.8	6.1	149.3		H
211	742440.6	801240.7	19.6	111.3	18.5	H
212	742425.1	801265.2	8.7	56.7	7.7	H
213	743856.2	797767.3	22.8	480.3	21.8	A
214	739421.7	801081.8	133.4	9.8	1.4	HA
215	739663.1	801313.4	5.7	164	1.2	KH
216	739684.6	801301.2	10.5	129.8	7.1	HA
217	738549.9	801997.1	5.8	98.6	5.2	H
218	738461.2	802003.1	3.8	26	2.7	H
219	738105.2	801745.4	7.2	25.8	5.9	KH
220	738105.2	801742.4	7.1	24.9	5.6	H
221	737013.1	802330.3	17.6	477.3	12.3	HKH
222	739772.9	803375.9	8.6	393.5	6.9	AK
223	739741.8	803446.5	23.5	410.8		AK
224	741826.6	806817.5	9.1	208.7	8.6	H
225	741815.3	806806.3	7.8	136	7.4	H
226	741842.6	806808.9	3.9	89.2	3.2	H
227	741623.8	805797.2	5.3	24.6	1.1	HA
228	738508.9	805886.6	14.8	67	10.6	KH

Table S2. Continued from the previous page.

VES No.	Easting	Northing	Depth to Bedrock (m)	Aquifer Resistivity (Ωm)	Aquifer Thickness (m)	Curve Type
229	739719.2	803546.2	16.8	91.4	1.2	KH
230	738252	806985.5	19.7	483.8		KH
231	738249.1	806970.2	43.2	86.3	35.5	KH
232	740468.4	806212	9.4	56.4	8	H
233	748953.8	808989.4	9.7	50.2	8.5	H
234	749097.5	809091.5	8.4	325.9		H
235	742993.6	808050.2	95.7	129.3	87.2	KH
236	743005.6	808093.3	6.5	133.4		HK
237	747455.8	798712.1	25.4	399.3	6.9	AK
238	747466	798749.3	63.1			AK
239	737567.7	806181.1	15	78.3	12.6	KH
240	739570.9	805818	54.9	223	12.3	HKH
241	739503.2	805860.7	43.1	308.8	8.2	QH
242	739678.2	805829.6	50.7	234.9	36.8	KH
243	739663.3	805877.7	30.3	55.5	24.8	KH
244	759408.3	806023	38.1	65.3	32.5	KH
245	739740.7	805609.8	39.5	83.6	35.4	KH
246	746984.9	810095.1	15.9	202.9	15.3	H
247	747092.4	810000.3	12.2	149.7	7.4	HKH
248	747092.4	810000.3	21.1	134.3	6.5	KH
249	739408.4	805786.5	27.6	25	23	KH
250	744835.4	799119.6	4.3	342.5	2.1	A
251	747963	804623.9	2.5	45.9	1.6	H
252	751495	786510.6	23.7	360.3	20.5	HA
253	751716.5	786099.2	12.8	88	10	KH
254	737606.5	805959.2	13.6	229	11.9	HA
255	737615.6	805977.6	43.7	216	40.7	HA
256	747687.8	804917.3	10.4	406.9		KH
257	747641	804948.7	16.9	266	13.5	HA
258	739140.6	804775	5.5	190.9	3.8	H
259	737098.5	806086.2	17.2	433.4		KH
260	737342.5	805644.8	7.2	98.6	5.9	A
261	737442	806558	8.1	112.2		A
262	737886.8	806400.8	5	178.2		A
263	737504.8	806132.4	47.3	198	1.5	HA
264	737800.4	805518.7	12.9	105.4	10.6	A
265	738735	805269.8	16.2	166.7	7.7	HA
266	738213.9	805681.1	5.9	139.7	2.9	A

Table S2. Continued from the previous page.

VES No.	Easting	Northing	Depth to Bedrock (m)	Aquifer Resistivity (Ωm)	Aquifer Thickness (m)	Curve Type
267	738141.5	806034.7	17.4	52.6	12.6	KH
268	737514	806973.2	7.2	178		H
269	737684	806756	3.4	442.5		H
270	738088	806832.1	18.7	47	15.1	KH
271	738088	806832.1	4.5	523.9		A
272	738531.8	806180.4	19.6	54.4	14.1	KH
273	738089.6	805099.7	3.9	130.9		H
274	739837.9	804949.9	5.8	19.2	4.8	H
275	739421.9	805074	13.6	43.5	9.9	KH
276	739135.3	805415.5	25	53.3	16.5	H
277	738717.3	805963.4	7.9	220		A
278	739237.8	805928.2	7.3	237.6		K
279	739681.5	805525.5	13.9	141.2		A

Table S4. The interpreted geoelectric and Dar-Zarrouk parameters results.

VES No.	Easting	Northing	Tr (Ωm^2)	K (m/day)	T (m^2/day)
1	737149.2	806620.7	2868.44	0.9185474	0.0007
2	735733.6	808131.8	302.38	0.0618649	0.4825465
3	735874.6	808036.8	232.4	0.1697613	0.4244033
4	737737.5	805513.6	223.83	0.1581958	1.6768754
5	735855.9	808106.2	3795.68	0.6515496	10.033863
6	735633.6	807888.8	102	0.0853528	0.4865111
7	743798.4	803661.5	233.2	0.0862175	0.6121444
8	736558.6	807582.8	24530.5	1.8138256	45.164257
9	735633.6	807888.8	23560.12	0.2957497	0.0007
10	736852.8	807645.7	81.4	0.2844716	5.9739039
11	744278	802021	1793.89	0.172596	0.0007
12	744296.5	802021.1	198.18	0.1113272	1.9259603
13	749312.6	803024.3	2272.52	0.1277396	2.6058869
14	738236.4	807691	1478.27	0.8443385	0.0007
15	737325.7	808159.9	1634.86	0.092122	1.2344344
16	736871.9	808798.1	11274.66	4.7599549	42.363598
17	742153	796602.1	1585.21	0.4916826	2.3600767
18	742101.5	797217.7	1013.95	0.1632877	1.0613698
19	743867	798131.2	442.52	0.2036807	2.8718976

Table S4. Continued from the previous page.

VES No.	Easting	Northing	Tr (Ωm^2)	K (m/day)	T (m^2/day)
20	743097.6	797946.2	300.22	0.0753025	0.5195873
21	745852	805206.3	1593.5	0.2583082	0.9815712
22	738146	803283	353.44	0.2297044	3.0320987
23	745931.7	799462.4	808.56	0.0959122	0.690568
24	753508.8	806114.2	542.23	0.0640865	0.3332497
25	736660.1	810107.7	71.2	0.0669639	0.2142844
26	760336	816353.2	12130.49	0.2732299	9.5903685
27	744547	805631.6	223.65	0.479102	1.3414855
28	720094.3	805021.5	590.49	1.4699056	4.703698
29	740435.9	798846.4	234	0.0722747	0.108412
30	720094.3	805021.5	364.98	0.1558219	2.758047
31	745288.2	798270	364.98	0.1130232	0.384279
32	744725.7	798959.3	188.09	0.135216	1.7307647
33	744320.4	798364.2	925.96	0.3921928	1.8040867
34	744320.4	798364.2	150.3	0.1401725	0.6027415
35	744820.6	799178	141.4	0.1130232	0.5312092
36	744820.6	799178	1450.58	0.1190369	1.916494
37	746988.1	793822.9	926.24	0.1504203	3.4596672
38	738883.8	805141.7	3337.23	0.1370785	3.1390967
39	738933.5	805637	1921.7	0.2112988	2.8736643
40	738885.9	805335.3	1525.77	0.4423022	0.0007
41	742453.2	805598.4	11267.66	0.218729	3.893376
42	742869.6	805781.7	895.2	0.0989994	0.6533958
43	742767.2	806014.8	5739.82	0.1535941	3.0872416
44	741687.3	807193.2	1808.26	0.32594	3.9112806
45	742075.9	806267.4	210.69	0.176746	0.830706
46	741946	806359	311.22	0.0644567	0.4060771
47	742738.4	808407.9	142.8	0.0834688	0.9682386
48	742587.6	800913.8	659.36	1.7674153	0.0007
49	742212.7	800130.3	67.6	0.1560464	4.041602
50	742118.6	799923.9	11912.22	0.144476	0.0007
51	745110.8	799913.8	681.12	0.1791805	0.9854925
52	745018.5	799959.5	608	0.3625903	3.0820173
53	742478.4	799756.6	84.96	0.3337771	3.3711489
54	741250.9	799753.8	200.32	0.3273512	3.5681276
55	742177.1	800526.5	1529.32	0.2126725	3.6792344
56	742161.7	800523.4	1511.43	0.2433239	0.0007
57	739522.5	805676.4	3454.4	0.086778	3.0719422
58	739453.1	805693.6	889.26	0.617299	13.765767

Table S4. Continued from the previous page.

VES No.	Easting	Northing	Tr (Ωm^2)	K (m/day)	T (m^2/day)
59	739461.6	806400.7	605.55	0.1289408	3.661919
60	739491.3	806285.9	520.17	0.07514	0
61	739492.8	805982	408.36	0.275998	1.7387871
62	739791.9	805794.5	6586.59	0.3721115	0.0007
63	749207.1	804365.5	1253.16	0.5204602	12.647183
64	749207.1	804365.5	1257.1	0.2132859	3.0926454
65	749213	804405.5	2653.83	0.071344	0.799053
66	747757.3	805252.6	476.32	0.1067739	0.2135478
67	747717.7	805200.1	389.9	0.1873603	1.4614103
68	747103.4	807185.4	498.09	0.1600287	2.432437
69	739783.8	801092.7	478.5	0.1684221	2.9979138
70	739802.3	801077.5	401.22	0.2559017	4.0432472
71	759340.5	785761.8	245.6	0.1816485	0.7992534
72	759509.8	785658.2	530.13	0.5649818	17.288442
73	740371.9	796830.2	3989.87	0.1891222	0.6619278
74	740374.8	796854.8	3597.3	0.2159126	2.115943
75	721670.9	774966.3	268.5	0.2355666	0.5182464
76	721668.7	774966.9	8216.32	0.8022606	0.0007
77	721670.6	774966.6	24943.04	0.1963372	0
78	736987.8	809582.3	121.8	0.224311	1.3010038
79	736970.4	809364	80	0.0923212	0.6370161
80	737157.3	798431.4	512.07	0.2001913	1.981894
81	741883	798721	33173.86	2.2430537	0.0007
82	741789	798716	176.49	0.1555976	0.2489562
83	743616	804998.6	3878.62	1.016696	0.0007
84	743557.8	804995.3	8262.8	0.1342459	2.7251925
85	739399	801419	950.18	0.8740289	19.578248
86	739247.6	801560.3	226.44	0.1084787	1.1932653
87	739232.3	801551.1	323.68	0.0924542	0.6194432
88	741063.3	800157.9	571.3	0.494167	0.0007
89	741069.3	800126	241.34	0.0766702	0.6516969
90	740560.2	797242.9	2498.72	0.412763	4.1689058
91	740526.1	797310.4	81.6	0.2345511	2.6035172
92	749311.1	817652.3	107.16	0.1515072	0.6666319
93	749290.2	817669.1	154.7	0.7134223	4.5659024
94	739825.9	798711.4	322.52	0.6137536	5.1555298
95	739653.6	796271.8	3165.62	0.1564965	2.9108344
96	739664.2	796316.8	2914.28	0.3780526	3.856137
97	785560	795178.5	53.1	1.0646416	7.7718835

Table S4. Continued from the previous page.

VES No.	Easting	Northing	Tr (Ωm^2)	K (m/day)	T (m^2/day)
98	747109.6	807154.7	1191.34	1.8086093	0.0007
99	745816	805312	35456.77	0.1401725	0.0007
100	745807	805313	25505.14	0.1686648	0.0007
101	742643.2	802498.6	40.2	3.0046413	0.0007
102	744491.3	804154.4	961.7	0.1581958	1.9299887
103	748479.4	802588.7	395.81	0.081509	0.6683738
104	748729.3	801674.2	36.6	0.1323266	2.1039937
105	746148	803174.9	167.36	0.0889286	0.4891071
106	746217.7	803223.7	377	0.1436462	2.3127041
107	746226.9	803229	262.22	0.1459397	1.401021
108	749536.4	802942.1	6344.71	0.1711112	3.7473346
109	748524.7	802745.6	811.44	0.0822163	0.3370868
110	748382.1	801786.1	131.52	0.1269145	1.4214422
111	735329.5	807964.2	541.26	0.0884178	0.848811
112	748586.2	803211.5	814.91	0.0626268	0.1878804
113	748601.2	803285.6	3206.01	0.2029487	1.62359
114	746226.9	803229	7524.85	0.2590532	10.491655
115	748556.6	803919.1	276.3	0.177767	1.1910386
116	748378.9	803927.1	361.46	0.1772557	0.7799252
117	746401.7	802946.6	94.23	0.6417722	5.7117729
118	746421.2	802975.2	133.6	0.1091053	0.4800633
119	748530.8	802751.8	430.4	0.1121316	0.7288556
120	747595	800239.5	342.36	0.4948791	21.77468
121	747635.2	800175.1	792.7	0.3278229	2.9504059
122	744769	804104.8	42624.51	0.1800858	0.0007
123	744771.8	804101.1	49.76	0.0959813	0.3551308
124	743633.7	803956.7	161.56	0.1254608	0.7151266
125	744746.2	804171.4	7269.92	0.176746	1.9972294
126	743591.2	803789.9	546	0.1816485	1.7801552
127	744439.5	804154.5	209.25	0.5422643	10.519927
128	746745.7	801884.3	136.56	0.0990707	0.3665615
129	746749	801891.7	9688.88	0.1131046	0.0007
130	745766.2	801099.8	14121.64	0.2412306	0.00007
131	744656.1	800633.8	6110.1	0.1155743	2.5657491
132	744662.5	800584.7	6377.72	0.0838906	0.0007
133	744699.9	802351.9	1975.52	0.1550385	0.00007
134	744705.8	802404.1	1898.14	0.1969034	0.0007
135	744742.5	802422.8	1619.46	0.2797996	0.0007
136	744690.4	802407.1	2889.71	0.1884426	0.0007

Table S4. Continued from the previous page.

VES No.	Easting	Northing	Tr (Ωm^2)	K (m/day)	T (m^2/day)
137	744705.7	802419.5	1473.48	0.1015259	0.0007
138	802416.3	802425.8	750.5	0.1276476	0.0007
139	744687.3	802416.3	2229.44	0.0897002	0.0007
140	744523.9	804140.8	550.46	0.1453106	0.5376492
141	742309	801805.5	113.76	0.057072	0.3709679
142	741378.7	802967.1	161.16	0.1205029	2.361856
143	743491	804218.7	1540.1	1.764872	0.0007
144	742987.9	803368.7	149.97	0.5379865	0.0007
145	742857.5	803364.1	52.92	0.059463	0.3448851
146	742837	802570	230.22	0.1395682	0.0007
147	742742	802625	144.53	0.9674207	0.0007
148	740851.5	804456.7	145.5	1.6805451	0.0007
149	743764.5	804828.2	426.4	0.1177582	4.87519
150	743807.9	804915.4	1001.8	0.1105285	2.8626883
151	739889.5	806189.8	5326.54	0.4588455	12.801788
152	739905.5	806042.7	1230.96	0.4611639	18.999952
153	752693.7	804856.3	44.2	0.0805174	0.5233632
154	746030.3	802213.9	55044.76	0.3000393	0.0007
155	735506.4	807665.7	218.6	0.1719757	2.2872774
156	735852.3	807768.2	157.36	0.177639	6.2173654
157	735747.6	808241.5	76.4	0.2590532	10.310318
158	746039.3	802246.6	45896.11	14.312284	0.0007
159	744986.2	800403.8	274.4	0.1158242	0.5675385
160	744982.5	800404.1	277.2	0.2777922	2.5001301
161	744973.4	800398.7	1048.3	0.1644676	0.8387847
162	744997.9	800405	727.4	0.3788701	3.068848
163	745014.1	800404.8	955.2	0.1495564	1.1067172
164	745012.6	800400.6	765	0.249354	2.6930229
165	744530.5	802156.8	2063.35	0.3667915	0.0007
166	746149.2	798922.9	496.68	0.0940657	0.3480431
167	745130.1	801601.1	949.96	0.1251	0.41283
168	745139.4	801598	1977.8	0.2879749	1.3822797
169	747959.2	804767.1	347.88	0.1177582	0.9773932
170	744587.8	801420.2	469.76	0.7180602	0.0007
171	745181.3	800604.4	1316.82	0.7942144	11.833795
172	745028.6	800406.7	653.12	0.1004353	0.6026116
173	745008	800410.6	12384.7	0.1276476	4.7229618
174	745156.4	800680.5	557.01	0.1274639	0.5863341
175	747197.5	801181	1238.23	0.1044171	0.9293122

Table S4. Continued from the previous page.

VES No.	Easting	Northing	Tr (Ωm^2)	K (m/day)	T (m^2/day)
176	747200.5	801196.4	1142.3	0.1184385	1.8121084
177	746172.9	802349.9	41879.69	0.2783929	0.0007
178	745800.3	800743.9	1865.4	1.4199735	20.589615
179	745781.8	800759.1	11333.24	0.5794002	8.8648234
180	744711.9	802416.5	972.5	0.12857	0.0007
181	744724.1	802425.7	708	0.1205029	0.0007
182	744739.4	802444.2	671.42	0.0692189	0
183	744604	800633.5	760.7	0.5049571	9.9476548
184	744603.7	800679.6	6761.08	0.1024806	0.0007
185	744662.5	800584.7	6496.25	0.0834088	0.0007
186	746158.1	801624.5	859.8	0.0616426	0
187	746386.3	801382.9	4823.4	0.2718563	4.213772
188	735874.6	808036.8	338.1	0.0645031	0.7288852
189	744296.5	802021.1	144	0.0582762	0.3846228
190	746422.1	800965.1	12903.06	0.3851965	0.0007
191	746428.3	800965.1	35032.29	0.3512835	0.0007
192	748564.3	800935.7	1790.01	0.113758	0.7735545
193	747212.4	801279.4	5037.07	0.1294058	0.0007
194	744931.4	803339.5	423.4	0.5794002	4.3455017
195	745405.7	803482.5	2842.14	0.1339563	2.7059168
196	744222.9	803256.1	297.36	0.1961959	2.1973937
197	746855.9	821066.8	14486.81	0.1648232	0.0007
198	746944.3	801131.2	25544.02	0.1829611	0.0007
199	745318.3	801844.8	1456.46	0.070324	0.2320693
200	745399.8	799792.3	784.04	0.0900237	0.4141092
201	745402.9	799792.3	126.16	0.0711388	0.1778471
202	745547.1	800154.4	621.5	0.1129419	1.4230679
203	745548.3	800174.1	154.84	0.1711112	1.317556
204	744748.3	800603.5	7522.24	0.1615336	0.0007
205	744739.1	800609.6	12309.54	0.1245607	4.4468184
206	744936.2	799264.6	1138.24	0.1198108	0.6589592
207	743213.7	802148.1	534.86	1.2233564	0.0007
208	742189.1	802337.8	222.45	0.0904786	10.233131
209	742334.4	800997.4	1208.94	0.4558818	4.0573476
210	742453.3	801157.8	550.17	0.1576273	0.0007
211	742440.6	801240.7	157.85	0.1198971	2.2180954
212	742425.1	801265.2	380.82	0.0809242	0.6231167
213	743856.2	797767.3	123	1.7086066	37.247624
214	739421.7	801081.8	58.24	0.0577333	0.0808266

Table S4. Continued from the previous page.

VES No.	Easting	Northing	Tr (Ωm^2)	K (m/day)	T (m^2/day)
215	739663.1	801313.4	245.6	0.0747085	0.0896502
216	739684.6	801301.2	318.16	0.1369798	0.9725566
217	738549.9	801997.1	101.82	0.10942	0.5689839
218	738461.2	802003.1	347.49	0.0648757	0.1751644
219	738105.2	801745.4	518.11	0.0647824	0.382216
220	738105.2	801742.4	499.8	0.0643639	0.360438
221	737013.1	802330.3	9547.25	1.6720964	20.566786
222	739772.9	803375.9	177.12	0.9145878	6.3106558
223	739741.8	803446.5	14118.58	1.0359078	0.0007
224	741826.6	806817.5	202.9	0.2417523	2.0790694
225	741815.3	806806.3	205.96	0.1432331	1.059925
226	741842.6	806808.9	90.02	0.1022595	0.3272303
227	741623.8	805797.2	58.88	0.0642251	0.0706476
228	738508.9	805886.6	516.6	0.0871537	0.9238294
229	739719.2	803546.2	144.24	0.0651097	0.0781316
230	738252	806985.5	2626.5	1.7522106	0.0007
231	738249.1	806970.2	43.2	0.1727203	6.1315703
232	740468.4	806212	962.08	0.0807496	0.6459971
233	748953.8	808989.4	800.58	0.0772242	0.6564061
234	749097.5	809091.5	4508.32	0.5621414	0.0007
235	742993.6	808050.2	1917.36	0.1364876	11.901715
236	743005.6	808093.3	1888.08	0.1405767	0.0007
237	747455.8	798712.1	166.2	0.9535897	6.5797687
238	747466	798749.3		0.0538	0.0007
239	737567.7	806181.1	359.5	0.094541	1.1912164
240	739570.9	805818	299.4	0.2679696	3.2960258
241	739503.2	805860.7	2668.92	0.0724309	0.5939337
242	739678.2	805829.6	41.84	0.2919415	10.743447
243	739663.3	805877.7	2474.06	0.0802281	1.9896562
244	759408.3	806023	2360.46	0.0860935	2.7980375
245	739740.7	805609.8	2443.95	0.0982184	3.476931
246	746984.9	810095.1	287.52	0.2318646	3.547528
247	747092.4	810000.3	2532.66	0.1580819	1.1698063
248	747092.4	810000.3	1015.96	0.0591214	0.3842893
249	739408.4	805786.5	3444.1	0.0644103	1.4814368
250	744835.4	799119.6	310.64	0.6335085	1.3303679
251	747963	804623.9	75.06	0.07487	0.119792
252	751495	786510.6	417.19	0.7201312	14.76269
253	751716.5	786099.2	315.6	0.1013798	1.0137976

Table S4. Continued from the previous page.

VES No.	Easting	Northing	Tr (Ωm^2)	K (m/day)	T (m^2/day)
254	737606.5	805959.2	287.2	0.2797996	3.3296147
255	737615.6	805977.6	158.7	0.2547986	10.370303
256	747687.8	804917.3	563.53	1.0072242	0.0007
257	747641	804948.7	294.7	0.3652103	4.9303396
258	739140.6	804775	249.05	0.2126725	0.8081555
259	737098.5	806086.2	1332.93	1.2189602	0.0007
260	737342.5	805644.8	39.13	0.10942	0.6455779
261	737442	806558	500.35	0.1206765	0.0007
262	737886.8	806400.8	130.6	0.1940883	0.0007
263	737504.8	806132.4	736.7	1.1076473	1.6614709
264	737800.4	805518.7	131.1	0.1149105	1.2180512
265	738735	805269.8	580.74	0.1786652	1.3757218
266	738213.9	805681.1	108.9	0.1471001	0.4265904
267	738141.5	806034.7	1565.61	1.4333268	18.059918
268	737514	806973.2	310.97	0.1938091	0.0007
269	737684	806756	24.89	1.301501	0.0007
270	738088	806832.1	2312.69	0.0754653	1.1395266
271	738088	806832.1	109.26	2.3387069	0.0007
272	738531.8	806180.4	1691.76	0.3364311	0.0007
273	738089.6	805099.7	68.25	0.138069	0.0007
274	739837.9	804949.9	21.1	0.0617759	0.2965244
275	739421.9	805074	707.89	0.0735874	0.728515
276	739135.3	805415.5	1915.6	0.438813	0.0007
277	738717.3	805963.4	679.57	0.2622435	0.0007
278	739237.8	805928.2	2829.72	0.2976724	0.0007
279	739681.5	805525.5	728.88	0.1486974	0.0007