

JAPAN INTERNATIONAL COOPERATION AGENCY

THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA  
MINISTRY OF DEVELOPMENT

**THE STUDY  
ON  
INTEGRATED WATER RESOURCES DEVELOPMENT AND  
MANAGEMENT MASTER PLAN  
IN  
THE FORMER YUGOSLAV REPUBLIC MACEDONIA**

**WELL INVENTORY**

**MAY 1999**

**NIPPON KOEI CO., LTD  
KRI INTERNATIONAL CORPORATION**

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Table 1(1/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M')	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.	
1	Borehole			Tetovo	Tetovo city-center	Tetovo	Tetovo	Upper Vardar, Kachanik	4650100	7498300	465	Compacted proluvial mostly large grained gravel and sand	proluvial				150.0										2/44k	
2	Piezometer	Piezometer		Sirikjino	Sirikjino village	Tetovo	Jegunovce	Upper Vardar, Kachanik	4652065	7508420	431.77	Karstic gray-white marble					123.0	50.8	-105.00					+			2/37	
3	Piezometer	Piezometer	Marble below 31.4	Sirikjino	Sirikjino village	Tetovo	Jegunovce	Upper Vardar, Kachanik	4652264	7508090	400.76	Compacted alluvial-pliocenic sand and gravel	Alluvial-Pliocenic	1.00E-05	4.4		81.0	50.8	-4.00					+	9	7.6	2/38	
4	Piezometer	Piezometer		Sirikjino	Sirikjino village	Tetovo	Jegunovce	Upper Vardar, Kachanik	4652530	7507600	400.2	Compacted alluvial sand with less gravel	Alluvial		2.2		40.0	63.5	-2.50					+	8	7.8	2/39	
5	Artesian borehole	Piezometer	The piezometer is until 90m. Arterian water on 70m.	Zhilche	Zhilche village	Tetovo	Jegunovce	Upper Vardar, Kachanik	4653990	7505406	415.7	Compacted pliocenic gravel and sand with clay	Pliocenic				308.0	50.8	+ 9.00	1.2				+	12	7.8	2/40	
6	Borehole		Shale below 40m	Slatino	Slatino village	Tetovo	Tearce	Upper Vardar, Kachanik	4658800	7504150	550	Compacted Slope material					40.3										2/40k	
7	Piezometer	Piezometer (Tearce railway)		Tearce	Tearce town	Tetovo	Tearce	Upper Vardar, Kachanik	4657330	7507470	432.7	Compacted alluvial-pliocenic sand and gravel	Alluvial-Pliocenic		11.9		31.0	63.5	-1.50					+	13	6.5	2/47	
8	Piezometer	Piezometer		Preljubishte - Janchishte	Preljubishte, Janchishte	Tetovo	Jegunovce	Upper Vardar, Kachanik	4656251	7509440	404.5	Compacted alluvial-pliocenic lightly clayey sand and gravel	Alluvial-Pliocenic		9.9		35.0	63.5	-4.15									2/46
9	Artesian borehole		Arterian water on 20.0m.	Janchishte - Kopanica	Janchishte, Kopanica	Tetovo	JegunOvche Saraj	Upper Vardar, Kachanik	4655801	7510396	394.72	Compacted pliocenic sand	Pliocenic				20.0	63.5	+ 0.30	0.05							2/45	
10	Artesian borehole		Arterian water on 19.0m.	Kopanica	Kopanica village	Tetovo	Saraj	Upper Vardar, Kachanik	4655430	7511400	388.4	Compacted pliocenic, fine-grained sand & partly clayey	Pliocenic				20.0	63.5	+ 0.30	0.05							2/44	
11	Piezometer	Piezometer		Kopanica	Kopanica village	Tetovo	Saraj	Upper Vardar, Kachanik	4655053	7512152	412.52	Karstic marble					113.0	63.5	-98.00								2/42	
12	Piezometer	Piezometer		Kopanica	Kopanica village	Tetovo	Saraj	Upper Vardar, Kachanik	4655150	7512101	485.09	Karstic marble					191.0	63.5	-180.00								2/41	
13	Artesian borehole		I artesian horizon 24.0, II artesian horizon 30.8, III	Kopanica	Kopanica village	Tetovo	Saraj	Upper Vardar, Kachanik	4655336	7511420	382.22	Compacted Pliocenic, fine-grained sand and gravel	Pliocenic	5.40E-03	9.6		38.0	63.5	+ 5.20	10.00							2/43	
14	Artesian borehole		Three artesian horizons	Janchishte	Janchishte village	Tetovo	Jegunovce	Upper Vardar, Kachanik	4656796	7510532	391.6	Compacted Pliocenic, fine-grained sand and gravel	Pliocenic		8.3		43.0	63.5	+ 0.80	0.50					13		2/48	
15	Artesian borehole		4 artesian horizons; first=11.7 m; second= 16.4 m;	Janchishte	Janchishte village	Tetovo	Jegunovce	Upper Vardar, Kachanik	4657065	7511027	385.7	Compacted Pliocenic, fine-grained sand and gravel	Pliocenic	1.80E-05	20.0		36.0	63.5	+ 3.80	2.70							2/49	
16	Piezometer	Piezometer		Raotince	Raotince village	Tetovo	Jegunovce	Upper Vardar, Kachanik	4657281	7511300	384.96	Compacted alluvial sand and gravel	Alluvial	2.40E-02			20.0		-1.20						13	6.5	2/50	
17	Artesian borehole		First= 52.6, second= 56.0 (minimal water Q), third=68.0 m, Observing of the piezometer and NPV 67.3-73.96 m	Raotince	Raotince village	Tetovo	Jegunovce	Upper Vardar, Kachanik	4657589	7512060	384.96	Compacted pliocene	Pliocenic		26.2		138.0		+ 6.00	1.2				+	12	7.3	2/3	
18	Piezometer	Piezometer		Raotince	Raotince village	Tetovo	Jegunovce	Upper Vardar, Kachanik	4658306	7512123	461.16	Karstic marble					107.6		-72.89								2/22	
19	Group of boreholes	Industry (Raotince quarry)		Raotince	Raotince quarry	Tetovo	Jegunovce	Upper Vardar, Kachanik	4658750	7512000	450	Karstic marble		4.00E-03			100.0		-99.10								2/36k	
20	Artesian borehole			Jegunovce	JegunOvchevilage	Tetovo	Jegunovce	Upper Vardar, Kachanik	4658750	7511100	380	Compacted pliocene	Pliocenic								0.15					14	6	2/111
21	Artesian borehole	Industry ("Jugohrom")	Pliocene below 8 m; I= 55.5; II=57.0; III= 65.0; IV= 7.8; V=	"Jugohrom" factory	JegunOvchevilage	Tetovo	Jegunovce	Upper Vardar, Kachanik	4658658	7510231	396.48	Compacted pliocenic fine-grained gravel and sand	Pliocenic	1.00E-06	23.0		121.0		+ 10.20	3.00				+	13	6.8	2/2	
22	Artesian borehole			Jegunovce	JegunOvchevilage	Tetovo	Jegunovce	Upper Vardar, Kachanik	4658570	7508190	428	Compacted pliocenic fine-grained gravel and sand	Pliocenic	1.00E-05					+ 0.40	1.0							2/89	
23	Piezometer	Piezometer	Average annual NPV =12.67; Pliocene below 40.3 m;	PrshOvche	PrshOvchevilage	Tetovo	Tearce	Upper Vardar, Kachanik	4658750	7508122	449.85	Compacted proluvial gravel and sand	proluvial	1.60E-04	12.4		210.0		-12.50					++	13	7	2/1	
24	Dug well			Vratnica	Vratnica village	Tetovo	Vratnica	Upper Vardar, Kachanik	4666400	7510000	720	Compacted proluvial gravel and sand	proluvial				8.21		-5.26	0.3							1/1	

Table 1(2/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.	
25	Group of boreholes	Industry (Radusha mines)	Marble below 247.2 m	Radusha mine	Radusha village	Skopje	Kondovo	Upper Vardar, Kachanik	4663800	7514100	600	Fractured serpentinite and peridotite					302.0										2/24k	
26	Group of boreholes	Industry (Radusha mines)	Marble below 69.2 m	Radusha mine	Radusha village	Skopje	Kondovo	Upper Vardar, Kachanik	4662800	7516600	600	Fractured serpentinite and peridotite					82.0										2/20	
27	Piezometer	Piezometer		Radusha	Radusha village	Skopje	Kondovo	Upper Vardar, Kachanik	4660212	7517922	323.08	Compacted alluvial gravel and sand	Alluvial		20.3		30.0	63.5	-17.20								2/53	
28	Dug well			Radusha	Radusha village	Skopje	Kondovo	Upper Vardar, Kachanik	4659800	7517650	367	Karstic marble					48.0		-45.00						12	6	2/29	
29	Piezometer	Piezometer	Proluvium down to 27.9 m	Radusha	Radusha village	Skopje	Kondovo	Upper Vardar, Kachanik	4659435	7517521	378.52	Karstic marble					89.0	63.5									2/52	
30	Borehole	W/S for railway atation	Marble below 211.2 m	Radusha railway station	Radusha village	Skopje	Kondovo	Upper Vardar, Kachanik	4659300	7520500	400	Fractured serpentinite and peridotite					214.0										2/6k	
31	Borehole		Marble below 111.2 m	Large Spring Rashche	Rashche village	Skopje	Kondovo	Upper Vardar, Kachanik	4655700	7521000	420	Fractured marl					115.0										2/4k	
33	Borehole			Svilare	Svilare village	Skopje	Kondovo	Upper Vardar, Kachanik	4655411	7523016	392						239.4										153/06	
34	Borehole			Novo Selo	Novo Selo village	Skopje	Gjorche Petrov	Upper Vardar, Kachanik	4654300	7527350	305						300.0										153/7	
35	Drilled well			General Jankovich	General Jankovich	Skopje	Chucer Sandevo	Upper Vardar, Kachanik	4666850	7525000	353.9	Compacted terrace sand and gravel			3.5		6.0	300	-0.40	2.0		5.0	18.6				98/81	
36	Artesian borehole			JegunOvche	JegunOvchevilage	Tetovo	Jegunovce	Upper Vardar, Kachanik	4658490	7511050	387	Compacted pliocenic gravel and sand	Pliocenic							0.625						13.5	6	2/113
37	Artesian borehole		Mineral water	Kuchkovo-Volkovo	Kuchkovo village-Volkovo	Skopje	Gjorche Petrov	Upper Vardar, Kumanovo	4656320	7528250	326	Fractured marl					100.0	50.8		10.0							1/42	
38	Dug well			Volkovo	Volkovo village	Skopje	Gjorche Petrov	Upper Vardar, Kumanovo	4655900	7529050	285	Compacted terrace sand		6.00E-04			13.6	1800	-13.31	0.5		0.2				12	177	
39	Piezometer	Piezometer	Neogene below 9.3 m	Novo Selo	Novo Selo settlement	Skopje	Gjorche Petrov	Upper Vardar, Kumanovo	4655144	7529240	279.56	Compacted gravel and sand		1.00E-06	3.0		18.0	50.8	-6.23								161/62	
40	Piezometer	Piezometer	Neogene below 8 m	Novo Selo	Novo Selo settlement	Skopje	Gjorche Petrov	Upper Vardar, Kumanovo	4654250	7529791	270.55	Compacted gravel and sand		1.00E-03	7.0		22.0	76.2	-4.00								161/61	
41	Piezometer	Piezometer	Neogene below 31.0 m	Novo Selo	Novo Selo settlement	Skopje	Gjorche Petrov	Upper Vardar, Kumanovo	4653723	7530059	265.04	Compacted gravel and sand		8.00E-06	7.20E-04	15.0	42.0	50.8	-4.04								161/53	
42	Piezometer	Piezometer	Neogene below 5.8 m	Saraj	Saraj village	Skopje	Saraj	Upper Vardar, Kumanovo	4651715	7528570	268.4	Compacted gravel and sand		5.00E-05	3.8		20.0	76.2	-3.80								161/19	
43	Piezometer	Piezometer	Neogene below 3.8 m	Saraj	Saraj village	Skopje	Saraj	Upper Vardar, Kumanovo	4650838	7528732	265.16	Compacted gravel and sand		6.00E-04	3.8		19.8	76.2	-2.06								161/15	
44	Piezometer	Piezometer	Neogene below 6 m	Gjorche Petrov	Gjorche Petrov settlement	Skopje	Gjorche Petrov	Upper Vardar, Kumanovo	4651363	7529509	265.86	Compacted gravel and sand		8.00E-05	6.0		20.9	76.2	-3.12								161/24	
45	Piezometer	Piezometer	Neogene below 6 m	Gjorche Petrov	Gjorche Petrov settlement	Skopje	Gjorche Petrov	Upper Vardar, Kumanovo	4651284	7530832	263.39	Compacted gravel and sand		7.50E-04	6.0		16.2	76.2	-5.17								161/30	
46	Piezometer	Piezometer	Neogene below 7 m	Dolno Nerezi	Dolno Nerezi village	Skopje	Karposh	Upper Vardar, Kumanovo	4651468	7531723	258.73	Compacted gravel and sand		4.00E-04	7.2		147.5		-6.53								161/38	
47	Group of drilled wells	Industry (Building Contractors	T-1:Q=225, S=8.38; T-2:Q=205, S=10.99; T-3:Q=308, S=10.12;	Nerezi	Nerezi village	Skopje	Karposh	Upper Vardar, Kumanovo	4652300	7532200	254	Compacted alluvial gravel and sand	Alluvial	3.00E-03	0.0 to 69.7		27.0 to 69.7	600			921	10.0		+	+		112	
48	Drilled wells	W/S for building contractor "Ilin		Skopje	Gjorche Petrov settlement	Skopje	Gjorche Petrov	Upper Vardar, Kumanovo	4642900	7536700	350	Compacted alluvial gravel and sand	Alluvial	1.00E-03	21.0		25.0	300	-4.50	28.0		15.0	5.0			13.2	110	
49	Drilled wells	W/S for company "Lafo ma"	2 wells in distance of 100m. Only one is using	Gjorche Petrov	Gjorche Petrov settlement	Skopje	Gjorche Petrov	Upper Vardar, Kumanovo	4652530	7530920	255	Compacted alluvial gravel and sand	Alluvial				20.0	76.2	-8.60	43	80	5.0					131	

Table 1(3/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)		Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)		Yield (l/sec)	Drawdown (s)		Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.			
50	Drilled wells	W/S for company "Slovenija"		Novo Selo	Novo Selo settlement	Skopje	Gjorche Petrov	Upper Vardar, Kumanovo	4650800	7530350	262.5	Compacted alluvial gravel and sand	Alluvial			5.5		11.0	250		-5.99	10.0			0.3	120.0						96	
51	Piezometer	Piezometer	Neogene below 5.8 m	Bardovci	Bardovci village	Skopje	Karposh	Upper Vardar, Kumanovo	4653488	7531841	264.31	Compacted terrace sand and gravel		8.00E-03		5.8		37.7			-5.71										161/44		
52	Piezometer	Piezometer	Neogene below 6.5 m	Novo Selo	Novo Selo settlement	Skopje	Gjorche Petrov	Upper Vardar, Kumanovo	4655053	7530540	272.82	Compacted terrace sand and gravel		3.90E-03				21.0	50.8		-2.12										161/65		
53	Piezometer	Piezometer		Novo Selo	Novo Selo settlement	Skopje	Gjorche Petrov	Upper Vardar, Kumanovo	4654847	7531209	270.93	Compacted terrace sand and gravel		1.00E-03				18.0			-0.53										161/67		
54	Piezometer	Piezometer	Neogene below 19.8 m	Bardovci	Bardovci village	Skopje	Karposh	Upper Vardar, Kumanovo	4654744	7532209	280.03	Compacted gravel and silt sand						30.0	76.2												161/69		
55	Piezometer	Piezometer	Pliocene below 16.5 m; Miocene sandstone below 50.2 m	Skopje	Karposh settlement	Skopje	Karposh	Upper Vardar, Kumanovo	4654634	7533124	280.21	Compacted gravel and silt sand		2.80E-10	1.10E-03			98.0	50.8		-5.31											161/71	
56	Piezometer	Piezometer	Pliocene below 6.6 m; Neogene below 12.5 m	Zlokukjani	Zlokukani village	Skopje	Karposh	Upper Vardar, Kumanovo	4653200	7533014	264.26	Compacted gravel and silt sand		3.00E-06		3.9		3.0 150.0	76.2		-2.62											161/77	
57	Piezometer	Piezometer	Pliocene below 11.5 m	Skopje	Karposh settlement	Skopje	Karposh	Upper Vardar, Kumanovo	4652554	7535100	248.7	Compacted proluvial gravel	Proluvial	1.00E-03		3.6		21.0	76.2		-2.45											161/106	
58	Drilled well	W/S for Skopje zoo garden		Skopje zoo garden	Skopje - center	Skopje	Karposh	Upper Vardar, Kumanovo	4651700	7534020	252.36	Compacted proluvial gravel	Proluvial			9.3		10.8	300		-3.50	10.0										131/V-2	
59	Piezometer	Piezometer	Neogene below 7.3 m	Skopje	Karposh settlement	Skopje	Karposh	Upper Vardar, Kumanovo	4651050	7534020	252.36	Compacted terrace gravel		1.00E-03		6.0		19.0	76.2		-4.46											161/87	
60	Piezometer	Piezometer	Neogene below 17.4 m	Skopje	Skopje - center	Skopje	Center	Upper Vardar, Kumanovo	4651100	7535439	247.25	Compacted terrace sandy gravel		1.00E-03		17.4		25.0			-3.75											161/99	
61	Piezometer	Piezometer	Pliocene sands and conglomerate below 9.8 m	Skopje	Skopje - center	Skopje	Center	Upper Vardar, Kumanovo	4657376	7537050	255.92	Compacted proluvial sandy gravel	Proluvial	1.70E-06	1.40E-04	6.0		34.58	76.2		-5.79												161/156
62	Piezometer	Piezometer	Pliocene sandstone below 25 m	Skopje	Chair settlement	Skopje	Chair	Upper Vardar, Kumanovo	4652495	7537038	270.72	Compacted proluvial sandy gravel	Proluvial	1.00E-04				30.6	50.8		-7.82											161/138	
63	Piezometer	Piezometer	Pliocene sand and sandstone below 8.5 m	J.I. From Vizbegovo	Vizbegovo village	Skopje	Chair	Upper Vardar, Kumanovo	4652436	7536198	267.8	Compacted proluvial sandy gravel	Proluvial	2.00E-05		2.0		20.4	76.2		-7.60											161/142	
64	Piezometer	Piezometer	Pliocene below 7.0 m	J.I. From Vizbegovo	Vizbegovo village	Skopje	Chair	Upper Vardar, Kumanovo	4654066	7535728	272.82	Compacted proluvial gravel sand	Proluvial	1.30E-05		2.0		40.5	76.2		-1.62											161/114	
65	Borehole	No water	Neogene below 10 m	Vizbegovo	Vizbegovo village	Skopje	Shuto Orizari	Upper Vardar, Kumanovo	4654400	7534182	282.15	marly clay and marl							31.0													161/73	
66	Borehole			Gomo Orizari	G. Orizari village	Skopje	Shuto Orizari	Upper Vardar, Kumanovo	4657185	7534251	331	Fractured compacted pliocenic sand	Pliocenic						301.6													153/410	
67	Borehole			Gomo Orizari	G. Orizari village	Skopje	Shuto Orizari	Upper Vardar, Kumanovo	4658520	7533100	375	Compacted quaternary sandy silt	Quaternary			4.0			9.0		-3.40											156/34	
68	Piezometer	Piezometer	Pliocene below 34 m	Butel-Skopje	Butel settlement	Skopje	Chair	Upper Vardar, Kumanovo	4654202	7537211	285.53	Compacted proluvial gravel	Proluvial	2.00E-04		28.0	3.0	65.50	50.8		-9.93											161/119	
69	Piezometer	Piezometer(Steel & Iron-Skopje)	Pliocene clay marl and sandstone below 52.3 m	Steel & Iron-Skopje	Gazi Baba settlement	Skopje	Gazi Baba	Upper Vardar, Kumanovo	4653792	7538885	278.9	Compacted proluvial gravel and sand	Proluvial			16.4	2	71.65	76.2		-12.20											161/125	
70	Piezometer	Piezometer(Steel & Iron-Skopje)	Pliocene below 57 m	Steel & Iron-Skopje	Gazi Baba settlement	Skopje	Gazi Baba	Upper Vardar, Kumanovo	4651954	7539285	257.06	Compacted proluvial sandy gravel	Proluvial	2.70E-05		26.3	3	80.0	76.2		-16.26											161/149	
71	Piezometer	Piezometer	Pliocene below 160 m	Chento	Chento settlement	Skopje	Gazi Baba	Upper Vardar, Kumanovo	4651599	7542338	236.4	Compacted clayey sand				1.5		46.0	76.2		-1.40											161/288	
72	Group of drilled wells	W/S for Skopsko Pole	B= 2; Q= 5.5; S= 3.4	Chento	Chento settlement	Skopje	Gazi Baba	Upper Vardar, Kumanovo	4651200	7543400	237	Compacted pliocenic gravel and sand	Pliocenic	1.30E-04		4.5		26.0	300		-0.60	5.0			1.8	74.0		+	7.4		104/V-1		
73	Borehole			Creshevo	Chreshevo village	Skopje	Gazi Baba	Upper Vardar, Kumanovo	4655850	7542720	300	Compacted quaternary sandy clay	Quaternary			4.5			9.0		-5.40											156/32	

Table 1(4/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.	
74	Artesian borehole	W/S for Belimbegovo Motel	Artesian horizon from 120-127 m	Belimbegovo Motel	Belimbegovo village	Skopje	Ilinden	Upper Vardar, Kumanovo	4652150	7547000	230	Compacted pliocenic clayed gravel with sand	Pliocenic		7.0		161.1	76.2		5.0				+				105
75	Drilled wells for Makedonija Turist	W/S for "Makedonija Turist"	Neogene below 15 m	Belimbegovo Motel	Belimbegovo village	Skopje	Ilinden	Upper Vardar, Kumanovo	4651550	7547200	228.6	Compacted organic-marsh sediment		1.00E-03	10.0		16.0	200	-5.00	8.0		0.52	18.6	+	+		6.5	102
76	Borehole			Studena Bara		Kumanovo	Kumanovo	Pchinja, Kumanovo	4654810	7561050	275	Compacted terrace gravel			2.2		9.6		-2.70									156/31
77	Borehole			Umin Dol	Umin Dol village	Kumanovo	Kumanovo	Upper Vardar, Kumanovo	4660700	7551380	518	Compacted desintegrated surface material			0.8		11.0		-6.10									156/27
78	Borehole			Matejche	Matejche village	Kumanovo	Lipkovo	Pchinja, Kumanovo	4665200	7549500	480	Compacted quarternary gravel and sand	Quaternary				120.0		-9.70									147/1
79	Borehole			Orizare	Orizare village	Kumanovo	Lipkovo	Pchinja, Kumanovo	4667850	7551750	390	Compacted quarternary gravel and sand	Quaternary		4.5		9.8		-1.80									156/V-21
80	Borehole			Vaksinci	Vaksince village	Kumanovo	Lipkovo	Pchinja, Kumanovo	4670510	7555200	385	Compacted quarternary sandy gravel with clay	Quaternary		4.0		9.3		-5.20									156/V-19
81	Borehole			Lopate	Lopate village	Kumanovo	Lipkovo	Pchinja, Kumanovo	4667250	7556180	365	Compacted quarternary sandy gravel with clay	Quaternary		4.5		11.0		-2.20									156/22
82	Borehole			East from Matejche	Matejche village	Kumanovo	Lipkovo	Pchinja, Kumanovo	4665000	7555630	475	Compacted quarternary sandy gravel with clay	Quaternary		4.30		120.0		-9.70									149/1
83	Borehole			Ljubodrag Selo	Ljubodrag Selo village	Kumanovo	Kumanovo	Pchinja, Kumanovo	4663350	7557500	420	Compacted pliocenic sand with gravel	Pliocenic		3.5		10.0		-7.60									156/26
84	Borehole			East from Cherkesko Selo	Cherkesko Selo village	Kumanovo	Kumanovo	Pchinja, Kumanovo	4664150	7557500	420	Compacted pliocenic not so clayey sand	Pliocenic				120.0		-12.00									147/2
85	Subartesian Borehole		Water on 12 m, after drilling level risen on 9 m. Clay marl below	Kumanovo	Kumanovo - center	Kumanovo	Kumanovo	Pchinja, Kumanovo	4664650	7558850	380	Compacted quarternary fine-grained sand	Quaternary				120.3		-9.00									149/2
86	Drilled wells for "slaughterhouse"	Industry (food)		Kumanovo	Kumanovo - center	Kumanovo	Kumanovo	Pchinja, Kumanovo	4663000	7562700	300	Compacted terrace gravel and sand		4.00E-04	7.0		17.5	400	-8.08	3.0		2.34	149.8	+	-	14.5	7.2	93
87	Drilled wells for "slaughterhouse"	Industry ("slaughterhouse")		Dobroshane	Dobroshane village	Kumanovo	Kumanovo	Pchinja, Kumanovo	4661650	7566230	310	Compacted pliocenic sand and gravel	Pliocenic		5.0		10.0		-1.20									156/25
88	Drilled wells for "slaughterhouse"	Industry ("slaughterhouse")	Tuff down to 6.5 m	JI from Mlado Nagorichane	Mlado Nagorichane village	Kumanovo	Staro Nagorichane	Pchinja, Kumanovo	4667900	7569000	380	Compacted quarternary silt sand	Quaternary				76.50		-2.60									147/3
89	Drilled wells for "slaughterhouse"	Industry ("slaughterhouse")		Zhegljane	Zhegljane village	Kumanovo	Staro Nagorichane	Pchinja, Kumanovo	4670020	7566100	418	Compacted pliocenic desintegrated tuff	Pliocenic				9.0		-6.60									156/17
90	Drilled wells for "slaughterhouse"	Industry ("slaughterhouse")	Pumpiing. Tuff down to 7.0 m	Zhegljane	Zhegljane village	Kumanovo	Staro Nagorichane	Pchinja, Kumanovo	4670000	7564450	444	Compacted pliocenic desintegrated agglomerative tuff	Pliocenic				53.0		-2.60	0.25								149/3
91	Drilled wells for "slaughterhouse"	Industry ("slaughterhouse")		East from Dolno Konjare	Dolno Konjare village	Kumanovo	Kumanovo	Pchinja, Kumanovo	4669180	7562450	435	Compacted quarternary gravel and sand	Quaternary		3.0		9.7		-3.50									156/18
92	Drilled wells for "slaughterhouse"	Industry ("slaughterhouse")		Tabanovce	TabanOvcheto wn	Kumanovo	Kumanovo	Pchinja, Kumanovo	4674450	7559170	395	Compacted quarternary sand with fragments and fine-grained gravel	Quaternary		1.1		11.0		-3.30									156/15
93	Drilled wells for "slaughterhouse"	Industry ("slaughterhouse")	Desintegrated schist below 8.5 m	Pelinci	Pelince village	Kumanovo	Staro Nagorichane	Pchinja, Kumanovo	4675500	7567500	390	Compacted pliocenic sand and gravel	Pliocenic		6.6	2	9.0		-1.70									156/10
94	Drilled wells for "slaughterhouse"	Industry ("slaughterhouse")	Clay marl below 9.5 m	Dragomanci	Dragomance village	Kumanovo	Staro Nagorichane	Pchinja, Kratovo	4675950	7571150	436	Compacted terrace gravel and sand			5.8		10.0		-2.20									156/11
95	Drilled wells for "slaughterhouse"	Industry ("slaughterhouse")		Vojnik	Vojnik village	Kumanovo	Klechevce	Pchinja, Kratovo	4668580	7572360	318	Compacted terrace gravel and sand			3.6		10.5		-2.20									156/12
96	Drilled wells for "slaughterhouse"	Industry ("slaughterhouse")		Klechevce	Klechevce village	Kumanovo	Klechevce	Pchinja, Kratovo	4664035	7569950	297	Compacted terrace gravel and sand			3.0		10.0		-1.80									156/13
97	Drilled wells for "slaughterhouse"	Industry ("slaughterhouse")		Kuchkarevo	Klechevce village	Kumanovo	Klechevce	Pchinja, Kratovo	4656050	7571750	370	Compacted alluvial fine-grained sand	Alluvial		1.3		10.0											156/14

Table 1(5/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.	
98	Drilled wells for "slaughterhouse"	Industry ("slaughterhouse")		Kratovo	Kratovo city	Kratovo	Kratovo	Pchinja, Kratovo	4660450	7596550	595	Compacted alluvial fine-grained sand	Alluvial		3.0		10.0		-3.00								156/9	
99	Group of drilled wells for metal processing factory	Industry (metal processing)	3 drilled wells	Kratovo	Kratovo city	Kratovo	Kratovo	Pchinja, Kratovo	4660500	7595700	580	Compacted alluvial gravel and sand	Alluvial		4.0		4.0			5.0							162	
100	Borehole			Rankovci	RankOvchetovn	Kriva Palanka	Rankovce	Pchinja, Kratovo	4669850	7592420	500	Compacted quaternary sand and gravel	Quaternary		3.8		9.5		-0.80								156/7	
101	Borehole			Slavishko Pole	Slavishko Pole field	Kriva Palanka	Rankovce	Pchinja, Kratovo	4670650	7598100	490	Compacted quaternary poly-granulated sand and gravel	Quaternary		4.0		9.0		-2.80								156/3	
102	Borehole			Ginovci	Ginovci village	Kriva Palanka	Rankovce	Pchinja, Kratovo	4671250	7593900	510	Compacted quaternary sand	Quaternary				16.0		-3.80								149/4	
103	Artesian borehole		Artesian horizon 90-95 m, Neogene below 17.1 m, andesite	Ginovci	Ginovci village	Kriva Palanka	Rankovce	Pchinja, Kratovo	4670600	7595500	480	Compacted pliocenic fine-grained sand	Pliocenic		5.0		101.0										147/10	
104	Drilled well for poultry farm	Industry (poultry farm)		Ginovci	Ginovci village	Kriva Palanka	Rankovce	Pchinja, Kratovo	4669700	7594900	460	Compacted quaternary sand with gravel	Quaternary		9.5	2	25.0	400	-1.48	8.4		3.6	164.0	+	+			95
105	Drilled well for poultry farm	Industry (poultry farm)		Psacha	Psaca village	Kriva Palanka	Rankovce	Pchinja, Kratovo	4670400	7599200	490	Compacted quaternary sand with gravel	Quaternary	4.30E-04		8	2	25.0	315	-1.90	8.2		3.5	185.7	+	+	7.1	94
106	Borehole			Kriva Palanka, Stamboliska Mala	Stamboliska Mala-settlement	Kriva Palanka	Kriva Palanka	Pchinja, Kratovo	4671250	7605600	595	Compacted quaternary sand with fragmented gravel	Quaternary	8.90E-05			11.0		-1.00								156/2	
107	Piezometer	Piezometer(factory-"Cepen Kamen")	Schist below 21.0 m	Kriva Reka (factory-"Cepen")	Near Kostur village	Kriva Palanka	Kriva Palanka	Pchinja, Kriva Palanka	4673604	7620247	950.4	Compacted alluvial-proluvial gravel and sand	Alluvial-proluvial		21	2	31.0	50.8	-0.90								123	
108	Borehole			Toranichka Reka	Near Kostur village	Kriva Palanka	Kriva Palanka	Pchinja, Kriva Palanka	4670870	7622547	1259.5	Compacted alluvial-proluvial gravel and sand	Alluvial-proluvial		19	4	20.0		-4.00								122/S-5	
109	Borehole			Toranica	Near Kostur village	Kriva Palanka	Kriva Palanka	Pchinja, Kriva Palanka	4668250	7624250	2037	Fractured shale and cipolin					450.0									116		
110	Borehole	W/S for Moshnica (Mining)		Moshnica (Mining settlement)	Moshnica-Mining settlement	Delchevo	Makedonska Kamenica	Bregalnica, Kriva Palanka	4659392	7630776	768.5	Compacted proluvial gravel and sand	proluvial				23.0		-3.00								124/D-2	
112	Group of dug wells	W/S for Kochani	9 wells with yield 20 D/25 each	Kochani	Kochani city	Kochani	Kochani	Bregalnica, Plachkovica	4637921	7619191	325.43	Compacted alluvial gravel and sand	Alluvial	1.00E-03	5.70E-05	8.0		300	-2.16	180		7.5	80.0	+	+	7.2	56	
113	Borehole			Vinica	Vinica city	Vinica	Vinica	Bregalnica, Plachkovica	4638850	7623000	344.8	Compacted alluvial gravel and sand	Alluvial				120.0		-4.80	2.0							149/5	
114	Group of dug ringed wells	Agriculture (greenhouse)	B-2 for breck factory on 6 m, Q=20.0 l/s, diameter 5 wells, one is using for reservoir with yield Q=7 m and	Vinica	Vinica city	Vinica	Vinica	Bregalnica, Plachkovica	4639150	7376000	380	Compacted alluvial gravel and sand	Alluvial				7.5	2000		25.0							158/1	
115	Group of dug ringed wells	W/S for Vinica		Vinica	Vinica city	Vinica	Vinica	Bregalnica, Plachkovica	4639250	8376800	380	Compacted alluvial gravel and sand	Alluvial				8.0	2000		49.5							158	
116	Drilled well			Orizari	Orizari village	Kochani	Orizari	Bregalnica, Plachkovica	4642300	7620150	358	Compacted alluvial gravel and sand	Alluvial	3.00E-04		19.0		400	-1.50	8.0		9.44	197.0	Fe	+	11.5	7.4	51/PEB-1
118	Dug ringed wells	Agriculture (greenhouse)	3 wells. One is in reference station Q=5.0 l/s each. For	Istibanje	Istibanje village	Vinica	Vinica	Bregalnica, Plachkovica	4643650	8375800	380	Compacted alluvial gravel and sand	Alluvial				7.0	2000		20.0							158	
119	Dug ringed wells		3 old wells with total yield Q=60.0 l/s and 2 new wells with total	Kalimansko Pole	Kalimansko Pole field	Vinica	Vinica	Bregalnica, Plachkovica	4646000	8384200	630	Compacted clayed gravel and sand					4.0			1.0							158/	
120	Dug wells	Industry (factory "Frotirka")	A39	Delchevo	Delchevo city	Delchevo	Delchevo	Bregalnica, Plachkovica	4648200	8398350	590	Compacted alluvial gravel and sand	Alluvial				7.0	2500		15.0							158/	
121	Group of dug ringed wells	W/S for Delchevo	Amphibolite below 3.2 m	Delchevo	Delchevo city	Delchevo	Delchevo	Bregalnica, Plachkovica	4647000	8399400	590	Compacted alluvial gravel and sand	Alluvial				6.0	2000		90.0				+	+		158/	
122	Dug ringed wells			Trabotvishte	Trabotvishte village	Delchevo	Delchevo	Bregalnica, Plachkovica	4639300	8402200	670	Compacted alluvial gravel and sand	Alluvial	7.00E-05			5.4	1000	-3.80	0.2		0.57				13	147/8	
123	Group of piezometers	Piezometer		"Razlovci"-dam		Delchevo	Delchevo	Bregalnica, Plachkovica	4632150	8397700	700	Compacted alluvial gravel and sand	Alluvial			3.0		40.0		-1.50							1164	

Table 1(6/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M')	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.	
124	Borehole			Vladimirovo	Vladimirovo village	Berovo	Berovo	Bregalnica, Plachkovica	4620550	8401400	820	Compacted alluvial fine-grained sand	Alluvial				8.0		-2.00	2.0	3.2						149/6	
125	Borehole		Schist below 93 m	Vladimirovo	Vladimirovo village	Berovo	Berovo	Bregalnica, Plachkovica	4618800	8400000	880	Compacted neogene sand	Neogene				107.4		-2.00								147/1	
126	Drilled well	W/S for Jargulica, Zleovo,	Pliocene below 10 m	Jargulica	Jargulica village	Radovish	Podaresh	Strumichka Reka, Plachkovica	4665400	8378150	300	Compacted alluvial pliocenic gravel and sand	Alluvial	6.90E-04	25.5	2	34.0	400	-2.84	15.5	3.15	156.0	+	+	14.5	7.2	84, EB-1	
127	Borehole			Podaresh	Podaresh village	Radovish	Podaresh	Strumichka Reka, Plachkovica	4608900	8378600	320	Compacted neogene sand with gravel	Neogene				60.0		-6.50								149	
128	Borehole			Podaresh	Podaresh village	Radovish	Podaresh	Strumichka Reka, Plachkovica	4607800	7627000	325	Compacted quaternary fine-grained sand	Alluvial				8.2		-6.50								149	
129	Group of drilled wells	W/S for Radovish	Q=11.0-17.0 l/s. Water bearing horizon down to 70 m	Radovish	Radovish city	Radovish	Radovish	Strumichka Reka, Plachkovica	4607400	7624700	331.5	Compacted alluvial pliocenic gravel and sand	Alluvial	1.00E-03	3.00E-04	17.0	42.0 to 47.0	300	-1.60	74	1.95 to 3.1	1132 to 952.0	+	+	13	7.3	63	
130	Drilled well	W/S for Voislavci		Voislavci	Voislavci village	Radovish	Radovish	Strumichka Reka, Plachkovica	4607650	7624100	331.4	Compacted alluvial pliocenic gravel and sand	Alluvial	2.30E-04		4	41.0	300	-1.70	8.0	3.65	83.5	+	+	13.5	7.6	66	
131	Intake gallery	W/S for Radovish		Radovish	Radovish city	Radovish	Radovish	Strumichka Reka, Plachkovica	4614000	7621600	440	Karstic limestone								16.0						66		
132	Artesian borehole		Pliocene below 10 m, Schist below 65 m	Radovish "Lom"	Radovish city	Radovish	Radovish	Strumichka Reka, Plachkovica	4610400	7615280	450	Compacted pliocenic gravel and sand	Pliocenic	1.80E-05		13	3	68.0	50.8	-3.10	0.35			+	+	7.4	64	
133	Group of drilled wells	W/S for Buchim	B-2 depth 7 m; Q=1.3; S=3.0	Buchim	Buchim village	Radovish	Radovish	Bregalnica, Plachkovica	4610400	7613280	420	Compacted pliocenic gravel and sand	Pliocenic	7.00E-05	3.00E-04	11.6	3	30.0	400	-3.80	5.0	1.69	200.0	+	+	14	6.9	73, CB-1
134	Borehole		Clay marl and claystone below 9.0 m	Pavleshinci	Pavleshinci village	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4649250	7577770	458	Compacted quaternary sludged sand	Quaternary				9.8		-0.70								156/43	
135	Borehole			Kalniste	Kalniste village	Probishtip	Probishtip	Bregalnica, Shtip	4650180	7598615	548	Compacted quaternary sludged sand	Quaternary			3.0		10.3		-5.70							156/92	
136	Intake gallery (Zletovo)	Intake gallery (Zletovo)	Well Q=17.0 m; S=2.1. Andesite tuff below	Ratavice	Ratavice village	Probishtip	Zletovo	Bregalnica, Shtip	4648114	7601688	425	Compacted alluvial gravel and sand	Alluvial				180		-2.70	38.0	5.69		Pb, Cl, SO <sub>4</sub>	+		7.5	59	
137	Dug ringed well (factory)	Industry (factory "akumulatori")		Ratavice	Ratavice village	Probishtip	Zletovo	Bregalnica, Shtip	4647517	7601610	418.55	Compacted alluvial gravel and sand	Alluvial	7.00E-02		4.2	4.5	2700	-1.40	25.0	2.29	12.1				7.2	60	
139	Borehole			Nemanjinci	Nemanjica village	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4640750	7584780	350	Compacted quaternary sand with gravel	Quaternary				10.3		-2.00								156/50	
140	Borehole			Gjugjanci	Gjugjanci village	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4644640	7578200	357	Compacted quaternary sand	Quaternary			5.5		8.0		-1.00							156/44	
141	Borehole			Chiflik Mezdra	Mezdra village	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4641850	7577630	335	Compacted proluvial sand					9.0		-1.50								156/47	
143	Borehole			North from Sveti Nikole	Sveti Nikole city	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4638600	7580800	320	Compacted proluvial sand and gravel	proluvial				8.0			5.0							156/49	
144	Dug ringed well for Sveti Nikole	W/S for Sveti Nikole		Sveti Nikole	Sveti Nikole city	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4637700	7580300	300	Compacted proluvial sand and gravel	proluvial			4.0	9.0	3000	-3.00	6.5							165	
145	Dug ringed well		2 wells Q= 5.0 l/s each	Sveti Nikole	Sveti Nikole city	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4636200	7579000	270	Compacted alluvial sand and gravel	Alluvial				4.5			10.0				+			50	
146	Dug ringed well "Sniteks"	Industry (textile factory) "Snitek"		Sveti Nikole	Sveti Nikole city	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4635250	7580000	268	Compacted alluvial sand and gravel	Alluvial	2.20E-04		0.3	10.0	1000		1.0	4.2						53, B-1	
147	Borehole			Peshirovo	Peshirovo village	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4632143	7581496	276	Compacted pliocenic partly clayey sand	Pliocenic			15	5	120.0									117/4	
148	Borehole			Hadjimitovo	Hadjimitovo village	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4630105	7580070	284	Compacted pliocenic sand	Pliocenic			24	9	118.0									117/3	
149	Borehole			Saramzalino	Saramzalino village	Sveti Nikole	Lozovo	Bregalnica, Shtip	4627652	7578580	277	Compacted pliocenic sand	Pliocenic			54	5	120.0									117/2	



Table 1(7/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.		
150	Sub-artesian Borehole			Karatmanovo	Karatmanovo village	Sveti Nikole	Lozovo	Bregalnica, Shtip	4624960	7572900	302	Compacted pliocenic sand	Pliocenic		5	2	30.1	140	-0.80	1.0		1.5					45/4a		
151	Sub-artesian Borehole			Durfuli	Durfulija village	Sveti Nikole	Lozovo	Bregalnica, Shtip	4624420	7575100	270	Compacted pliocenic sand	Pliocenic		11	2	30.0	140	-0.40	3.0		3.0					45/24		
152	Sub-artesian Borehole			Kjoseleri	Koselari village	Sveti Nikole	Lozovo	Bregalnica, Shtip	4625000	7577250	260	Compacted pliocenic sand	Pliocenic		7	3	30.4	140	-1.20	4.5		3.4					45/IV		
153	Drilled well	Industry (slaughterhouse refrigerator)		Ovche Pole railway station	OvchePole field	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4628900	7583100	240	Compacted pliocenic sand and gravel	Pliocenic	1.00E-03	1.00E-04	12	3	60.0	400	-2.50	10.0		7.0	150	504	14	7.2	44	
154	Drilled well	Industry (slaughterhouse)		Ovche Pole railway station	OvchePole field	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4530420	7584000	238.1	Compacted pliocenic sand and gravel	Pliocenic				100.0	400	-2.72	8.0		10.15					47/EB-3		
155	Drilled well	Industry (slaughterhouse)	Upper horizons are isolated because of the high NO <sub>3</sub>	Ovche Pole railway station	OvchePole field	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4530600	7584800	271.3	Compacted pliocenic sand and gravel	Pliocenic	6.80E-05		32	4	100.0	400	+ 0.50	13.0		10.4	900.0	+	+	17.5	7.4	47/EB-4
156	Drilled well	Industry (slaughterhouse)		Ovche Pole railway station	OvchePole field	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4629650	7584150	240	Compacted pliocenic sand and gravel	Pliocenic	5.02E-05		8.5	2	60.0	400	-5.00	7.0		7.53			17.5		49/B-5	
157	Drilled well	Industry (slaughterhouse)	EB-1 depth 56 m; diameter 350 mm	Ovche Pole railway station	OvchePole field	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4629850	7585200	247	Compacted pliocenic sand and gravel	Pliocenic	1.00E-05		22	3	60.0	400	-1.50	4.5		10.9	805	Fe	-	8.2	17	52/EB-2
158	Drilled well	Industry (slaughterhouse)		Erdjelija	Erdjelija village	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4632000	7586480	245	Compacted pliocenic sand and gravel	Pliocenic	7.80E-04		14	2	40.0	300	-0.50	22.0		1.8	230.0	SO <sub>4</sub>	+	14.5	7.5	48/PB-1
159	Drilled well (for Mustafino)	W/S for Mustafino		Mustafino	Mustafino village	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4630000	7590000	280	Compacted pliocenic sand and gravel	Pliocenic	1.80E-04		34.0		50.0	400	-6.88	12.94		5.22	208.0	NO <sub>3</sub> , NO <sub>2</sub>	-	15.0	7.5	54
160	Drilled well for Alkaloid	Industry (medicine factory)"Alkalo		Dolni Balvan	Dolni Balvan village	Shtip	Karbinci	Bregalnica, Shtip	4631400	7601250	204	Compacted alluvial sand and gravel	Alluvial	5.00E-03		11	5	14.0	300	-1.32	14.0		2.37	60.0 318.0	NO <sub>2</sub>	+	14.0	7.4	62
161	Drilled well for greenhouses	Agriculture (greenhouse)	Flisch	Torinci	Tarinci village	Shtip	Karbinci	Bregalnica, Shtip	4629400	7601050	290	Compacted alluvial sand and gravel	Alluvial	1.00E-04		8.3	5	16.5	420	-2.10	4.20		6.85	31.8	solid		14.5	7.2	55/B-10
162	Group of Radial wells for Shtip	W/S for Shtip	R-2; Q= 40.0; S= 2.0; 4 drainage 20m each	Shtip	Shtip city	Shtip	Shtip	Bregalnica, Shtip	4625200	7599200	300	Compacted alluvial sand and gravel	Alluvial				12.0	4000		95.0		3.0					P-1		
163	Group of piezometers	Piezometer	Gabbro below 7.0 m	Jagmular	Jamularci village	Shtip	Shtip	Bregalnica, Shtip	4622400	7588200	218.5	Compacted alluvial sand and gravel	Alluvial			7.0		30.0	50.8								167/S-7		
164	Radial wells for Shtip	W/S for Shtip	4 horizontal drainages with diameter 150 mm. 3 drainages are	Banja Kezhevica	Kezhevica spa	Shtip	Shtip	Bregalnica, Shtip	4621300	7597180	278	Compacted terrace large grained gravel and sand						4000		40.0		2.0		+	+		35		
165	Piezometer	Piezometer		Banja Kezhevica	Kezhevica spa	Shtip	Shtip	Bregalnica, Shtip	4620690	7596745	255.3	Compacted terrace large grained gravel and sand		8.00E-05		9.0		15.0	50.8	-1.58				Mn			7.2	35/HB-6	
166	Group of piezometers	Piezometer	Flisch below 10.0 m	Banja Kezhevica	Kezhevica spa	Shtip	Shtip	Bregalnica, Shtip	4619850	7596914	254.8	Compacted terrace large grained gravel and sand		2.30E-05	1.40E-03	9.0		11.0	50.8	-2.30				Mn			7.2	35/HB-6	
167	Group of piezometers	Piezometer	Flisch below 10.8 m	Banja Kezhevica	Kezhevica spa	Shtip	Shtip	Bregalnica, Shtip	4618629	7595821	253.1	Compacted terrace large grained gravel and sand		3.20E-03		10.8		13.0	50.8	-1.46				Mn	+		7.5	35/HB-8	
168	Drilled well for screening plant	Industry (screening plant)		Lakavica	Lakavica village	Shtip	Shtip	Bregalnica, Shtip	4610900	7604000	310	Compacted terrace large grained gravel and sand		3.00E-05				18.0	300	-1.10	11.0		1.64	36.45	+	+		61	
169	Group of piezometers	Piezometer	10 piezometers	Krivolak	Krivolak village	Negotino	Negotino	Lower Vardar, Shtip	4599915	7594660	126.89	Compacted alluvial sand and gravel	Alluvial			1.3		15.0	63.5	-5.50							7.8	32/K-3	
170	Drilled well		Clay marl below 10.0 m	Djidimirci	Djidimirci village	Negotino	Negotino	Lower Vardar, Shtip	4600650	7588400	140	Compacted alluvial sand and gravel	Alluvial	1.00E-03	1.00E-04	6.5		11.0	400	-2.50	7.0		7.5	25.0	SO <sub>4</sub> , Cl	-	14	7.5	65
171	Group of drilled wells	Industry ("Zeleshuk" factory)	OB-1 Q=8.5; OB-2 Q=5.8; OB-3 Q=3.2. Flisch below 10	Kukurechani	Kukurechani village	Negotino	Negotino	Lower Vardar, Shtip	4599967	7588676	125.7	Compacted alluvial sand and gravel	Alluvial	3.00E-03		8.0		13.0	300	-2.20	17.5		4.68	15.0	+	-	14	7.5	33/OB-1
172	Group of drilled wells		2 wells	Gradsko	Gradsko settlement	T. Veles	Gradsko	Lower Vardar, Shtip	4603400	7581100	130	Compacted alluvial sand and gravel	Alluvial			5.5		8.0		-1.50	6.0							168	
173	Drilled well for Chemical factory	Industry (Chemical factory)	B3G	Zgropolci	Zgropolci village	T. Veles	Gradsko	Lower Vardar, Shtip	4613279	7572511	148.8	Compacted alluvial sand and gravel	Alluvial	2.80E-03		3.8	2	14.0	300	-2.00	10.0		7.5	15.9	+	+		7.0	31

Table 1(8/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M')	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.	
174	Borehole			Nerezi	Nerezi village	Skopje	Karposh	Upper Vardar, Skopje	4649369	7532636	380	Marly clay and clay					27.45										153/1	
175	Drilled well (for Alumina factory)	Industry (Alumina factory)		Skopje	Karposh settlement	Skopje	Karposh	Upper Vardar, Skopje	4650500	7533475	252.3	Compacted alluvial sand and gravel	Alluvial	5.90E-04	6.70		10.0	300	-4.70	2.80	1.71	30.0					130/OB	
176	Piezometer	Piezometer		Skopje				Upper Vardar, Skopje	4649442	7535858	248.36	Compacted alluvial sand and gravel	Alluvial	2.00E-03			117.0		-5.46								161/164	
177	Piezometer	Piezometer	Neogene below 39.5 m	Skopje				Upper Vardar, Skopje	4649539	7536893	244.2	Compacted alluvial sand and gravel	Alluvial	2.00E-03	39.5		183.19	76.2	-11.88								161/G-44	
178	Piezometer	Piezometer	Pliocene below 74.9 m	Skopje				Upper Vardar, Skopje	4649076	7537564	242.6	Compacted alluvial sand and gravel	Alluvial		40.0		151.0	50.8	-8.48								161/179	
179	Drilled well	W/S for Jane Sandanski settlement		Skopje	Jane Sandanski settlement	Skopje	Kisela Voda	Upper Vardar, Skopje	4649700	7538650	240	Compacted alluvial sand and gravel	Alluvial	6.40E-04	42.0		50.0	300	-10.50	40.0	2.87	438.4		+	13.5	7.2	143	
180	Group of drilled wells	Industry (brewery)	B-2 ; Q= 15.0; S= 1.0	Skopje	Skopje Brewery	Skopje	Gazi Baba	Upper Vardar, Skopje	4650575	7539132	245	Compacted alluvial sand and gravel	Alluvial				15.0		-6.75	45	30	1.08					137/B-1	
181	Piezometer	Piezometer	Pliocene below 109 m	Skopje				Upper Vardar, Skopje	4649657	7539062	240.2	Compacted alluvial sand and gravel	Alluvial	1.80E-05	2.70E-03	48.0	124.0	76.2	-10.43								161/198	
182	Piezometer	Piezometer	Neogene below 204 m	Skopje				Upper Vardar, Skopje	4648419	7538679	240.6	Compacted alluvial sand and gravel	Alluvial		74.0		218.0	76.2	-9.48								161/193	
183	Piezometer	Piezometer	Pliocene below 92.4 m	Skopje				Upper Vardar, Skopje	4647344	7539079	241.9	Compacted alluvial sand and gravel	Alluvial	3.00E-07		119	2	142.5	76.2	-10.30							161/195	
184	Drilled well	Industry (glass factory "Staklara")	B-2 depth 25 m Q= 20.0 l/s	Skopje	Kisela Voda settlement	Skopje	Kisela Voda	Upper Vardar, Skopje	4646800	7539600	240	Compacted alluvial sand and gravel	Alluvial				25.0	500	-12.00	60	40	10.0		+			140/B-1	
185	Drilled well	Industry (company "Slavej")		Skopje		Skopje	Kisela Voda	Upper Vardar, Skopje	4650050	7534870	250.3	Compacted alluvial sand and gravel	Alluvial				7.6	300	-2.40	1.6		1.75					134	
186	Piezometer	Piezometer	Pliocene below 34 m	Skopje		Skopje	Kisela Voda	Upper Vardar, Skopje	4646387	7511326	238.8	Compacted alluvial sand and gravel	Alluvial	2.00E-03	56	2	24.0	76.2	-9.96								161/218	
187	Drilled well		Q= 518 l/s (equation)	Trubarevo-Lisiche, Skopje	Trubarevo village, Lisiche settlement	Skopje	Gazi Baba, Kisela Voda	Upper Vardar, Skopje	4647145	7541360	235.6	Compacted alluvial sand and gravel	Alluvial	1.00E-02	16.61		19.3	272		40.0							129/B-1	
188	Piezometer	Piezometer	Pliocene below 145 m	Trubarevo-Lisiche, Skopje	Trubarevo village, Lisiche settlement	Skopje	Gazi Baba, Kisela Voda	Upper Vardar, Skopje	4647482	7541525	236.1	Compacted alluvial sand and gravel	Alluvial	1.40E-03	144.0		170.0	76.2	-7.19								161/220	
189	Drilled well		Q= 1146.0 l/s (equation)	Trubarevo-Lisiche, Skopje	Trubarevo village, Lisiche settlement	Skopje	Gazi Baba, Kisela Voda	Upper Vardar, Skopje	4647735	7540920	236	Compacted alluvial sand and gravel	Alluvial	1.00E-02	22.18		24.5	272		40.0							129/B-2	
190	Drilled well		Q= 859.0 l/s (equation)	Trubarevo-Lisiche, Skopje	Trubarevo village, Lisiche settlement	Skopje	Gazi Baba, Kisela Voda	Upper Vardar, Skopje	4648680	7541240	235	Compacted alluvial sand and gravel	Alluvial	9.00E-03	22.7		25.0	272		40.0							129/B-3	
191	Drilled well			Trubarevo-Lisiche, Skopje	Trubarevo village, Lisiche settlement	Skopje	Gazi Baba, Kisela Voda	Upper Vardar, Skopje	4649237	7540150	235	Compacted alluvial sand and gravel	Alluvial				11.2		-5.52	16.0							133/B-1	
192	Drilled well		Q= 1190.0 l/s (equation)	Trubarevo-Lisiche, Skopje	Trubarevo village, Lisiche settlement	Skopje	Gazi Baba, Kisela Voda	Upper Vardar, Skopje	4649471	7541143	235	Compacted alluvial sand and gravel	Alluvial	8.00E-03	21.4		23.01		40.0		0.38						129/B11	
193	Group of drilled wells	Industry (for thermal power plant "Skopje")	B-10, depth 20.0 m, Q= 16.5, S= 1.0	Trubarevo-Lisiche, Skopje	Trubarevo village, Lisiche settlement	Skopje	Gazi Baba, Kisela Voda	Upper Vardar, Skopje	4649750	7541280	233.9	Compacted alluvial sand and gravel	Alluvial	1.00E-02	14.6		25.0	300	-5.40	63.7		5.23	495.0		+	+	7.2	121/B-12
194	Drilled well	Industry (shoes factory "Gazela")		Trubarevo-Lisiche, Skopje	Trubarevo village, Lisiche settlement	Skopje	Gazi Baba, Kisela Voda	Upper Vardar, Skopje	4650200	7540810	238.6	Compacted alluvial sand and gravel	Alluvial	3.60E-02	15.0		19.5	200	-6.04	30	15	0.25	45.0		+	+	7	136
195	Drilled well	Industry (food factory "Skopsko")		Trubarevo-Lisiche, Skopje	Trubarevo village, Lisiche settlement	Skopje	Gazi Baba, Kisela Voda	Upper Vardar, Skopje	4650472	7542095	233	Compacted alluvial sand and gravel	Alluvial	4.70E-04	8.0		30.0	400	-13.00	8.76		4.0	92.4				136	
196	Piezometer	Piezometer	Pliocene below 158 m	Madjari, Skopje	Madjari settlement	Skopje	Gazi Baba	Upper Vardar, Skopje	4650647	7542271	214.8	Compacted alluvial sand and gravel	Alluvial	3.00E-06	44.0		203.0	76.2	-3.80								161/225	
197	Radial well		12 drainages 20 m each with diameter 200 mm.	Skopje				Upper Vardar, Skopje	4648250	7542850	232	Compacted terrace gravel and sand					24.55	4000		890.0		10.0					129	

Table 1(9/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (ft)	No. of aquifers	Well depth (M')	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.	
198	Drilled well		Q= 298 l/s (equation)	Trubarevo-Lisiche	Trubarevo village, Lisiche settlement	Skopje	Gazi Baba, Kisela Voda	Upper Vardar, Skopje	4648141	7543240	232.5	Compacted terrace gravel and sand		6.40E-03	13.66		10.0			40.0	0.45						129/B-1	
199	Drilled well		Q= 604.0 l/s (equation)	Trubarevo-Lisiche	Trubarevo village, Lisiche settlement	Skopje	Gazi Baba, Kisela Voda	Upper Vardar, Skopje	4648650	7544240	231.6	Compacted terrace gravel and sand		7.90E-03	18.9		21.5			40.0								129/B-IV
200	Drilled well		Q=817.0 l/s (equation)	Trubarevo-Lisiche	Trubarevo village, Lisiche settlement	Skopje	Gazi Baba, Kisela Voda	Upper Vardar, Skopje	4647833	7545070	230.5	Compacted terrace gravel and sand		1.00E-02	24.8		26.0			40.0								129/B-III
201	Group of newly drilled wells	Industry (refinery)	5 wells with yield Q= 45.0 each	Jurumleri	Jurumleri village	Skopje	Gazi Baba	Upper Vardar, Skopje	4646600	7546100	227	Compacted terrace gravel and sand		3.00E-03	16	2	23.0	500	-2.30	225.0	45	6.0	23.0	+	+	6.9	113	
202	Drilled well	W/S for Idrizovo		Idrizovo	Idrizovo village	Skopje	Gazi Baba	Upper Vardar, Skopje	4646000	7547300	227	Compacted terrace gravel and sand		2.00E-03	8.0		18.0	300	-3.87	27.0		5.5	36.0	+		7.4	118	
203	Artesian borehole		Pliocene below 36.0 m. Water bearing horizon from 165-16?	Kadino Selo	Kadino village	Skopje	Ilinden	Upper Vardar, Skopje	4646841	7549835	227.1	Compacted pliocenic sand and gravel	Pliocene		3.0		172.0	76.2		1.5			+		17.2	7.5	100	
204	Drilled well	W/S for railway station "Idrizovo"	B-2 depth 119 m. H=10+3=13	Ilinden railway station		Skopje	Ilinden	Upper Vardar, Skopje	4650600	7548400	238	Compacted quarternary sand	Quaternary	2.40E-05			10.0	200	-3.00	0.9		1.87	28.0			7.0	103	
205	Drilled well	Industry (refinery)		Tekija	Tekija village	Skopje	Ilinden	Upper Vardar, Skopje	4648450	7560000	220	Compacted terrace sand		1.50E-03	2.0		5.0	400	-2.80	5.0		0.97	93.0	+	-	13	7.5	99
206	Borehole			Gorno Konjare	G. Konjare village	Skopje	Petrovec	Pehinja, Skopje	4648450	7560000	220	Compacted terrace sand			10		12.0		-4.00								169	
207	Drilled well (for police)	W/S for police office	Flisch below 11.0 m	Petrovec	Petrovec settlement	Skopje	Petrovec	Upper Vardar, Skopje	4645200	7552550	240	Compacted quarternary sand and gravel	Quaternary	2.30E-05	6	3	58.0	400	-3.60	1.5		11.63		+	-		120	
208	Drilled well	W/S for former yugoslav army		Petrovec	Petrovec settlement	Skopje	Petrovec	Upper Vardar, Skopje	4644050	7552000	225	Compacted quarternary sand and gravel	Quaternary	5.50E-05	18	2	61.0	300	-3.00	8.0		14.05	450.0	+	-	15.0	7.4	114
209	Artesian borehole			Petrovec	Petrovec settlement	Skopje	Petrovec	Upper Vardar, Skopje	4643800	7551150	224	Compacted pliocenic sand and gravel	Pliocene		5.0		57.2			3.0							105,P	
210	Group of drilled wells	Industry (electric factory)	B 1 Q= 24.0; S= 3.65	Morani	Morani village	Skopje	Studenichani	Upper Vardar, Skopje	4643850	7547350	226	Compacted terrace sand and gravel		1.50E-03	23	2	35.0	400	-1.80	33.0		3.63	385.1	+	-	14	7.3	108,B1
211	Piezometer	Piezometer		Morani	Morani village	Skopje	Studenichani	Upper Vardar, Skopje	4642690	7546750	229.5	Compacted terrace sand and gravel		3.00E-06	7	2	40.0	50.8	-1.35								101,HD-2	
212	Group of drilled wells	Industry ("Konzerva Eksport")	B1 is destroyed; B3 Q= 22.0	Morani	Morani village	Skopje	Studenichani	Upper Vardar, Skopje	4642250	7467000	235	Compacted terrace sand and gravel		1.00E-05			102.0	400	-7.00	45.0	23	24.6	200	+	+	7.2	70/B-2	
213	Drilled well	W/S for former yugoslav army		Ognjanci	Ognjanci village	Skopje	Petrovec	Upper Vardar, Skopje	4642400	7548750	225	Compacted terrace sand and gravel		1.00E-04	12.0		20.0	200	-1.20	10.0		0.78		+	+	14.0	7.4	119
214	Artesian borehole			Rzhanichino	Rzhanichino village	Skopje	Petrovec	Upper Vardar, Skopje	4642400	7552300	223	Compacted pliocenic sand and gravel	Pliocene		9.0		150.0		-3.00								105/R	
215	Drilled well	Industry (food factory "Skopsko")		Rzhanichino	Rzhanichino village	Skopje	Petrovec	Upper Vardar, Skopje	4642450	7552500	223.1	Compacted terrace sand and gravel		4.00E-05	0.3		10.0	200		1.0		4.0	56.0	DH?	58	7.8	107	
216	Borehole		Neogene below 18 m	Taor-Rzhanichino	Rzhanichino village	Skopje	Petrovec	Upper Vardar, Skopje	4641600	7552800	225	Compacted terrace sand and gravel			0.5		20.0		-1.00								106/B-4	
217	Drilled well	Industry (food factory "Skopsko")		Taor-Rzhanichino	Rzhanichino village	Skopje	Petrovec	Upper Vardar, Skopje	4641120	7552400	223	Compacted terrace sand and gravel		9.50E-05	2.8		18.0	200	-0.80	1.5		9.6	282.0			8.4	106GB	
218	Borehole			Taor-Rzhanichino	Rzhanichino village	Skopje	Petrovec	Upper Vardar, Skopje	4640800	7551100	220	Compacted terrace sand and gravel			7.8	2	19.0		-0.70								106/1	
219	Borehole			Katlanovo	Katlanovo settlement	Skopje	Petrovec	Pehinja, Skopje	4641618	7555846	399	Compacted pliocene	Pliocene				200.0										153/D-4	
221	Group of boreholes		B-2 artesian horizon =98; 3 artesian horizons on B1	Katlanovo	Katlanovo settlement	Skopje	Petrovec	Pehinja, Skopje	4639800	7558450	250	Karstic marbled limestone			8.0		180.0		+	5.00	2.5				25.0	7.1	154/36,B-1	
222	Drilled well	Industry (construction enterprise)		Katlanovo	Katlanovo settlement	Skopje	Petrovec	Pehinja, Skopje	4638150	7657000	224	Compacted quarternary sand and gravel	Quaternary	1.60E-04	3.5		11.3	300	-2.80	2.0		2.6	180.0	+		13	7.4	145

Table 1(10/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Dia-meter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacterio-logical	Tempe-rature	pH	Reference No.	
223	Group of drilled wells	W/S for "Mlada Naselba"	Neogene below 10.5 m; B-1 Q= 5.0 l/s	Katlanovo	Katlanovo settlement	Skopje	Petrovec	Pchinja, Skopje	4637520	7557250	220	Compacted terrace sand and gravel		5.20E-04	6.2		12.0	400	-6.25	14.0	9	3.0	200.0	+	+	7.1	76/B-2	
224	Drilled well	Industry (Farming and Industrial)		Zelenikovo	Zelenikovo village	Skopje	Zelenikovo	Upper Vardar, Skopje	4638000	7550500	225	Compacted alluvial gravel and sand	Alluvial	1.50E-03	6.0		16.0	300	-2.34	5.0		2.39	46.3				69	
225	Drilled well			Zelenikovo	Zelenikovo village	Skopje	Zelenikovo	Upper Vardar, Skopje	4638250	7549900	221	Compacted alluvial gravel and sand	Alluvial	1.90E-05	6.0		10.2	400		2.3		5.0	55.0	+	-	7.1	68/SB-13	
226	Drilled well			Zelenikovo	Zelenikovo village	Skopje	Zelenikovo	Upper Vardar, Skopje	4637600	7550100	227.6	Compacted alluvial gravel and sand	Alluvial	8.00E-05	4.5		10.0	300	-6.26	0.6		2.99	26.2	+	+	7.1	68/SB-12	
227	Drilled well	Industry (dairy food)	the yield is increasing also, with increasing of the	Zelenikovo	Zelenikovo village	Skopje	Zelenikovo	Upper Vardar, Skopje	4637000	7550000	210	Compacted alluvial gravel and sand	Alluvial				9.27	400	-8.60	0.614		0.5		Cl	+	7.0	68	
228	Artesian borehole			Markova Sushica	Markova Sushica village	Skopje	Studenichani	Upper Vardar, Skopje	4640450	7534600	360	Fractured neogenic sandstone	Neogene				360.0										109/B-4	
229	Drilled well			Markova Sushica	Markova Sushica village	Skopje	Studenichani	Upper Vardar, Skopje	4640450	7533100	392.3	Karstic marble and dolomite		1.20E-04			110.0	200	-75.00	6.8		15.2	1360.0	+	+	14.5	7.2	109/OB
230	Piezometer	Piezometer		Markova Sushica	Markova Sushica village	Skopje	Studenichani	Upper Vardar, Skopje	4641350	7530800	469.9	Karstic marble and dolomite					251.0		-101.20								109/B-2	
231	Piezometer	Piezometer		Markova Sushica	Markova Sushica village	Skopje	Studenichani	Upper Vardar, Skopje	4641920	7529150	592.7	Karstic marble and dolomite					370.13		-195.80								109/B-1	
232	Group of piezometers	Piezometer	Schist below 3 m	"Paligrad" dam	Paligrad village	Skopje	Zelenikovo	Upper Vardar, Skopje	4630700	7539700	817.9	Compacted alluvial gravel and sand	Alluvial			3.0	40.0										170/D-6	
233	Group of piezometers	Piezometer	Schist below 7 m	Bashino Selo	Bashino Selo village	T. Veles	Veles	Upper Vardar, Skopje	4623450	7562300	164.1	Compacted alluvial gravel and sand	Alluvial			7.0	50.0		-1.00								171/57	
234	Drilled well			Chaloshevo	Chaloshevo village	T. Veles	Veles	Upper Vardar, Skopje	4623400	7566450	250	Compacted alluvial gravel and sand	Alluvial	1.20E-05	6.0		8.7	500	-2.00	15.0		4.0					126	
235	Radial Well Veles city	W/S for Veles	8 drainages 18-29 m each; diameter 216 mm	Veles	Veles city	T. Veles	Veles	Upper Vardar, Skopje	4621200	7564350	160	Compacted alluvial gravel and sand	Alluvial				10.0	4000	-2.00	65.0		6.5		+	+		125/R-1	
236	Radial Well Veles city	W/S for Veles	8 drainages 18-21 m each; diameter 216 mm	Veles	Veles city	T. Veles	Veles	Upper Vardar, Skopje	4621000	7564600	160	Compacted alluvial gravel and sand	Alluvial				10.0	4000	-2.00	55.0		6.5		+	+		125/R-2	
237	Group of drilled wells		For B-1 Q= 9.0 l/s; wells are not working	Veles	Veles city	T. Veles	Veles	Upper Vardar, Skopje	4620445	7564810	160	Compacted alluvial gravel and sand	Alluvial	4.50E-05	3.60E-03	5.0	11.0	300	-3.60	15.0	6	6.0	6.8	+	-	7.8	28/B-2	
238	Group of drilled wells		10 wells are drilled Q= 1.8-9.0 l/s	Veles	Veles city	T. Veles	Veles	Upper Vardar, Skopje	4620000	7564750	163.5	Compacted alluvial gravel and sand	Alluvial	2.20E-04		2.0	10.0	300	-3.00	45.0	9	4.0	180.0	+	-	7.2	29/B-2	
239	Group of drilled wells			Veles	Veles city	T. Veles	Veles	Upper Vardar, Skopje	4618180	7566200	160	Compacted alluvial gravel and sand	Alluvial	2.15E-05		6.0	9.2	400	-1.20	9.0		1.10	16.0			7.4	30	
240	Drilled well	W/S for Orizari	Clay marl below 5.0 m	Dolno Orizari	D. Orizari village	T. Veles	Veles	Upper Vardar, Skopje	4614400	7561700	220	Compacted alluvial gravel and sand	Alluvial			5.0	16.0	400	-1.35	7.0		10.0					172	
241	Drilled well	W/S for Orizari		Dolno Orizari	D. Orizari village	T. Veles	Veles	Upper Vardar, Skopje	4614250	7560500	230	Compacted alluvial gravel and sand	Alluvial			7.0	30.0	300	-4.00	1.0							172	
242	Sub-artesian borehole		Occurance of groundwater on 51 m	Tetovo	Tetovo city	Tetovo	Tetovo	Upper Vardar, Skopje	4650700	7497500	470	Compacted proluvial and pliocenic sand with cobble	Proluvial-Pliocenic				150.0		-26.00								3/1	
243	Piezometer	Piezometer		Zhelino	Zhelino village	Tetovo	Zhelino	Upper Vardar, Skopje	4650046	7505960	406.8	Compacted pliocenic sand and gravel	Pliocenic	2.00E-06			41.0	50.8	-1.70								21/32	
244	Piezometer	Piezometer		Zhelino	Zhelino village	Tetovo	Zhelino	Upper Vardar, Skopje	4650064	7505900	407.2	Compacted pliocenic sand and gravel	Pliocenic			2.4	40.0	63.5	-9.80					+		9	2/33	
245	Piezometer	Piezometer		Zhelino	Zhelino village	Tetovo	Zhelino	Upper Vardar, Skopje	4650036	7505960	420.4	Karstic marble					48.5	50.8	-35.50					+		11	7.5	2/34
246	Borehole			Sarakjince	Sarakino town	Tetovo	Tetovo	Upper Vardar, Skopje	4647900	7503950	414.4	Compacted terrace sand and gravel		2.80E-05	1.60E-06	21.9	9	73.8	54	-1.50								2/45k

Table 1(11/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.	
247	Piezometer	Piezometer	H in alluvium = 5.8; H in Pliocene = 24.6	Falisha	Falisa village	Tetovo	Tetovo	Upper Vardar, Skopje	4648305	7501010	435.1	Compacted pliocenic sand and gravel	Pliocenic	4.40E-06	30.4	7	150.0	50.8	-8.50				+		11	7.4	2/25	
248	Borehole		Schist below 9.0 m	Palchishte	Palchishte village	Tetovo	Kamenjane	Upper Vardar, Skopje	4647500	7494400	560	Compacted delluvial slope bed load	Dilluvial				11.5										2/47k	
249	Dug well			Kamenjane	Kamenjane	Tetovo	Kamenjane	Upper Vardar, Skopje	4644300	7494100	500	Compacted delluvial slope bed load	Dilluvial	2.20E-05			9.70	600	-8.79	0.2	1.2				13		1/36	
250	Drilled well	Agriculture (for farm)	H in alluvium = 7.7; H in Pliocene = 10.6	Chelopek	Chelopek	Tetovo	Kamenjane	Upper Vardar, Skopje	4642700	7499250	445	Compacted alluvial-pliocenic sand and gravel	Alluvial-Pliocenic	9.00E-03	7.00E-04	18.3	28.0	400	-2.40	20.0			+			7.3	5/SP-1	
251	Dug well			Miletino	Miletino village	Tetovo	Brvenica	Upper Vardar, Skopje	4640350	7501750	520	Compacted terrace sand and gravel		8.00E-05			5.2	750	-418.10	0.3	0.25				14		1/42	
252	Borehole		H in alluvium = 4.0; H in Pliocene = 60.4	Radijovce	RadijOvchevillage	Tetovo	Brvenica	Upper Vardar, Gostivar	4640350	7497260	456	Compacted pliocenic sand and gravel	Pliocenic	4.00E-03	64.4	9	128.5	50.8	-6.20				+		14	7.5	2/28	
253	Borehole			Badovina railway station	Railway station	Tetovo	Bogovinje	Upper Vardar, Gostivar	4640750	7495610	479.2	Compacted pliocenic sand and gravel	Pliocenic	7.00E-05	49.4	7	150.0		-5.70								2/27	
254	Piezometer	Piezometer	Quartzite below 292 m; Schist below 294 m	Pirochka reka(river)	Pirochka river	Tetovo	Bogovinje	Upper Vardar, Gostivar	4648305	7494373	435	Compacted pliocenic sand and gravel	Pliocenic	1.00E-03	27.5	2	312.0	50.8	-27.80									2/26
255	Borehole			Gostivar				Upper Vardar, Gostivar	4633200	7493200	300	Compacted pliocenic sand and gravel	Pliocenic				7.2		-7.00								2/70k	
256	Borehole			Tumchevishte	Tumchevishte village	Gostivar	Chegrane	Upper Vardar, Gostivar	4634000	7495750	490	Compacted pliocenic sand and gravel	Pliocenic	9.00E-04			5.0	700	-4.10	0.7	0.6				14		1/48	
257	Borehole			Chegrane	Cegrane village	Gostivar	Chegrane	Upper Vardar, Gostivar	4632500	7498100	500	Karstic limestone		2.50E-03			8.0	600	-7.71	0.6	0.2				13		1/49	
258	Piezometer	Piezometer		Forino	Forino village	Gostivar	Chegrane	Upper Vardar, Gostivar	4630209	7496950	493.2	Compacted alluvial sand with gravel	Alluvial	3.70E-04			56.0	50.8	-1.20				+		12	7.2	2/30	
259	Piezometer	Piezometer		Forino	Forino village	Gostivar	Chegrane	Upper Vardar, Gostivar	4630230	7496826	501.8	Fractured quartzite-porphry					60.0	50.8	-8.00								2/29	
260	Borehole			Gostivar	Gostivar city	Gostivar	Gostivar	Upper Vardar, Gostivar	4630600	7495000	480	Compacted terrace sand with gravel					5.3		-2.20								2/104k	
261	Borehole			Zubovce	ZubOvchevillage	Gostivar	Vrapchishte	Upper Vardar, Gostivar	4631300	7490600	600	Compacted terrace sand with gravel					7.0		-5.80								2/99k	
262	Piezometer	Piezometer		Gostivar Debreshe	Debrese village	Gostivar	Gostivar	Upper Vardar, Gostivar	4629170	7491750	540.6	Compacted terrace sand with gravel		1.00E-05	1.60E-03	8.5	102.0	50.8	-2.50				+		11	6.6	2/31	
263	Dug well			Chajle	Cajle village	Gostivar	Gostivar	Upper Vardar, Gostivar	4629600	7494750	390	Compacted terrace sand with gravel		5.00E-02			5.71	400	-4.59	8.0	0.9				13		1/53	
264	Borehole			Zdunje	Zdunje village	Gostivar	Vrutok	Upper Vardar, Gostivar	4627400	7489400	640	Compacted terrace sand with gravel					5.5		-3.70								2/141k	
267	Piezometer	Piezometer	Marble below 9.0 m	Studenchica	Studenchica spring	Kichevo	Drugovo	Treska, Gostivar	4600000	7488000	1055	Compacted alluvial sand and gravel	Alluvial	1.00E-03	9.0		2000		-2.00									11/SB-2
269	Piezometer	Piezometer		Rashtani	Rashtani village	Kichevo	Kichevo	Treska, Gostivar	4600000	7497250	660	Compacted terrace sand and gravel					18.0	20.0	50.8	-3.25							157/32	
270	Artesian borehole		3 artesian horizons 51-55; 89-97 and 104-107 m	Oslomej	Oslomej town	Kichevo	Oslomej	Treska, Gostivar	4601250	7499400	656	Compacted pliocenic sand	Pliocenic			27	3			1	0.5							157
271	Drilled well		B2 Q= 0.17 l/s	Oslomej	Oslomej town	Kichevo	Oslomej	Treska, Gostivar	4601117	7501499	656.2	Compacted terrace sand		2.30E-05		5.9	28.0	300	-3.20	0.7		16.6	40.6			7.2	9,2 and 6	
272	Drilled well			Oslomej	Oslomej town	Kichevo	Oslomej	Treska, Gostivar	4601000	749980	656	Compacted terrace sand					20.0	300	-3.00	0.2							9,B-9	
273	Piezometer	Piezometer		Oslomej	Oslomej town	Kichevo	Oslomej	Treska, Gostivar	4601650	7501100	650	Compacted terrace sand				5.0	8.0	50.8	-1.53								157/33	

Table 1(12/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.
274	Piezometer	Piezometer		Kichevo	Kichevo city	Kichevo	Kichevo	Treska, Gostivar	4597350	7497280	618	Compacted terrace sand and gravel					20.0	50.8	-4.24								157/30
275	Drilled well	Industry (factory "Vraneshnica")		Kichevo	Kichevo city	Kichevo	Kichevo	Treska, Gostivar	4596350	7497150	620	Compacted pliocenic sand and gravel	Pliocenic	7.00E-06	3.1		28.0	300	-9.00	1.5		5.0	57.6	+	+	7.0	7/PB1
276	Drilled well	Industry (factory "Tane Galevski")		Kichevo	Kichevo city	Kichevo	Kichevo	Treska, Gostivar	4596180	7497500	610	Compacted pliocenic sand and gravel	Pliocenic	5.60E-06	5.7	2	30.0	300	-8.00	2.0		5.0	51.0	+	+	7.0	7/PB2
278	Piezometer	Piezometer	Schist below 8.5 m	Samokov	Samokov town	Makedonski Brod	Samokov	Treska, Gostivar	4613750	7513850	92.2	Compacted alluvial sand and gravel	Alluvial	5.70E-04	4.5		10.0	63.5	-1.00								108/HD-1
281	Borehole			East from Lukajca	Lukovica village	Tetovo	Zhelino	Treska, Gostivar	4639350	7516500	500	Karstic marble					143.5									2/147k	
282	Borehole			Matka lake	Matka lake (village)	Skopje	Saraj	Treska, Gostivar	4648100	7525100	390	Karstic marble					150.0									2/146k	
283	Dug well			Glumovo	Glumovo village	Skopje	Saraj	Treska, Gostivar	4648600	7525750	300	Compacted alluvial sand	Alluvial	8.00E-04			5.0	600	-4.50	0.3		0.3			14	1/25	
284	Dug well			Bukovikj	Bukovik village	Skopje	Saraj	Treska, Gostivar	4646750	7520200	400	Compacted alluvial sand	Alluvial	1.40E-03			4.40	1600	-2.75	3.70		1.2			14	1/31	
285	Borehole			Zhelino-Glumovo	Zhelino & Glumovo village	Skopje	Zhelino Saraj	Treska, Gostivar	4647475	7509950	548.3	Compacted marble debris					60.0	101	-41.00							1,2/35	
286	Dug well			Bojane	Bojane	Skopje	Saraj	Treska, Gostivar	4650600	7516300	500	Compacted marble debris		1.00E-04			12.06	700	-11.46	0.1		0.3			13	1/21	
287	Group of boreholes		Schist below 5.0 m	Lukovo Pole	Lukovo Pole field	Gostivar	Mavrovi Anovi	Radika, Debar	4634300	7568400	1520	Compacted alluvial gravel	Alluvial		5.0		40.0		-1.00								137
289	Drilled well	Industry (for hotel "Bunec")		Mavrovo	Mavrovo settlement	Gostivar	Mavrovi Anovi	Radika, Debar	4619500	7481000	1300	Karstic marbled limestone		6.50E-05	113.6		113.6	200	-71.50	5.8		14.28	450.0	+	-	9 7.4	144
290	Borehole			Mavrovo	Mavrovo settlement	Gostivar	Mavrovi Anovi	Radika, Debar	4619500	7482000	1301	Karstic marbled limestone					40.0		-26.00							144	
291	Group of boreholes			Leunovo	Leunovo village	Gostivar	Mavrovi Anovi	Radika, Debar	4617250	7483780	1230	Shale					171.0									6/2	
292	Borehole			Leunovo-Nikiforovo	Leunovo & Nikiforovo village	Gostivar	Mavrovi Anovi	Radika, Debar	4617000	7482750	1240	Shale					60.0									6/4	
293	Borehole			Nikiforovo	Nikiforovo village	Gostivar	Mavrovi Anovi	Radika, Debar	4615680	7481400	1240	Shale					60.0									6/5 and 6	
294	Group of boreholes		Schist below 3.0 m	Tresonche	Tresonche village	Gostivar	Rostuse	Radika, Debar	4602400	7476400	1000	Compacted alluvial gravel	Alluvial		3.0		80.0		-1.50								175
295	Drilled well	Industry (for hotel "Bunec")		Kosovrasti	Kosovrasti village	Debar	Debar	Radika, Debar	4599700	7465700	600	Compacted torrential bed load					20.0	400	-1.80	6.0		12.0				174	
296	Drilled well	W/S for Debar	5 drilled wells; B-3 Q= 12.1; S= 10.7	Debar	Debar city	Debar	Debar	Radika, Debar	4596720	7462100	580	Compacted pliocenic sand and gravel	Pliocenic				35.0	400	-5.90	12.5	25	11.2				10/B-2	
297	Group of drilled wells	W/S for Debar	B-4; Q= 12.1; S= 10.5	Debar	Debar city	Debar	Debar	Radika, Debar	4596800	7461600	580	Compacted pliocenic sand and gravel	Pliocenic				35.7	400	-5.90	29.0	52	17.2				10/B-5	
298	Dug well			Bomovo	Bomovo village	Debar	Debar	Radika, Debar	4596000	7457000	520	Compacted alluvial gravel and sand	Alluvial	2.60E-05			15.3	1000	-4.70	0.2		7.7			13	1/67	
299	Borehole		Quartzite below 92.0 m; Marly clay 57.0-92.0 m	Spas	Spas village	Debar	Debar	Radika, Debar	4601100	7547000	560	Compacted pliocenic sand and gravel	Pliocenic	1.00E-05	1.00E-03	14.5	92.0		-7.60								1
300	Dug well			Papradnik Mali	Mal Papradnik village	Debar	Centar Zhupa	Crni Drim, Ohrid	4592350	7462600	700	Compacted pliocenic sand and gravel	Pliocenic	3.10E-04			14.37	900	-11.23	0.5		2.9			12	1/68	
301	Dug well			Pralenik	Pralenik village	Debar	Centar Zhupa	Crni Drim, Ohrid	4590600	7462700	700	Compacted pliocenic sand and gravel	Pliocenic	4.70E-05			5.1	700	-4.72	0.12		0.18			14	1/69	

Table 1(13/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.	
302	Group of research boreholes			Pesochanska reka (river)	Pesocani village	Ohrid	Belchishta	Cmi Drim, Ohrid	4778650	7479100	1135.1	Fractured limestone					20.0		-8.30								15/D-1	
303	Dug well			Izdeglavje	Izdeglavje village	Ohrid	Belchishta	Cmi Drim, Ohrid	4577050	7485800	800	Compacted quarternary sand and gravel	Quaternary	9.60E-05			5.45	750	-3.55	0.68		1.75			14		1/70	
304	Dug well			Belchishte	Belchishta town	Ohrid	Belchishta	Cmi Drim, Ohrid	4573250	7486250	775	Compacted quarternary sand and gravel	Quaternary	1.80E-02			4.21	600	-2.94	4.3		0.32			14		1/73	
305	Dug well			Zlesti	Zlesti	Ohrid	Belchishta	Cmi Drim, Ohrid	4570800	7485000	810	Compacted quarternary sand and gravel	Quaternary	8.00E-03			12.02	850	-7.40	2.5		9.3			12		1/76	
306	Dug well			Botun	Botun village	Ohrid	Belchishta	Cmi Drim, Ohrid	4571500	7480550	780	Compacted quarternary sand and gravel	Quaternary	3.20E-03			5.75	1000	-4.75	3.0		0.8			14		1/75	
307	Dug well			Mesheishta	Mesheishta village	Ohrid	Mesheishta	Cmi Drim, Ohrid	4566250	7483750	785	Compacted quarternary lake sand and gravel	Quaternary	1.00E-03			6.3	600	-4.53	1.8		1.7			14		1/82	
308	Dug well			Delgozhda	Delgozhda village	Struga	Delogozdi	Cmi Drim, Ohrid	4568300	7477200	775	Compacted quarternary lake gravel sand	Quaternary	2.40E-04			5.55	900	-2.48	0.5		0.8			14		1/80	
309	Dug well			Dabovjane	Dobovjani village	Struga	Veleshta	Cmi Drim, Ohrid	4569750	7471500	695	Compacted quarternary lake gravel sand	Quaternary	1.60E-03			3.35	800	-2.86	0.8		0.3			14		1/78	
311	Dug well			Dolna Belica	D. Belica village	Struga	Struga	Cmi Drim, Ohrid	4563500	7469750	720	Compacted quarternary sand	Quaternary	3.90E-04			17.0	700	-11.07	1.0		5.0			12		1/87	
312	Artesian borehole			Lazjani	Lozani village	Struga	Struga	Cmi Drim, Ohrid	4565000	7473000	695	Compacted quarternary sand	Quaternary				13.0	152.4/101.6	+	4.00	0.46					13		1/13
313	Borehole		Clayey sand 51.0-56.0 m; Limestone debris below 74.0 m	Livada	Livada village	Struga	Delogozdi	Cmi Drim, Ohrid	4565000	7477100	708	Compacted sand		1.00E-03		31	4	100.0		-2.10								1
314	Dug well			Volino	Volino village	Ohrid	Mesheishta	Cmi Drim, Ohrid	4564250	7478780	710	Compacted quarternary lake gravel sand	Quaternary	1.30E-02			8.25	900	-6.25	7.0		0.52			14		1/86	
315	Artesian borehole			Draslajca	Draslajca village	Struga	Struga	Cmi Drim, Ohrid	4563700	7474950	698	Compacted quarternary lake gravel sand	Quaternary				12.0	152.4/101.6	+	4.00	0.43				14		1/43/7	
316	Artesian borehole			Draslajca	Draslajca village	Struga	Struga	Cmi Drim, Ohrid	4563700	7474850	698	Compacted quarternary lake gravel sand	Quaternary				12.0	152.4/101.6	+	4.00	0.4				13.5		1/8	
317	Artesian borehole			Moroishta	Moroishta village	Struga	Struga	Cmi Drim, Ohrid	4652100	7475200	697	Compacted quarternary lake gravel sand	Quaternary					152.4/101.6	+	2.00	0.3				14		1/10	
318	Artesian borehole			Misleshevo	Misleshevo village	Struga	Struga	Cmi Drim, Ohrid	4560200	7476000	700	Compacted quarternary lake gravel sand	Quaternary				13.0	152.4/101.6	+	2.20	0.21				13		1/9	
319	Artesian borehole		All	Struga				Ohrid	4561920	7473450	794	Compacted Quarternary sand	Quaternary				100	501	+	2.00	1				12.5	6.95		
319	Group of Artesian Boreholes		Artesian horizon 78.0-86.0 m; 7 drillholes	Struga	Struga city	Struga	Struga	Cmi Drim, Ohrid	4559830	7473430	695	Compacted pliocenic sand	Pliocenic				120.0	51	+	3.00	0.5	0.2						176
321	Dug well			Radolishta	Radolista village	Struga	Struga	Ohrid Lake, Ohrid	4558000	7468750	750	Compacted quarternary lake sand	Quaternary	7.70E-04			10.95	900	-9.80	0.750		0.9			14		1/96	
322	Dug Ringed Well	W/S for border watch-tower		Kjafasan-Struga	Kjafasan border watch tower	Struga	Struga	Ohrid Lake, Ohrid	4549900	7467650	1000	Compacted slope debris					11.6	1000	-8.00	0.9		1.1		NO2	7.3		20/B-1	
323	Piezometer	Piezometer	Schist below 48.5 m	Ohrid	Ohrid city	Ohrid	Ohrid	Ohrid Lake, Ohrid	4550370	7484790	726.97	Karstic limestone	Karstic limestone				53.0		-21.00								12/D-1	
325	Group of drilled wells	W/S for Ohrid	B-2; Q= 50.0 l/s	Biljanini izvori, Ohrid	Biljanini springs	Ohrid	Ohrid	Ohrid Lake, Ohrid	4551300	7485070	703.43	Karstic limestone	Karstic limestone	1.50E-03			50.0	300	-1.25	50.0	100	1.84	40.0	+	+		12/B-1	
327	Piezometer	Piezometer		Biljanini izvori, Ohrid	Biljanini springs	Ohrid	Ohrid	Ohrid Lake, Ohrid	4552260	7485600	749.64	Karstic limestone	Karstic limestone				100.0										12/D-5	
328	Artesian borehole			Ohrid	Ohrid city	Ohrid	Ohrid	Ohrid Lake, Ohrid	4552200	7484250	700	Compacted quarternary lake sand	Quaternary				152.4/101.6	+	2.40	0.4					14		1/12	

Table 1(14/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M')	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.	
329	Artesian borehole			Ohrid	Ohrid city	Ohrid	Ohrid	Ohrid Lake, Ohrid	4552800	7483000	700	Compacted quarternary lake sand	Quaternary					152.4/101.6	+ 2.80	0.4							1/11	
330	Drilled Well	Industry (factory "Bratstvo")		Ohrid	Ohrid city	Ohrid	Ohrid	Ohrid Lake, Ohrid	4554450	7484500	710	Compacted quarternary lake sand	Quaternary	4.00E-04			36.0	300	-2.27	16.0		11.08	50.0				21/B-1	
331	Dug Ringed Well	W/S for former yugoslav army	2 wells	Ohrid	Ohrid city	Ohrid	Ohrid	Ohrid Lake, Ohrid	4554200	7484350	799	Compacted quarternary lake sand	Quaternary	9.00E-04	3.6	2	10.0	1500	-4.20	10.0	17.5	1.25		+	+	7.2	18/B-2	
331	Dug well		B-3, Q=3.0; B-4, Q=14.0; B-5, Q=10.0; B-6, Q=13.0; B-7,	Kasarna				Ohrid	4540500	7484700	735	Compacted alluvial sand	Alluvial	3.00E-04	5		8	1500		5.4			621.9	+	+	7.2		
332	Group of drilled wells	Industry (Heroj Toza Dragovikj)		Toza Dragovikj", Ohrid	Ohrid city	Ohrid	Ohrid	Ohrid Lake, Ohrid	4554946	7484769	716.2	Compacted quarternary lake sand	Quaternary	3.00E-05		13	2	45.0	300	-6.40	14.0	80	6.7	91.0	+	+		16/B-2
333	Borehole			Debelo Polje, Ohrid	Debelo Pole field	Ohrid	Ohrid	Ohrid Lake, Ohrid	4556600	7485400	730	Compacted quarternary lake sand	Quaternary	1.00E-05	1.00E-03	8.5	3	60.0		-3.50							1	
334	Drilled Well			Kosel	Kosel town	Ohrid	Kosel	Ohrid Lake, Ohrid	4557600	7486100	742	Compacted quarternary lake sand	Quaternary	4.40E-04				20.0	400	-9.50	11.0		3.95	30.4	+		7.4	22
335	Drilled Well			Dolno Lakocherej	D.Lakocherej village	Ohrid	Ohrid	Ohrid Lake, Ohrid	4556700	7483000	706	Compacted quarternary lake sand	Quaternary	4.30E-05		25	2	32.0	400	-3.06	25.0		3.1					19
336	Borehole		Marly clay below 41.0 m	Dolno Lakocherej	D.Lakocherej village	Ohrid	Ohrid	Ohrid Lake, Ohrid	4556600	7483100	705	Compacted quarternary lake sand	Quaternary	1.00E-03		27	5	60.5		-3.50								1
337	Dug Well			Sveti Razmo-Ohrid	St. Erazmo monastery	Ohrid	Ohrid	Ohrid Lake, Ohrid	4555450	7480400	700	Compacted quarternary lake gravel sand	Quaternary	1.70E-03				3.5	700	-1.10	1.1		0.8			14	1/99	
338	Subartesian Borehole			Podmolje	Podmole village	Ohrid	Ohrid	Ohrid Lake, Ohrid	4557550	7474480	695	Compacted quarternary lake gravel sand	Quaternary			9.6		10.8	51	-2.80	5.0		3.42				8.7	17
339	Artesian borehole		3 artesian horizons: 16-22, 26-35, 50-60 m	Ohrid airport	Ohrid airport	Ohrid	Ohrid	Ohrid Lake, Ohrid	4558100	7479400	700	Compacted quarternary lake gravel sand	Quaternary			25	3				0.1	0.7						1
340	Drilled Well			Oravnik	Orovnik village	Ohrid	Mesheishta	Ohrid Lake, Ohrid	4558600	7479200	700	Compacted quarternary lake gravel sand	Quaternary	5.90E-04		55.6	2	60.0	400		37.04		8.0	40.8			7.8	14/B-2
341	Piezometer	Piezometer	1 year monitoring	Srbjani	Srbjani village	Kichevo	Drugovo	Treska, Krushevo	4594240	7497370	608	Compacted alluvial gravel and sand	Alluvial					20.0	50.8	-3.65							157/28	
342	Dug Ringed Well			Cer	Cer village	Kichevo	Drugovo	Crna Reka, Krushevo	4585300	7505000	1000	Compacted alluvial gravel and sand	Alluvial			4.0				-6.00								177
343	Group of Piezometers	Piezometer		Kochishte	Kochishte village	Krushevo	Demir Hisar	Crna Reka, Krushevo	4577900	7515000	717	Compacted alluvial gravel and sand	Alluvial					10.0	50.8	-0.55							13/P-1	
344	Dug Well			Kochishte	Kochishte village	Krushevo	Demir Hisar	Crna Reka, Krushevo	4577900	7515300	718	Compacted alluvial gravel and sand	Alluvial					10.0		-1.00	12.4		4.77	42.5			13/B-1	
345	Group of Drilled Wells	Industry (factory "Zheleznik")	OB-2, Q= 15.0 l/s	Sapotnica	Sopotnica village	Demir Hisar	Sopotnica	Crna Reka, Krushevo	4571900	7513200	656	Compacted alluvial gravel and sand	Alluvial	1.00E-04		17.4		25.0	300	-1.50	15.0	30	104.0	+	+	11.8	6.8	39/OB-1
346	Subartesian Borehole		Subartesian horizon 17.0-27.0 m; Sshist below 70.0 m	Murgashevo	Murgashevo village	Demir Hisar	Demir Hisar	Crna Reka, Krushevo	4564320	7519000	635	Compacted pliocenic sand and gravel	Pliocenic			10.0		72.0		-2.00								151
347	Dug Well			Velmej	Velmej village	Ohrid	Belchishta	Crni Drim, Krushevo	4572750	7492000	800	Compacted proluvial sand	Proluvial	4.60E-04				9.67	860	-8.37	0.6		1.15			13	1/74	
348	Dug Well			Leshani	Leshani village	Ohrid	Belchishta	Crni Drim, Krushevo	4570300	7488750	800	Compacted alluvial gravel	Alluvial	1.00E-02				5.8	720	-1.75	5.0		0.55			14	1/77	
349	Dug Well			Kosel	Kosel town	Ohrid	Kosel	Crni Drim, Krushevo	4558750	7486200	740	Compacted alluvial gravel	Alluvial	2.00E-03				4.6	1000	-3.90	2.5		0.6			14	1/95	
350	Group of Ringed Wells	W/S for Resen	B2, Q= 8.0 l/s	Resen	Resen city	Resen	Resen	Prespa Lake, Krushevo	4552850	7501800	1000	Compacted alluvial gravel	Alluvial					6.0	2000	-8.00							178/B1	
351	Group of Artesian Boreholes			Resen	Resen city	Resen	Resen	Prespa Lake, Krushevo	4550180	7502700	880	Compacted pliocenic sand and gravel	Pliocenic								2.0					13	6.4	154/66



Table 1(15/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.
352	Dug Well			Sopotsko	Sopotsko village	Resen	Resen	Prespa Lake, Krushevo	4549250	7505750	920	Compacted quaternary lake sand	Quaternary	2.60E-05			4.3	800	-3.70	0.21	0.4				14	1/105	
353	Artesian borehole			Resen	Resen city	Resen	Resen	Prespa Lake, Krushevo	4549800	7501700	785	Compacted pliocenic sand and gravel	Pliocenic				152.4/101.6	64	+ 0.50	1.1					13	1/14	
354	Artesian borehole			Resen	Resen city	Resen	Resen	Prespa Lake, Krushevo	4548300	7501700	785	Compacted pliocenic sand and gravel	Pliocenic				180.0	64	+ 8.00	1.1					12	1/15	
355	Artesian borehole		Artesian horizon 55.0-58.0 m and 89.0-110.0 m	Gorno Dupeni	G. Dupeni village	Resen	Resen	Prespa Lake, Krushevo	4546600	7498600	910	Compacted pliocenic sand and gravel	Pliocenic	1.00E-05	25	2	110.0	51		0.3							1
356	Artesian borehole		Pliocene below 35m, Schist below 158m, artesian horizon 152-	Resen	"Prespansko Jabolko"	Resen	Resen	Prespa Lake, Krushevo	4546450	7501500	871.3	Compacted pliocenic sand and gravel	Pliocenic				161.0		-2.50								155/1
357	Borehole		Neogene below 23.0 m	Kozjak	Kozjak village	Resen	Resen	Prespa Lake, Krushevo	4546120	7503800	868	Compacted quaternary lake sand and gravel	Quaternary	1.00E-05	1.00E-03	12.0	100.0		-0.90								1
358	Dug Well			Podmochani	Podmochani village	Resen	Resen	Prespa Lake, Krushevo	4542800	7504750	890	Compacted quaternary lake sand and gravel	Quaternary	1.00E-03			4.88	650	-2.34	1.6	2.16				13	1/113	
359	Group of Ringed wells	Industry (fruits factory "Prespansko Jabolko")	B2, Q= 10.0; B3, Q= 12.0	Carev Dvor	Carev Dvor village	Resen	Resen	Prespa Lake, Krushevo	4544700	7501200	860	Compacted quaternary lake sand and gravel	Quaternary				30.0	350	-12.00	4.0							179/B-1
360	Dug Well			Drmeni	Drmeni village	Resen	Resen	Prespa Lake, Krushevo	4543310	7500500	850	Compacted quaternary lake sand and gravel	Quaternary	4.20E-04			3.7	800	-1.50	0.71	2.03				14	1/111	
361	Dug Well			Dolno Perovo	D. Perovo village	Resen	Resen	Prespa Lake, Krushevo	4541250	7499500	845	Compacted quaternary lake sand and gravel	Quaternary	4.60E-04			2.4	800	-1.50	0.6	0.8				14	1/114	
362	Dug Well			Shurlenci	Shurlenci village	Resen	Resen	Prespa Lake, Krushevo	4543000	7495000	960	Compacted quaternary lake sand and gravel	Quaternary	2.80E-04			4.61	700	-1.02	0.42	2.65				13	1/112	
363	Group of Piezometers	Piezometer	Schist below 3.0 m	"Strezhevo" dam	Strezhevo village	Bitola	Capari	Cma Reka, Krushevo	4555498	7517345	749.7	Fractured shale					88.0	64	-22.41							183	
364	Group of Drilled Wells	W/S for Bitola	4 wells with yield Q= 140.0 l/s	Novo Zmimovo	Novo Zmimovo village	Bitola	Kukurechani	Cma Reka, Krushevo	4653000	7526000	596.02	Compacted alluvial gravel and sand	Alluvial	1.30E-04	31.6		50.0	400	-2.00	30.0	140	6.43	++	+	7.2	23/EB-2	
365	Group of Drilled Wells	W/S for Bitola	OB2, Q= 24.0	Novo Zmimovo	Novo Zmimovo village	Bitola	Kukurechani	Cma Reka, Krushevo	4653100	7526300	594.2	Compacted alluvial gravel and sand	Alluvial	1.20E-04	38.6		48.0	350	-3.00	21.2	45	5.08	++	+	7.2	23/OB-1	
366	Artesian borehole			Mazhuchishte	Mazhuchishte village	Prilep	Prilep	Cma Reka, Prilep	4584080	7537400	615	Compacted pliocenic sand and gravel	Pliocenic				134.4	51	+ 4.60	0.42					15.5	7	151/20
367	Artesian borehole			Krusheani	Krusheani village	Prilep	Krivogashtani	Cma Reka, Prilep	4574150	7529400	598	Compacted pliocenic sand and gravel	Pliocenic				115.5	51	+ 2.70	0.12					14	6	151/6
368	Artesian borehole			"Slavej" Farming and Industrial	Slavej villag	Prilep	Krivogashtani	Cma Reka, Prilep	4576380	7534200	603	Compacted pliocenic sand and gravel	Pliocenic				161.6	51	+ 14.40	2.8					15	7	151/13
369	Artesian borehole			Aleksandrovo		Prilep	Krivogashtani	Cma Reka, Prilep	4577260	7534400	603	Compacted pliocenic sand and gravel	Pliocenic				131.4	51	+ 4.60	0.22					15	7	151/17
370	Artesian borehole			Golemo Konjare	Golemo Konjare village	Prilep	Prilep	Cma Reka, Prilep	4577200	7536420	608	Compacted pliocenic sand and gravel	Pliocenic				133.36	76	+ 6.10	0.7					15	7	151/16
371	Artesian borehole			Golemo Konjare	Golemo Konjare village	Prilep	Prilep	Cma Reka, Prilep	4578210	7537360	608	Compacted pliocenic sand and gravel	Pliocenic				134.16	51	+ 13.80	0.48					15	7	151/14
372	Artesian borehole			Malo Konjare	Malo Konjare village	Prilep	Prilep	Cma Reka, Prilep	4577000	7539000	613	Compacted pliocenic sand and gravel	Pliocenic				136.11	51	+ 8.10	0.7					15	7	151/15
373	Group of Drilled Wells	W/S for Prilep	11 wells with various yield; Q= 4.0-12.0 l/s	Malo Konjare	Malo Konjare village	Prilep	Prilep	Cma Reka, Prilep	4578550	7541100	624	Compacted quaternary gravel and sand	Quaternary				15.0	300		50							180
374	Artesian borehole			Bojani		Prilep	Prilep	Cma Reka, Prilep	4573390	7543480	630.5	Compacted pliocenic sand and gravel	Pliocenic				139.4	76	+ 8.10	1.90					4.5	7	151/19
375	Artesian borehole	Industry (factory "partizan")		Prilep	Prilep city	Prilep	Prilep	Cma Reka, Prilep	4576210	7543360	649	Compacted pliocenic sand and gravel	Pliocenic				114.7	51	+ 4.90	0.38					14	7	151/18

Table 1(16/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.	
376	Subartesian Borehole			Novo Lagovo	Novo Lagovo village	Prilep	Prilep	Cma Reka, Prilep	4574240	7543360	642	Compacted pliocenic sand and gravel	Pliocenic		10.0		114.0	51	-1.20	0.7							151	
377	Drilled Well	W/S for Mlada Naselba settlement	Thickness of the slope sediments down to 50 m	Novo Lagovo	Novo Lagovo village	Prilep	Prilep	Cma Reka, Prilep	4574050	7543700	640	Compacted quarternary gravel and sand	Quaternary		1.5		1200	310	-2.80	0.110		2.7					38	
378	Artesian borehole			Kadino Selo	Kadino Selo village	Prilep	Prilep	Cma Reka, Prilep	4573470	7535050	612	Compacted pliocenic sand, rarely gravel	Pliocenic				123.36	51	+ 5.74	0.42				+	14	7	151/4	
379	Artesian borehole			Mirche Acev	Mirce Acev village	Prilep	Krivogashtani	Cma Reka, Prilep	4575200	7535300	603	Compacted pliocenic sand, rarely gravel	Pliocenic				159.10	51	+ 16.40	1.83				+	15	7	151/12	
380	Artesian borehole			Kadino Selo-Borotina	Kadino Selo village, Borotina	Prilep, Prilep	Prilep, Krivogashtani	Cma Reka, Prilep	4572360	7536200	603	Compacted pliocenic sand, rarely gravel	Pliocenic				117.4	76	+ 5.75	0.22						13	6	151/5
381	Group of artesian boreholes			Alinci	Alinci village	Prilep	Topolchani	Cma Reka, Prilep	4569370	7539420	615	Compacted pliocenic sand, rarely gravel	Pliocenic				13.53	51	+ 4.62	0.62						13.8	7	151/1
382	Artesian borehole			Erekovci	Erekovei village	Prilep	Topolchani	Cma Reka, Prilep	4563390	7540260	597	Compacted pliocenic sand, rarely gravel	Pliocenic				83.38	51	+ 2.92	0.34						14	7	151/2
383	Artesian borehole			Musinci	Musinci village	Bitola	Dobrushevo	Cma Reka, Prilep	4558820	7545150	620	Compacted pliocenic sand, rarely gravel	Pliocenic				35.29	51	+ 3.21	0.6						14	7	151/3
384	Borehole			Dobrushevo	Dobrushevo village	Bitola	Dobrushevo	Cma Reka, Prilep	4558500	7541000	595	Compacted quarternary gravel and sand	Quaternary				136.0											46/1
385	Borehole			North from Mogila	Mogila village	Bitola	Mogila	Cma Reka, Prilep	4553775	7530950	585	Compacted quarternary gravel and sand	Quaternary				17.2											46/3
386	Drilled Well			Radobor	Radobor village	Bitola	Mogila	Cma Reka, Prilep	4552301	7535005	580.34	Compacted quarternary-pliocenic gravel and sand	Quaternary-Pliocene	1.50E-04			30.0	350	-2.00	12.6		11.3	90.0	+	-	13	7.4	24/A1
387	Artesian borehole		Artesian horizon on 76.5 m	Tm Radobor	Tm, Radobor	Bitola	Bitola, Mogila	Cma Reka, Prilep	4551300	7536600	580	Compacted pliocenic sand and gravel	Pliocenic				150.0		+ 14.00									151/10
388	Artesian borehole		Artesian horizon on 90.0 m	Tm	Tm village	Bitola	Bitola	Cma Reka, Prilep	4547750	7535300	590	Compacted pliocenic sand and gravel	Pliocenic				90.0		+ 12.00	4.0								151/9
389	Group of artesian boreholes		3 artesian and 1 subartesian horizons	Aglarci	Aglarci village	Bitola	Novaci	Cma Reka, Prilep	4548500	7541150	595.01	Compacted pliocenic sand and gravel	Pliocenic	1.80E-04			63.0	51	+ 3.00	2.25	4.5	2.72	7.5	+		14.5	7.2	25/A4
390	Group of Drilled wells	Industry (coal mines)	Alluvium below 27.0 m. Roof phreatic yield (artesian) down	Suvodol	Suvodo village	Bitola	Novaci	Cma Reka, Prilep	4546794	7942572	610	Compacted alluvial gravel and sand	Alluvial	2.60E-05	5.20E-06	10.0	61.0	300	-5.20	0.23		27.70						36/OB-5
391	Group of Drilled wells	Industry (coal mines)	38 wells with total yield Q= 234.0 l/s	Suvodol	Suvodo village	Bitola	Novaci	Cma Reka, Prilep	4546650	7542700	610	Compacted alluvial gravel and sand	Alluvial				108.0	210	-26.91	13.33		21.5						37/47
392	Borehole			Karamani	Karamani village	Bitola	Bitola	Cma Reka, Prilep	4547100	7533650	575	Compacted pliocenic sand and gravel	Pliocenic				97.8											46/1
393	Artesian borehole		Water contents CO2	Logovardi	Logovardi village	Bitola	Bitola	Cma Reka, Prilep	4544150	7534470	576	Compacted pliocenic sand and gravel	Pliocenic				77.2	76	+ 15.00	2.0						15	6.5	151/9
394	Drilled Well			Bitola	Bitola city	Bitola	Bitola	Cma Reka, Prilep	4543650	7530700	555	Compacted quarternary sand	Quaternary	8.80E-05			34.0	300	-2.50	11.94		4.09	364.0					26/B-1
395	Drilled Well	Industry (Brewery)		Bitola	Bitola city	Bitola	Bitola	Cma Reka, Prilep	4542150	7530550	550	Compacted quarternary sand	Quaternary	2.00E-05			25.0	312	-2.29	1.40		9.6	444					27
396	Artesian borehole			Ribarci-Novaci	Ribarci village, Novaci town	Bitola	Novaci	Cma Reka, Prilep	4547300	7539470	579	Compacted pliocenic sand and gravel	Pliocenic				59.7	76	+ 9.70	1.07						15	6.5	151/11
397	Borehole			Ribarci	Ribarci village	Bitola	Bitola	Cma Reka, Prilep	4541670	7540010	595	Compacted pliocenic sand and gravel	Pliocenic				13.5											46/1
398	Borehole	Industry (coal mines)		Mariovo (Besheishko Pole)	Beshishte village	Prilep	Vitolishte	Cma Reka, Prilep	4557000	7563000	790	Tufa limestone and onyx					145.0											146/58
399	Borehole	Industry (coal mines)		Mariovo (Besheishko Pole)	Beshishte village	Prilep	Vitolishte	Cma Reka, Prilep	4558000	7570000	962	agglomerate tuff					235.0											146/16

Table 1(17/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (ft)	No. of aquifers	Well depth (M')	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.	
400	Drilled Well			Marena	Marena village	Kavadarci	Kavadarci	Lower Vardar, Kavadarci	4597350	7586800	202	Compacted alluvial sand with gravel	Alluvial	3.50E-05	4	2	20.0	400	-3.00	4.5	10.7	10.0	Fe NO <sub>3</sub>	+	15	7.6	34	
401	Dug Well			Trstenik	Trstenik village	Kavadarci	Rosoman	Lower Vardar, Kavadarci	4592450	7586800	205	Compacted alluvial sand with gravel	Alluvial	2.90E-04	4	2	11.0	800	-10.00	0.32	0.71					15	8/23	
402	Artesian borehole		Subartesian watre	Timjanik	Timjanik village	Negotino	Negotino	Lower Vardar, Kavadarci	4592980	7590495	194.1	Compacted pliocenic sand and gravel	Pliocenic	5.70E-04			89.0	50.8	+	1.00						7.6	43/306	
403	Artesian borehole		Artesian horizon on 42.0 m in roff on coal	Dolno Disan	D. Disan village	Negotino	Negotino	Lower Vardar, Kavadarci	4588350	7591661	275.4	Compacted pliocenic sand and gravel	Pliocenic				113	50.8	+	1.00	0.05						43/312	
404	Artesian borehole			Dolno Disan	D. Disan village	Negotino	Negotino	Lower Vardar, Kavadarci	4589030	7594213	225.4	Compacted pliocenic sand and gravel	Pliocenic				50.0	50.8	+	1.00	0.05						43/301	
405	Group of Drilled wells		Paleogen below SB2, Q=3.5; SB3Q=30.0; SB4, Q=8.5	Dubrovo	Dubrovo village	Negotino	Negotino	Lower Vardar, Kavadarci	4597456	7591813	110.7	Compacted terrace gravel with sand		1.40E-04	13.0		16.0	300	-1.20	18.0	60	7.15	25.0	DH <sup>0</sup>	-	15.5	7	42/SB1
406	Group of Drilled wells		9 drilled holes with yield Q= 10.0-14.0	Dubrovo	Dubrovo village	Negotino	Negotino	Lower Vardar, Kavadarci	4592100	7597350	111	Compacted terrace gravel with sand		5.10E-04	8.75		12.0	625	-1.25	14.0	107	8.52	114					41/B1
407	Drilled Well	W/S for Tremnik		Tremnik	Tremnik village	Negotino	Negotino	Lower Vardar, Kavadarci	4591000	7597800	111	Compacted terrace gravel with sand					10.0	250	-1.30	10.0								181
408	Group of Drilled ringed wells	W/S for Demir Kapija	3 wells	Demir Kapija	Demir Kapija town	Negotino	Demir Kapija	Lower Vardar, Kavadarci	4585650	7604300	110	Compacted terrace gravel with sand					3.0	3000		6.0	20							181
409	Dug Well			Vožarci	Vožarci village	Kavadarci	Kavadarci	Lower Vardar, Kavadarci	4577800	7587650	161	Compacted terrace gravel with sand		6.00E-04			7.3	730	-6.00	0.26	0.82					17	8/28	
410	Group of Piezometers	Piezometer	Gneisses below 2.5 m	Galishite	Galishite village	Kavadarci	Kavadarci	Lower Vardar, Kavadarci	4571226	7572146	406	Fractured gneiss					60.0	50.8	-14.72							7	160/PS1	
411	Group of boreholes			Rzhanovo	Rzhanovo village	Kavadarci	Konopishte	Lower Vardar, Kavadarci	4558885	7583069	820	Fractured limestone					398.4		-282.00									91/S16
412	Group of artesian boreholes		B3, Q= 6.0 depth 150.0 m	Petralinci	Petralinci village	Strumica	Bosilovo	Strumichka Reka	4592850	8394100	220	Compacted pliocenic sand and gravel	Pliocenic		30	3	150.0			6.0								81/B1
413	Artesian borehole			Saraj-Petralinci	Saraj village - Petralinci village	Strumica	Bosilovo	Strumichka Reka	4592950	8393350	222	Compacted pliocenic sand and gravel	Pliocenic				156.6			1.2								82/4
414	Group of artesian boreholes		B11, Q= 0.2	Saraj	Saraj village - Petralinci village	Strumica	Bosilovo	Strumichka Reka	4593150	8392550	226	Compacted pliocenic sand and gravel	Pliocenic				150.0			0.9								81/B10
415	Artesian borehole			Piperovo	Piperovo village	Strumica	Vasilevo	Strumichka Reka	4592150	8389900	226	Compacted pliocenic sand and gravel	Pliocenic				49.0	80	-0.75	0.19								148/16
416	Artesian borehole			Prosenikovo	Prosenikovo village	Strumica	Strumica	Strumichka Reka	4591500	8390400	222	Compacted pliocenic sand and gravel	Pliocenic				52.0	76/68	+	1.87	0.4					14	148/15	
417	Artesian borehole			Dobrejci	Dobrejci village	Strumica	Strumica	Strumichka Reka	4591200	8388900	225	Compacted pliocenic sand and gravel	Pliocenic			59	59.0	88	+	2.12	0.91					23	148/17	
418	Artesian borehole			Sofilari	Dobrejci village	Strumica	Strumica	Strumichka Reka	4591250	8385750	232	Compacted pliocenic sand and gravel	Pliocenic				76/6	+	0.80	0.97						15	148/20	
419	Group of artesian boreholes	W/S for Strumica		Strumica	Strumica city	Strumica	Strumica	Strumichka Reka	4590500	8385700	229	Compacted pliocenic sand and gravel	Pliocenic	5.30E-06	1.80E-03	9	62.8	300	+	2.50	30.0	+	2.5	160.0	+	+	7.2	79/B1
420	Artesian borehole			Strumica	Strumica city	Strumica	Strumica	Strumica	4590600	8386150	228	Compacted pliocenic sand and gravel	Pliocenic				86/76	+	6.25	0.78						14	148/19	
421	Artesian borehole	W/S for military barracks		Strumica	Strumica city	Strumica	Strumica	Strumica	4590150	8386100	230.7	Compacted pliocenic sand and gravel	Pliocenic	3.60E-03	7.20E-04	11.5	3	72.0	300	+	1.00	11.0	13.0	100.0	+	+	7.5	74/B1
422	Group of artesian boreholes		Pumping on each artesian horizon; B4 subartesian horizon	Strumica	Strumica city	Strumica	Strumica	Strumica	4590000	8386400	230	Compacted pliocenic sand and gravel	Pliocenic	3.10E-05	1.60E-04	10.0	63.2	101	+	2.50	9.0							80/B3
423	Group of subartesian boreholes			Gradsko Baldovci	Gradsko Baldovci village	Strumica	Strumica	Strumica	4587750	8388550	220	Compacted pliocenic sand and gravel	Pliocenic			17.0	75.0	101										80/1,2,4,5

Table 1(18/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.
424	Artesian borehole	Agriculture (Farming Cooperative)		Kuklish	Kuklish village	Strumica	Kuklish	Strumica	4586150	8384000	228	Compacted pliocenic sand and gravel	Pliocenic		12.0		302.0	116		0.5							78/B1
425	Artesian borehole			Murtino	Murtino village	Strumica	Murtino	Strumica	4586420	8394050	211	Compacted pliocenic sand and gravel	Pliocenic				93.0	87/76	+	6.15	2.46				13	148/11	
426	Artesian borehole			Monospitovo	Monospitovo village	Strumica	Murtino	Strumica	4586150	8396050	207	Compacted pliocenic sand and gravel	Pliocenic				90.0	90	+	6.75	5.33				13	148/10	
427	Group of artesian boreholes		Artesian horizon on 71.0 m; B2, Q=1.0; B3, Q=5.0; B4,	Boriovo	Borievo village	Strumica	Bosilovo	Strumica	4587400	8397400	206	Compacted pliocenic sand and gravel	Pliocenic		6.0		83.4	146		11.0						17	83/B1
428	Artesian borehole			Ednokuchevo	Ednokuchevo village	Strumica	Bosilovo	Strumica	4588220	8394650	212	Compacted pliocenic sand and gravel	Pliocenic					300	+	7.20	5.0				14	148/12	
429	Artesian borehole			Rabovo	Robovo village	Strumica	Bosilovo	Strumica	4588750	8392500	215	Compacted pliocenic sand and gravel	Pliocenic				85.0	86/76	+	77.30	4.59				14	148/13	
430	Artesian borehole			Dabilje	Dabilje village	Strumica	Strumica	Strumica	4589450	8391200	221.8	Compacted pliocenic sand and gravel	Pliocenic				83.0	86/76	+	7.50	6.4				13	148/14	
431	Artesian borehole			Bosilovo	Bosilovo town	Strumica	Bosilovo	Strumica	4589250	8394400	213	Compacted pliocenic sand and gravel	Pliocenic				67.5	87/76	+	5.40	0.47				14	148/6	
432	Artesian borehole			Radovo	Radovo village	Strumica	Bosilovo	Strumic	4590650	8397400	220	Compacted pliocenic sand and gravel	Pliocenic				55.15	75/66	+	4.40	0.2				13	148/5	
433	Artesian borehole			Turnovo	Turnovo village	Strumica	Bosilovo	Strumica	4589000	8398650	212	Compacted pliocenic sand and gravel	Pliocenic				62.0	75/66	+	3.10	0.07				14	148/4	
434	Artesian borehole			Sekimik	Sekimik village	Strumica	Bosilovo	Strumica	4589400	8399700	218	Compacted pliocenic sand and gravel	Pliocenic				30.0	86/76	+	2.19	0.92				13	148/3	
435	Artesian borehole			Sekimik	Sekimik village	Strumica	Bosilovo	Strumica	4589350	8400150	219	Compacted pliocenic sand and gravel	Pliocenic				25.85	78/67	+	1.35	0.35				15	148/2	
441	Borehole			Pirava	Pirava village	Valandovo	Valandovo	Lower Vardar Strumica	4575720	8376000	60	Compacted quarternary sand and gravel	Quaternary		20.9	6	125.0			-4.30	1.4	5.0					149/8
442	Dug Well			Davidovo	Davidovo village	Gevgelija	Miravci	Lower Vardar Strumica	4752600	7620300	130	Compacted quarternary sand and gravel	Quaternary	4.50E-04			4.86	1000		-3.18	0.4	1.05				14	151/6
443	Dug Well			Miravci	Miravci village	Gevgelija	Miravci	Lower Vardar Strumica	4575100	7620600	300	Compacted quarternary sand and gravel	Quaternary	8.00E-04			5.5	1500		-4.00	0.23	1.09				14	151/3
444	Group of thermo-mineral boreholes		On depth 200 m t=68°C	Smokvica	Smokvica village	Gevgelija	Miravci	Lower Vardar Strumica	4567200	7625000	60	Fractured diabase and spilite					207.0	76		-0.84					68	92/C15	
445	Group of thermo-mineral boreholes		Quaternary down to 8.0 m	Smokvica	Smokvica village	Gevgelija	Miravci	Lower Vardar Strumica	4567458	7625756	55.5	Fractured diabase and spilite					65.0	76		-0.50					20-58?	6.2	40/C14
446	Drilled Well	Agriculture (greenhouses of Vinojug)		Prdejci	Prdejci village	Gevgelija	Gevgelija	Lower Vardar Strumica	4562600	7625000	70	Compacted terrace gravel and sand		1.40E-04	26.2		41.0	300		-17.50	5.2	4.89	458.0				77/B2
448	Dug Well		B2 depth 100 m. Waterbearing horizon 33.0-50.0 with low 4 wells. Diabase below 48.6 m, S1Q=48.0, S2=45, S3=55,	Gornichet	Gornichet village	Gevgelija	Gevgelija	Lower Vardar Strumica	4557900	7621300	140	Compacted alluvial gravel and sand	Alluvial	1.60E-04			7.08	1000		-3.50	0.41	2.77				14	151/4
449	Group of drilled wells			Gevgelija	Gevgelija city	Gevgelija	Gevgelija	Lower Vardar Strumica	4554900	7624150	89	Compacted alluvial gravel and sand	Alluvial		38.0		49.0	600		-11.42	55.00	205	1.50				128/C4
450	Dug ringed well	W/S for Gevgelija		Gevgelija	Gevgelija city	Gevgelija	Gevgelija	Lower Vardar Strumica	4557600	8375700	47.9	Compacted alluvial gravel and sand	Alluvial		6.0		10.6	4000		-1.00	90.0	7.4		+	+		127
451	Group of Piezometers	Piezometer		Gevgelija	Gevgelija city	Gevgelija	Gevgelija	Lower Vardar Strumica	4557600	8375700	150	Compacted alluvial gravel and sand	Alluvial	1.00E-05	14.0		21.0	50.8		-1.53							90/C3
452	Group of Piezometers	Piezometer	Diabase below 14.0 m. Field is poor with water	Selemlj	Selemlj village	Gevgelija	Bogdanci	Lower Vardar Strumica	4557400	8384450	150	Compacted alluvial gravel and sand	Alluvial				46.0	50.8		-2.00							89
453	Piezometer	Piezometer		Mrdaja (Sretenovo)	Sretenovo village	Gevgelija	Star Dojran	Dojran Lake Strumica	4559700	8394350	148.5	Compacted lake quarternary clayey sand with boulders	Quaternary				21.0	50.8		-1.80					16	7.8	87,M-1

Table 1(19/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.			
454	Piezometer	Piezometer	Schist below 5.0 m	Sretenovo	Sretenovo village	Gevgelija	Star Dojran	Dojran Lake Strumica	4560000	8393600	148.7	Compacted lake quarternary clayey sand with boulders	Quaternary				11.0		-2.00						15	7.8	87			
455	Piezometer	Piezometer	Schist below 19.5 m	Star Dojran	Star Dojran town	Gevgelija	Star Dojran	Dojran Lake Strumica	4561100	8393000	148.1	Compacted lake quarternary clayey sand with boulders	Quaternary				25.0		-1.10						16	7.6	87			
456	Drilled Well	W/S for Dojran	B2 additional captage	Deribash	Deribash area	Gevgelija	Star Dojran	Dojran Lake Strumica	4561000	8392000	249	Karstic marble		3.20E-03			96.5	320	-14.64	62.5		1.42		+	+	7.2	85/B1			
457	Artesian borehole	W/S for Children resort	Drillhole SH2 untill the well is artesian (preasure) Q= 2.5	Nikolikj	Nikolik village	Gevgelija	Star Dojran	Dojran Lake Strumica	4568750	8395100	165	Compacted neogene gravel and sand	Neogene	1.60E-04		32	4	90.0	300	+	5.00	10.0		22.2	1230	+	+	17	7.4	86
458	Artesian borehole	Industry (wine factory ("Vinojug"))		Furka	Furka village	Gevgelija	Star Dojran	Lower Vardar Strumica	4567400	8387000	180	Compacted quarternary gravel and sand	Quaternary	1.00E-03		14.0		30.0	300		20.0		18.0	104.0	+		15.5	7.5	87/5	
461	Borehole			Kravari	Kravari village	Bitola	Bistrica	Crna Reka, Florina	4539200	7532400	586	Neogene	Neogene				100.0											46		
462	Borehole			Bistrica	Bistrica town	Bitola	Bistrica	Crna Reka, Florina	4537200	7531100	610	clay					21.6											46		
463	Borehole			Optichari	Optichari village	Bitola	Bistrica	Crna Reka, Florina	4537900	7535280	576	Neogene	Neogene				120.0											46		
464	Artesian borehole			Gneotino	Gneotino village	Bitola	Novaci	Crna Reka, Florina	4530000	7541200	580	Compacted pliocenic sand and gravel	Pliocenic				68.52	76.2	+	12.68	1.23					15	6.5	151/10		
465	Artesian borehole			Sredno Egri	Egri village	Bitola	Bistrica	Crna Reka, Florina	4535200	7539100	579	Compacted pliocenic sand and gravel	Pliocenic				59.53	76.2	+	19.80	10.6				+		15	6.5	151/8	
466	Borehole			Oleveni	Oleveni village	Bitola	Bistrica	Crna Reka, Florina	4535500	7530600	620	Compacted quarternary gravel and sand with clay	Quaternary				24.0											46/2		
467	Borehole			Zhabeni	Zhabeni village	Bitola	Bistrica	Crna Reka, Florina	4533700	7533400	582	Neogene	Neogene				132.0											46/1		
468	Borehole			Lazhec	Lazec village	Bitola	Bistrica	Crna Reka, Florina	4529800	7532500	596	Neogene	Neogene			46	4	144.0										46		
469	Artesian borehole	Industry (mineral water factory "Peliste")	Mineral water. Bottling production	Medzhitlija	Medzhitlija village	Bitola	Bistrica	Crna Reka, Florina	4531600	7531600	585	Compacted pliocenic sand and gravel	Pliocenic				90.0			5.0							14.5	7.2	151/3	
470	Artesian borehole		Mineral water with free CO2	Kremenica	Kremenica village	Bitola	Bistrica	Crna Reka, Florina	4531300	7539200	588	Compacted pliocenic sand and gravel	Pliocenic				57.0	76.2	+	7.00	4.5							151/2		
471	Artesian borehole	W/S for railway station	Contents of free CO2	Kremenica	Kremenica village	Bitola	Bistrica	Crna Reka, Florina	4530100	7539300	589	Compacted pliocenic sand and gravel	Pliocenic				74.7	76.2	+	10.00	1.15				+		15	6.5	151/7	
472	Artesian borehole		Artesian hor. On 92.0 m. B4 existing only as a hole. Water	Bach	Bach village	Bitola	Bach	Crna Reka, Florina	4532700	7546800	580	Compacted pliocenic sand and gravel	Pliocenic				204.12		+	3.00	3.0						22	151/B4		
473	Artesian borehole		Artesian horizon on 54.0 m	Brod	Brod village	Bitola	Bach	Crna Reka, Florina	4534160	7547530	574	Compacted pliocenic sand and gravel	Pliocenic				54.0			3.0								151/5		
474	Dug Well			Slivnica	Slivnica village	Resen	Resen	Prespa Lake, Prespa	4535000	7507300	900	Compacted lake proluvial gravel sand	proluvial	5.70E-03			3.5	700	-3.00	1.2		0.15					13	1/116		
475	Drilled Well			Krani	Krani village	Resen	Resen	Prespa Lake, Prespa	4532550	7507500	850	Compacted lake proluvial gravel sand	proluvial	1.50E-02		25.0		30.0	300	-5.50	16.5		3	15	+	+			184	
476	Dug Well			Nakolec	Nakolec village	Resen	Resen	Prespa Lake, Prespa	4527750	7509500	855	Compacted lake gravel sand		3.10E-03			3.2	600	-1.65	3.0		1.14					14	1/119		
477	Dug Well			Stenje	Stenje village	Resen	Resen	Prespa Lake, Prespa	4532900	7493000	865	Compacted sludge sand		1.70E-04			7.2	900	-4.93	0.32		1.8					13	1/117		
478	Drilled Well		Limestone below 11.8 m; Schist below 12.4 m	Ljubanishta	Ljubanishta village	Ohrid	Ohrid	Ohrid Lake, Korcha	4531200	7480900	697.5	Compacted-karstic lake alluvial sand and limestone		2.90E-04		8	3	14.0	300	-3.20	4.0		4.4		+	+	7.3	185/B1		
479	Drilled Well		Limestone below 16.7 m	Ljubanishta	Ljubanishta village	Ohrid	Ohrid	Ohrid Lake, Korcha	4530700	7481100	649	Compacted-karstic lake alluvial sand and limestone		9.10E-04		15	2	14.0	300	-1.00	4.0		4.45		+	+	7.3	185/B2		

Table 1(20/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.
480	Drilled well	W/S		Novo Konjarevo	Novo Konjarevo village	Strumica	Novo Selo	Strumica	4584900	7664250	240	Compacted Pliocene gravel and sand	Pliocene	1.88E-03	22		50	600	-1.68	56	9.27	30					
481	Drilled well	W/S		Banica	Banica village	Strumica	Strumica	Strumica	4590200	7635200	250	Compacted alluvial gravel and sand	Alluvial	1.30E-04	52		60	600	-8.70	25							
482	Drilled well	W/S		Gradoshorci	Gradoshorci village	Strumica	Vasilevo	Strumica	4594400	7636000	259	Compacted Neogene gravel and sand	Neogene	2.20E-04	28.2	2	60	600		5				+	+	15.5	
488	Drilled well	W/S		Podaresh	Podaresh village	Radovish	Podaresh	Strumica	4609000	7629000	500	Compacted alluvial gravel and sand	Alluvial	2.98E-04	20		34.25	500	-1.60	50		6.9	367	+	+	6	6.7
489	Drilled well	W/S		Dedino	Dedino village	Radovish	Konce	Strumica	4604000	7619100	420	Compacted terrace gravel and sand		5.00E-04	12		16	500	-2.70	15							
490	Drilled well	W/S		Rakitec	Rakitec village	Radovish	Konce	Strumica	4601200	7619500	450	Compacted alluvial gravel and sand	Alluvial	5.70E-04	10		18	320	-4.50	9.7		2.8	30				
491	Drilled well	Industry	A47	Radovish	Radovish city	Radovish	Radovish	Strumica	4608025	7623195	322.5	Compacted Neogene gravel and sand	Neogene	2.00E-03	20		42	300	-1.60	30		1.9		-	-	13	7.38
492	Dug well	Agriculture	A48	Edrenikovo	Edrenikovo village	Strumica	Vasilevo	Strumica	4596990	7633020	325	Compacted Neogene gravel and sand	Neogene		7		15	300	-5.30	5				-	-	13.7	7.06
493	Drilled well	W/S	A49	Sushica	Sushica village	Strumica	Novo Selo	Strumica	4589380	7652140	214	Compacted alluvial sand and gravel	Alluvial				40	300	+	20				+	+	16	6.95
496	Dug well	Agriculture		Shtip	Shtip city	Shtip	Shtip	Shtip, Bregalnica	4624080	7599100	275	Compacted alluvial gravel and sand	Alluvial	7.20E-04	5.45		9.35	5000	-3.72	28.5		7.3	80				
497	Group of drilled wells	W/S	B6G	Fortuna	Near the railway station -Shtip	Shtip	Shtip	Shtip, Bregalnica	4625000	7599600	280	Compacted alluvial gravel and sand	Alluvial	8.80E-03	4.00E-03	6.2	11	800	-3.10	51			80				
498	Drilled well	W/S	A46	Lakavica	Lakavica village	Shtip	Shtip	Shtip, Bregalnica				Compacted alluvial gravel and sand	Alluvial	3.00E-04	3.50E-03		18	600	-1.34	15		8	36.5				
499	Drilled well	W/S		Banja	Banja village	Kochani	Obleshevo	Kochani, Bregalnica	4641500	7611000	330	Compacted desintegrated tuff					218	116	0.00								
500	Group of drilled wells	W/S		Grdovski Orman	Grdovci village	Kochani	Kochani	Kochani, Bregalnica	4638500	7618500	310	Compacted alluvial gravel and sand	Alluvial	1.00E-02			10	128	-4.00								
501	Drilled well	W/S	B5G	Grdovski Orman	Grdovci village	Kochani	Kochani	Kochani, Bregalnica	4638350	7618400	310	Compacted alluvial gravel and sand	Alluvial	2.83E-03	40.2		52	800	-3.80	40		1	70				
503	Group of drilled wells	Industry		Jugotutun	Sveti Nikole city	Sveti Nikole	Sveti Nikole	Sv. Nikole, Bregalnica	4634870	7580300	260	Compacted alluvial gravel with sand	Alluvial	1.00E-05	1.00E-02	4.2	30	131	-3.50	12							
504	Drilled well	Industry	A45	Mesna industrija	Kadrifakovo village	Sveti Nikole	Sveti Nikole	Sv. Nikole, Bregalnica	4629800	7585050	230	Compacted alluvial gravel and sand	Alluvial	1.40E-04	43.1				-4.60	18		14.5	273				
505	Drilled well	W/S		Dufurlija	Durfulija village	Sveti Nikole	Lozovo	Sv. Nikole, Bregalnica	4625200	7575100	333.5	Compacted alluvial gravel and sand	Alluvial				70	225									
506	Group of boreholes	W/S		Gurishte	Gurishte village Preod	Sveti Nikole	Sveti Nikole	Sv. Nikole, Bregalnica	4640500	7570400	860	Compacted alluvial gravel and sand	Alluvial	4.40E-05	9.5		31	116	-8.00			4.5	100			7	
507	Borehole	W/S		Cmilishte	Cmilishte village	Sveti Nikole	Sveti Nikole	Sv. Nikole, Bregalnica	4630490	7580000	320	Compacted Pliocene gravel and sand	Pliocene	5.00E-06			80	101									
509	Group of drilled wells	Industry	A38	Frotirka	Delchevo city	Delchevo	Delchevo	Delchevo, Bregalnica	4648120	7647260	600	Compacted alluvial gravel and sand	Alluvial	3.62E-03	6		8	200	-3.70	5.5		1.71	1000	+	-	12.7	6.4
510	Group of drilled wells	W/S		Trabotiviste	Trabotiviste village	Delchevo	Delchevo	Delchevo, Bregalnica	4639250	7650680	642	Compacted alluvial gravel and sand	Alluvial	4.00E-03	3		6.8	4000	-1.15	24.4		0.91	264				
511	Dug ringed well	W/S		Gabrovo	Gabrovo village	Delchevo	Delchevo	Delchevo, Bregalnica	4650100	7650000	750	Compacted Quaternary gravel and sand	Quaternary	1.10E-03	4.8		7.16	3000	-2.40	19			91.2	+			7.4
512	Dug ringed well	W/S		Grad	Grad village	Delchevo	Delchevo	Delchevo, Bregalnica	4644460	7653450	820	Compacted Quaternary gravel and sand	Quaternary	7.80E-03	5.6		6.75	3000	-1.18	16.5			26.9				

Table 1(21/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M')	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.	
513	Borehole	Industry		Grafoplast	Delehevo city	Delchevo	Delchevo	Delchevo, Bregalnica	4646400	7648600	590	Compacted alluvial sand and gravel	Alluvial	8.00E-04	2.5		21	131	0.00			200						
514	Drilled well	Industry	A40	Alkaloid	Berovo city	Berovo	Berovo	Berovo, Bregalnica	4649100	7542300	232	Compacted Pliocene sand and gravel	Pliocenic		4		12	300	-3.50	7.5						12.7	6.93	
515	Dug well	Agriculture	A41	Star bunar	Berovo city	Berovo	Berovo	Berovo, Bregalnica	4618890	7655530	270	Compacted alluvial sand and gravel	Alluvial		3		7	1000	-4.00					+		65.1	6.5	
516	Drilled well	W/S	A42	Burilcevo	Kochani city	Kochani	Obleshevo	Berovo, Bregalnica	4634285	7609875	325	Compacted proluvial sand and gravel	proluvial		5		20	270	-7.00	4						6.8	7.04	
517	Drilled well	Agriculture	A43	Osojnica	Vinica city	Vinica	Vinica	Kochani, Bregalnica	4639320	7627400	395	Compacted alluvial sand and gravel	Alluvial				7	10	-3.00	7						13	7.34	
518	Drilled well	Agriculture	A44	Ratavica	Probishtip city	Probishtip	Zletovo	Berovo, Bregalnica	4647900	7601500	440	Compacted alluvial sand and gravel	Alluvial				5	500	-0.65	5				+		8	6.93	
521	Drilled well	W/S		Tabanovce	Kumanovo city	Kumanovo	Kumanovo	Kumanovo, Pchinja	4674500	7559600	400	Compacted Pliocene sand with gravel	Pliocenic	8.60E-05	7		20	400	-4.30	2		4	14					
522	Dug well	Agriculture	A32	Chelopek	Kumanovo city	Kumanovo	Staro Nagorichane	Kumanovo, Pchinja	4677300	7569100	450	Compacted alluvial sand and gravel	Alluvial		0.5		4	1000	-3.50	2				+	+	7.5	6.57	
523	Dug well	Agriculture	A33	Ginovce	Kriva Palanka city	Kriva Palanka	Rankovce	Kumanovo, Pchinja	4670400	7595400	510	Compacted alluvial sand and gravel	Alluvial				12	1000	-7.00	3				+	+	9.5	6.9	
524	Borehole	W/S		Tabanovce-Kosternik	Kumanovo city	Kumanovo	Kumanovo	Kumanovo, Pchinja	4676500	755990	450	Karstic marble		1.00E-04	80		43	400	-7.00	30								
525	Drilled well	W/S		Katlanovo	Katlanovo village	Katlanovo	Petrovec	Pchinja	4639500	7558500	295	Compacted alluvial gravel and sand	Alluvial	2.00E-04	12		16	400	-3.25	11.2		4.25						
526	Drillhole	W/S	A23	Volkovo	Skopje city	Skopje	G.Petrov	Skopje, Vardar	4655200	7530140	276	Compacted Terrace sand with gravel		6.00E-04	3		7	1000	-3.00					+	+	9	6.98	
527	Drillhole	Agriculture	A24	Saraj	Skopje city	Skopje	Saraj	Skopje, Vardar	4651100	7527885	318	Compacted alluvial gravel and sand	Alluvial	5.00E-05	3.8		20	76	-3.80						+	+	11.1	7.05
528	Drilled well	Agriculture	A25	Pobozhje	Skopje city	Skopje	Chucher Sandevo	Skopje, Vardar	4663400	7563250	590	Compacted proluvial gravel with sand	proluvial		3		8	1000	-5.00	1				+	+	12.4	7.74	
529	Pipe well	Agriculture		G. Petrov	Skopje city	Skopje	Gjorche Petrov	Skopje, Vardar	4657000	7531200	560	Compacted alluvial gravel and sand	Alluvial	5.90E-04			51	550	-11.00	50		3					7.52	
530	Group of boreholes	Industry		Petrovec	Skopje city	Skopje	Petrovec	Skopje, Vardar	4644100	755700	273.11	Compacted Pliocene sand and gravel	Pliocenic	4.70E-03			16	146										
531	Drilled well	Industry	A26	Pivara	Skopje city	Skopje	Gazi Baba	Skopje, Vardar	4643500	7545000	230	Compacted alluvial gravel and sand	Alluvial	2.27E-05			50	600	-16.40	50			100				7.74	
532	Drilled well	W/S	B2G	Petrovec	Skopje city	Skopje	Petrovec	Skopje, Vardar	4644150	7557100	274.1	Compacted Neogene sand and gravel	Neogene	3.50E-04			100	225	-10.30	11.69		15.75						
533	Dug well	Agriculture	B1G	Zelenikovo	Skopje city	Skopje	Zelenikovo	Skopje, Vardar	4637739	7550290	217	Compacted alluvial gravel and sand	Alluvial												+		6.95	
536	Drilled well	Industry		Skovin	Skopje city	Skopje		Skopje, Vardar	4658200	7531120	556	Compacted alluvial gravel and sand	Alluvial	8.80E-02	14		36	600	-14.72	8.8		19.8		+	+			
537	Drilled well	W/S		Arachinovo	Skopje city	Skopje	Arachinovo	Skopje, Vardar	4653100	7544600	230	Compacted Pliocene sand and gravel	Pliocenic	2.80E-03	3.5		24	220	-15.00	0.1		7.5		+	+		7.68	
538	Drilled well	W/S		Petrovec	Skopje city	Skopje	Petrovec	Skopje, Vardar	4644200	7557150	274.2	Compacted alluvial gravel and sand	Alluvial	3.00E-05	5.5		14.5	250	-9.30	6		0.5	500					
539	Group of drilled wells	W/S		Susica	Markova susica village	Skopje	Studenicani	Skopje, Vardar	4648000	7561500	400	Compacted alluvial gravel and sand	Alluvial	1.90E-04			15	220	-5.50	3.5				+	+		8.6	
540	Drilled well	W/S		Kadino selo	Skopje city	Skopje	Ilinden	Skopje, Vardar	4642300	7549050	230	Compacted alluvial gravel and sand	Alluvial	3.60E-04	41			300	-1.40	29.6		26.6						

Table 1(22/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M')	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.		
541	Drilled well	Agriculture	A22	Bardovci	Skopje city	Skopje	Karposh	Skopje, Vardar	4652945	7531950	260	Compacted alluvial gravel and sand	Alluvial	1.00E-03			18		-0.53	10			-	+	10.4	6.78			
542	Redial well	W/S	A27	Veles	Veles city	T. Veles	Veles	Veles, Vardar	4620200	7565250	180	Compacted alluvial sand and gravel	Alluvial				10	4000	-2.00	5.5		6.5			-	12	7.12		
543	Drilled well	Industry	A28	Veles	Veles city	T. Veles	Veles	Veles, Vardar	4615700	7563700	250	Compacted alluvial sand and gravel	Alluvial	5.20E-04		8	10	2000	-2.00	3					-	10.8	7.12		
545	Dug well	Agriculture		Kalaslari	Veles city	T. Veles	Veles	Veles, Vardar	4617000	7569500	350	Compacted alluvial sand and gravel	Alluvial	1.66E-03		12	7	1750	-20.50	17		1.25	300						
548	Group of boreholes	Industry		Noncha Kamishova	Veles city	T. Veles	Veles	Veles, Vardar	4609150	7561000	209	Compacted alluvial gravel and sand	Alluvial	6.00E-03		2	8	66	-2.60	5								7	
549	Drilled well	Agriculture	B4G	Gradsko	Veles city	T. Veles	Gradsko	Veles, Vardar	4604600	7579800	170	Compacted alluvial gravel and sand	Alluvial			8	10	2000	-2.00	4					-	13.5	6.5		
550	Group of drilled wells	Agriculture		Dubrovo	Negotino city	Negotino	Negotino	Negotino, Vardar	4594200	7595700	100	Compacted alluvial gravel and sand	Alluvial	1.30E-03		10	10.8	600	-0.80	7		2.05	200						
551	Drilled well	W/S		Pepelishte	Negotino city	Negotino	Negotino	Negotino, Vardar	4597700	7594500	195	Compacted alluvial gravel and sand	Alluvial	1.73E-03		7.3	9.5	1300	-2.20	12		2.4	300			+			
552	Drilled well	W/S		Negorci	Gevgelija city	Gevgelija	Gevgelija	Gevgelija, Vardar	4561150	7624380	80	Compacted terrace gravel and sand		5.12E-03		26	40	600	-7.80	52.5		8.6	30					7	
553	Drilled well	W/S		Crnichani	Gevgelija city	Gevgelija	Star Dojran	Gevgelija, Vardar	4566650	7639700	185	Compacted terrace gravel and sand		1.24E-04		31	50	600		26		7	3140						
557	Dug well	Agriculture	A31	Toplec	Gevgelija city	Gevgelija	Star Dojran	Gevgelija, Vardar	4567800	7646300	170	Compacted Neogene gravel and sand	Neogene			4	13	1500	-9.00	5				+	-	15.9	6.8		
559	Dug well	Agriculture	A30	Gevgelija	Gevgelija city	Gevgelija	Star Dojran	Gevgelija, Vardar	4560100	7624400	60	Compacted alluvial gravel and sand	Alluvial			5	50	420	-10.00	20				+	+	12.1	6.62		
560	Drilled well	W/S	A1	Zhito-Polog	Tetovo city	Tetovo	Zherovljane	Tetovo, Vardar	4640800	7495400	483	Compacted alluvial gravel and sand	Alluvial	4.00E-05		49.6	50	395	-28.60	42		36		+	+	6.9	7.5		
561	Drilled well	W/S		Blace	Tetovo city	Tetovo	Brvenica	Tetovo, Vardar	4639000	7502200	720	Compacted alluvial gravel and sand	Alluvial	3.00E-04		5	19.5	450	-2.50	3		3	100						
562	Artesian drillhole	W/S	A4	Raotince	Tetovo city	Tetovo	Jegunovce	Tetovo, Vardar	4657425	7512380	395	Compacted Neogene gravel and sand	Neogene	1.60E-03			70	300	-0.60	3		3.9		+	+	11.3	7.08		
563	Artesian drillhole	W/S	A5	Jegunovce	Tetovo city	Tetovo	Jegunovce	Tetovo, Vardar	4658665	7510880	389	Compacted alluvial gravel and sand	Alluvial	8.40E-05		13.5	80	300	-1.20	6		10	300	+	+	11.2	6.74		
564	Drilled well	W/S		Stenche	Stence village	Tetovo	Brvenica	Tetovo, Vardar	4636920	7500750	700	Compacted alluvial gravel and sand	Alluvial	4.52E-03			8	1000	-3.75	20		0.65	322						
565	Drilled well	W/S		Makedonija Tabak	Tetovo city	Tetovo	Tetovo	Tetovo, Vardar	4652450	7497580	555	Compacted alluvial gravel and sand	Alluvial	9.00E-04		20	60	450	-27.00	20		3	390						
566	Drilled well	Industry		Teteks	Tetovo city	Tetovo	Tetovo	Tetovo, Vardar	4552080	7497880	580	Compacted alluvial gravel and sand	Alluvial	4.20E-04		13	60	500	-27.50	20		6							
567	Drilled well	W/S	A3	Skopje Tetovo	Skopje Tetovo road-Sarakino v.	Tetovo	Tetovo	Tetovo, Vardar	4650350	7501250	438	Compacted alluvial gravel and sand	Alluvial			7	30	300	-8.00	10		2			-	6.98	7.5		
568	Dug well	Agriculture	A2	Miletino	Miletino village	Tetovo	Brvenica	Tetovo, Vardar	4640200	7501850	510	Compacted alluvial gravel and sand	Alluvial				7	1000	-3.50	2					-	11.5	7.19		
570	Drilled well	W/S	A6	Gostivar	Zdunje village	Gostivar	Vrutok	Gostivar, Vardar	4627500	7490400	560	Compacted alluvial gravel and sand	Alluvial				63	200	-39.80	4.5		1.8			-	10.3	6.65		
572	Drilled well	W/S		Polog	Gostivar city	Gostivar	Gostivar	Gostivar, Vardar	4627900	7493300	565	Compacted alluvial gravel and sand	Alluvial	1.30E-04		21	46	350	-20.00	5		5							
573	Borehole	Industry	A6	Silika	Gostivar city	Gostivar	Cegrane	Gostivar, Vardar	4627500	7499400	560	Compacted alluvial sand and gravel	Alluvial	2.60E-04		10	15	146	-0.80							-	10.3	6.65	



Table 1(23/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.		
575	Drilled well	Industry	A7	Piskupstina	Piskupstina village	Struga	Lukovo	Debar	4575660	7467760	675														5.2	7.43			
577	Dug well	W/S	A8	Kichevo	Srbljani village	Kichevo	Drugovo	Treska	4594700	7496000	626	Compacted terrace gravel and sand													+	+	10.1	7.28	
581	Drilled well	Agriculture		Devich	Devich village	Makedonski Brod	Makedonski Brod	Treska	4600000	7520500	520	Compacted terrace gravel and sand						10	230	-0.30	8.7	6							
582	Dug well	W/S		Gimnazija				Treska	4575500	7445100	620	Compacted terrace gravel and sand						20	230	-3.44	1.5	12							
583	Dug well	Agriculture		Dolna Plasnica	Dolna Plasnica village	Makedonski Brod	Plasnica	Treska	4591500	7511200	674	Compacted terrace gravel and sand						20	230	-3.05	2	12							
584	Drilled well	W/S		Trebino	Trebino village	Makedonski Brod	Makedonski Brod	Treska	4598250	7517500	1340	Compacted Pliocene sand	Pliocenic					30	230	-9.70	0.5								
585	Drilled well	W/S		Topolnica	Topolnica village	Makedonski Brod	Makedonski Brod	Treska	4608100	7514250	1140	Compacted Dilluvial sand and gravel	Dilluvial					12	230	-2.85	0.25								
586	Borehole	Agriculture		Golemo Konjare	G. Konjari village	Prilep	Prilep	Prilep, Crna Reka				Compacted Tertiary sand and gravel	Tertiary			5	53	220	-1.30	4.5	4.05			+	+				
587	Drilled well	W/S		Krivogashtani	Krivogashtani town	Prilep	Krivogashtani	Prilep				Compacted Tertiary sand and gravel	Tertiary				41	200	-1.20	5.5	23								
588	Artesian borehole	W/S		Dolneni	Dolneni town	Prilep	Dolneni	Prilep	4582800	7538400	612	Compacted Tertiary sand and gravel	Tertiary	2.50E-04		50	200	320	+ 0.50	5									
589	Drilled well	W/S		Lagovo	Staro i Novo Lagovo village	Prilep	Prilep	Prilep	4572700	7543100	640	Compacted Tertiary sand and gravel	Tertiary				44	400	+	6	17			+					
590	Drilled well	Agriculture		Kostenci	Kostinci village	Prilep	Dolneni	Prilep	4595100	7534800	628	Compacted alluvial gravel and sand	Alluvial	5.00E-05		12	28	190	-2.00										
591	Artesian drillhole	Agriculture	A17	Krusheani	Krusheani village	Prilep	Krivogashtani	Prilep	4574200	7529600	590	Compacted Pliocene gravel and sand	Pliocenic				130	51	+ 3.00	0.1					-	-	16.4	7.48	
592	Drilled well	Industry	A18	Pivara	Prilep city	Prilep	Prilep	Prilep	4577200	7546000	650	Compacted Pliocene gravel and sand	Pliocenic	1.16E-05		17	99.5	146	-1.80	10			100			-	-	13.6	7.12
593	Piezometer	Piezometer		Debrishte Zrze	Dobriste village, Zrze village	Prilep	Dolneni	Prilep	4593719	7527275	667	Compacted Pliocene deposits and kartic marble	Pliocenic				110.3		-34.50						+			7	
594	Piezometer	Piezometer		Debrishte Zrze	Dobriste village, Zrze village	Prilep	Dolneni	Prilep	4594015	7526955	685	Compacted Pliocene deposits and kartic marble	Pliocenic				87.5		-40.50						+			7	
595	Piezometer	Piezometer		Debrishte Zrze	Dobriste village, Zrze village	Prilep	Dolneni	Prilep	4593200	7528160	665	Compacted Pliocene deposits and kartic marble	Pliocenic				101.3		-39.00						+			7	
596	Drilled well	Agriculture	A16	Bucin	Buchin village	Krushevo	Krushevo	Krushevo, Crna reka	4570200	7526200	750	Compacted Pliocene sand and gravel	Pliocenic	6.13E-05		23	42	480	-1.50	15	15			-	-	10	7.2		
597	Drilled well	W/S		Rastojca	Rastojca village	Krushevo	D.Hisar	Krushevo, Crna reka	4576000	7516650	685	Compacted alluvial gravel with sand	Alluvial				12	230	-2.66	1.24	4.5								
606	Group of boreholes	Agriculture		Germijan	Germijan village	Bitola	Bach	Bitola	4529900	7541000	620	Compacted alluvial gravel and sand	Alluvial			5.8	20	146	-2.10	2									
607	Drilled well	W/S	A19	Aglarci	Dolno i Gorno Aglarci village	Bitola	Novaci	Crna reka	4549800	7940200	567	Compacted alluvial gravel and sand	Alluvial			26	54	600		7.7	14.96					10	7.53		
608	Drilled well	Agriculture	A15	Sopotnica	Sopotnica village	Bitola	Bitrica	Bitola	4571500	7513200	665	Compacted alluvial gravel and sand	Alluvial			7	25	300		15	10			+	+	10.6	7.5		
609	Drilled well	Industry	A30	Kvasara	Bitola city	Bitola	Bitola	Bitola	4541150	7530250	590	Compacted alluvial gravel and sand	Alluvial			11	30	350		6.5	11.8					16.1	7.28		
610	Drilled well	W/S		397 Ribarci	Ribarci village	Bitola	Novaci	Bitola	4539850	7541150	585	Compacted alluvial gravel and sand	Alluvial			12	54	160		5	5.78								

Table 1(24/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.
611	Drilled well	W/S		468 Lazec	Lazec village	Bitola	Bistrica	Bitola	4529000	7533000	598	Compacted alluvial gravel and sand	Alluvial		9		50	160		5		5.43					
612	Artesian drillhole	Mineral water	A20	Logovardi	Logovardi village	Bitola	Bitola	Bitola, Crna Reka	4540325	7530470	575	Compacted Quaternary gravel and sand	Quaternary	1.00E-04	1.00E-06	11	26	450		6.5							
613	Drillhole	Industry		395 Factory "Progres"	Bitola city	Bitola	Bitola	Bitola	4544000	7530550	585	Compacted Quaternary gravel and sand	Quaternary			10	30	300		3							
614	Artesian drillhole	Mineral water		3191 Logovardi	Logovardi village	Bitola	Bitola	Bitola	4542700	7536350	574	Compacted organogenic deposit								2.5					15	7.5	
621	Group of drilled wells	Industry		Pogon Zastava	Demir Hisar town	D.Hisar	D.Hisar	D. Hisar	4564050	7517500	645	Compacted alluvial sand with gravel	Alluvial	3.12E-04			10	1300	-2.28	8		4.56	143			6.45	
626	Drilled well	W/S		Stenje	Stenje village	Resen	Resen	Prespa	45320600	7493500	920	Karstic limestone		6.00E-07		155	450	34	-3.00	30							
627	Drilled well	W/S	A13	Carev dvor	Carev dvor village	Resen	Resen	Prespa	4544500	7510100	870	Compacted alluvial sand and gravel	Alluvial	2.80E-04		20	30.8	550	-8.60	20		7	10.5	+	+	7.1	
628	Drilled well	W/S		Carev dvor	Carev dvor village	Resen	Resen	Prespa	4544300	7510000	860	Compacted alluvial sand and gravel	Alluvial			26	41.5	550	-7.20	20		10					
629	Dug well	Agriculture	A12	Pretor Asamati	Pretor & Asamati village	Resen	Resen	Prespa	4534200	7504000	860	Compacted Pliocene sand and gravel	Pliocenic				10	1300	-1.30	7.6							
630	Drilled well	W/S		Pretor	Pretor village	Resen	Resen	Prespa	4537500	7506000	880	Compacted alluvial sand and gravel	Alluvial			13.5	18.5	300	-6.50	2.5		6		+			
631	Drilled well	W/S		Carev dvor	Carev dvor village	Resen	Resen	Prespa	4536400	7503200	870	Compacted alluvial sand and gravel	Alluvial	2.80E-04		20	30.8	550	-8.60	20		7	10.5	+	+	7.1	
632	Drilled well	Industry		Carev dvor	Carev dvor village	Resen	Resen	Prespa	4536200	7503000	875	Compacted alluvial sand and gravel	Alluvial			26	41.5	550	-7.20	20		10					
633	Drilled well	W/S		Pretor Asamati	Pretor & Asamati village	Resen	Resen	Prespa	4536300	7503100	880	Compacted Pliocene sand and gravel	Pliocenic				71	500	-1.30	7.6							
634	Drilled well	W/S		Pretor	Pretor village	Resen	Resen	Prespa	4537300	7505800	885	Compacted alluvial sand and gravel	Alluvial			13.5	18.5	300	-6.50	2.5		6		+			
635	Drilled well	W/S		Pretor Asamati	Pretor & Asamati village	Resen	Resen	Prespa	4536200	7503000	860	Compacted Pliocene sand and gravel	Pliocenic				71	500	-1.30	7.6							
636	Drilled well	W/S		Pretor	Pretor village	Resen	Resen	Prespa	4536400	7503200	850	Compacted alluvial sand and gravel	Alluvial			13.5	18.5	300	-6.50	2.5		6		+			
637	Drilled well	Industry		Carev dvor	Carev dvor village	Resen	Resen	Prespa	4535800	7503000	880	Compacted alluvial sand and gravel	Alluvial	2.80E-04		20	30.8	550	-8.60	20		7	10.5	+	+	7.1	
638	Drilled well	W/S		Carev dvor	Carev dvor village	Resen	Resen	Prespa	4535400	7503200	878	Compacted alluvial sand and gravel	Alluvial			26	41.5	550	-7.20	20		10					
639	Drilled well	W/S		Pretor Asamati	Pretor & Asamati village	Resen	Resen	Prespa	4536400	7503200	870	Compacted Pliocene sand and gravel	Pliocenic				71	500	-1.30	7.6							
640	Drilled well	W/S		Pretor	Pretor village	Resen	Resen	Prespa	4537000	7505400	880	Compacted alluvial sand and gravel	Alluvial			13.5	18.5	300	-6.50	2.5		6		+			
641	Drilled well	W/S	A14	Krushje	Leva Reka village	Resen	Resen	Prespa	4555500	7489300	980	Karstic limestone					100	500	+ 2.00	1					9	7.38	
642	Drilled well	W/S		Kjafasan	Radozhda village	Struga	Struga	Ohrid	4550000	7467600	1300	Compacted alluvial sand and gravel	Alluvial			29	35.5	450	-5.80	2		14			+		
643	Drilled well	W/S		Podmolje	Orovnik village	Ohrid	Mesheishta	Ohrid	4557500	7479700	695	Compacted alluvial sand and gravel	Alluvial	1.80E-05			70	450	-5.80	15		20		+	+	7.82	
644	Drilled well	W/S	A10 (323)	Bratstvo	Ohrid city	Ohrid	Ohrid	Ohrid	4554450	7484500	710	Compacted Quaternary sand	Quaternary														

Table 1(25/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M')	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.
645	Borehole			Medicinski Centar	Dragomance village	Kumanovo	Staro Nagorichane	Debar	4597700	7461000	660	Compacted Neogene gravel and sand	Neogene				142	350	-40.00	5	8		+			7.22	
646	Dug well	Agriculture	A34	Dragomance	Debar city	Debar	Debar	Pchinja	4675900	7571800	350														8.3	6.85	
647	Dug well	Agriculture	A35	Pchinja	Pchinja village	Kumanovo	Kumanovo	Pchinja	4655000	7563000	280														10.9	6.4	
648	Dug well	Agriculture	A36	Sredno Konjare	Konjare village (Gorno i Dolno)	Kumanovo	Kumanovo	Pchinja	4646200	7559700	250														12.5	6.72	
649	Drilled well	W/S	A37	Katlanovo	Katlanovo village	Skopje	Petrovec	Pchinja	4639500	7558350	280														10.9	7.2	
203a	Group of artesian boreholes			Bilimbegovo		Skopje	Ilinden	Upper Vardar, Skopje	4650000	7548150	228	Compacted pliocenic sand and gravel	Pliocene		4.0		162	76.2		1.0				+			105/B
B 2	Drilled well	W/S		Peshiani	Ljubanishta village	Ohrid	Ohrid	Ohrid	4538700	7485000	699	Karstic limestone								1	<1.0						
B 348	Drilled well	W/S	A9	Dolno Lakocheraj	Sveti Naum settlement	Ohrid	Ohrid	Ohrid	4556700	4483000	706	Compacted terrace sand and gravel		4.29E-04	9	32	600	-3.00	25	3.06					11		
B015	Drilled well	W/S		Ljubaniste	Biljanini springs	Ohrid	Ohrid	Ohrid	4531250	7485100	695	Compacted Quaternary deposit	Quaternary							1							
B045	Drilled well	W/S		Sveti Naum	Biljanini springs	Ohrid	Ohrid	Ohrid	4530069	7478500	698	Karstic limestone		4.26E-04	25	30	400	-0.20	2.5	3.58			+	+	10.3	7.8	
B1027	Drilled well	W/S		Biljanini izvori	Pestani village	Ohrid	Ohrid	Ohrid	4551300	7485200	698	Carstic limestone					490										
B1028	Drilled well	W/S		334 Biljanini izvori	Kosel town	Ohrid	Kosel	Ohrid	4551000	7484970	700	Carstic limestone		2.25E-03			300	-8.12	55		1725		+	+			
B20a	Drilled well	W/S		Kosel	Dolno Lakocherej village	Ohrid	Ohrid	Ohrid	4557600	7486100	742	Compacted Quaternary sand	Quaternary	4.38E-04	8	20	600	-9.40	10	3.95	30.42		-	+		7.4	
220	Thermal borehole		Q is not measured because of the pulsation	Katlanovo	Katlanovo settlement	Skopje	Petrovec	Pchinja, Skopje	4640250	7557700	220	Karstic marbled limestone					70.0	spill-way							40.0	6.5	154/33
483	Thermomineral	Health spas		Saraj	Saraj village	Strumica	Bosilovo	Strumica	4593000	7642000	230	Fractured granite and gneiss					738	250		0.2			+		19	8.1	
484	Thermomineral	Health spas		Staro Baldovci	Staro Baldovci village	Strumica	Bosilovo	Strumica	4692400	7647000	220	Fractured granite and gneiss					425	350	-10.00	5			+		23.3	7.2	
485	Thermomineral	Health spas		Hamzali	Hamzali village	Strumica	Bosilovo	Strumica	4595150	7645200	230						420								25		
486	Thermomineral	Health spas		Bansko	Bansko village	Strumica	Murtino	Strumica	4583500	7647605	245	Fractured gneiss					254	800		60					70.5	7.4	
487	Thermomineral	Health spas		Bansko	Bansko village	Strumica	Murtino	Strumica	4583300	7647590	296	Fractured gneiss					600										
508	Thermomineral	Health spas		Istibanja	Istibanja village	Vinica	Vinica	Vinica, Bregalnica	4643864	7624362	376	Fractured gneiss					353	240		3			+		62	7	
546	Thermo-mineral	Mineral water		Sabota Voda	Veles city	T. Veles	Veles	Veles, Vardar	4618000	7567000	225						300	146	-4.00						26.2		
547	Thermo-mineral	Mineral water		Sabota Voda	Veles city	T. Veles	Veles	Veles, Vardar	4618030	7567020	265						255	128	-39.50						31.4		
554	Thermo-mineral	Health spas	A29	Negorska banja	Negorci village	Gevgelija	Gevgelija	Gevgelija Vardar	4560000	7625200	74.5	Compacted terrace gravel and sand					350	600		3			+		38.9		

Table 1(26/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.
555	Thermo-mineral	Health spas		Negorska banja	Negorci village	Gevgelija	Gevgelija	Gevgelija, Vardar	4560050	7625700	70.75	Compacted terrace gravel and sand					100	131							51.3		
556	Thermo-mineral	Health spas		Negorska banja	Negorci village	Gevgelija	Gevgelija	Gevgelija, Vardar	4559900	7625550	79.6	Compacted terrace gravel and sand					299	116							62		
440	Thermo-mineral (under construction)		Thermo-mineral water ?	Chestovo	Cestovo village	Valandovo	Valandovo	Lower Vardar Strumica	4573800	8380600	93	Tertiary deposit					380.0										186
111	Thermo-mineral Borehole		Artesian horizon on 307 m	Dolni Podlog	Dolni Podlog village	Kochani	Kochani	Bregalnica, Plachkovica	4638100	7607550	310	Fractured dacite tuff					320.0	2000		200.0					79	163	
117	Thermo-mineral Borehole		Thermo-mineral water down to 150 m.; Gneisses on 10 m.;	Istibanje	Istibanje village	Vinica	Vinica	Bregalnica, Plachkovica	4643050	8375600	375	Fractured gneiss					350.0	76.2		3.2					66		159/B-1
138	Thermo-mineral Borehole		Ingimbrite below 49 m; Dacite tuff below 120 m; Schist below	Banja	Banja village	Kochani	Obleshevo	Bregalnica, Shtip	4640600	7610650		Fractured dacite tuff					570m0	268.0		5.5					30.3 (surface), 54.5 (ground)		57/P-6

494	Spring	W/S	A50	Suvi Laki				Strumica	4603700	7653340	1070									0.3						4.6	7.36	
495	Spring	W/S	A77	Dvorishte	Dvorishte village	Berovo	Berovo	Strumica	4607940	7657110	950															7.6	6.74	
502	Spring	W/S	A76	Istevnik	Istevnik village	Delchevo	Delchevo	Delchevo, Bregalnica	4637810	7553000	680													+		10.5	6.72	
519	Spring	W/S	A75	Shushlevica	Vladimirovo village	Berovo	Berovo	Berovo, Bregalnica	4619680	7653280	860	Fractured schist and proluvial deposit								0.2						0.8	6.25	
520	Spring	W/S	A76	Istevnik	Delchevo city	Delchevo	Delchevo	Berovo, Bregalnica	4637810	7553000	680	Fractured granite								0.5				+		10.5	6.72	
534	Spring	W/S	A66	Crniche	Skopje city	Skopje	Kisela Voda	Skopje, Vardar	4649180	7535960	266	Fractured schist								1.0				+		13.3	6.87	
535	Spring	W/S	A68	Brodec	Skopje city	Skopje	Cucer Sandevo	Skopje, Vardar	4671820	7537100	1550	Fractured schist								1.5				+	+	7.1	7.9	
544	Spring	W/S	A69	Lisiche	Veles city	T. Veles	Caska	Veles, Vardar	4615000	7550700	330	Compacted fluvoglacial deposit								7						10	7.02	
558	Spring	W/S	A70	Sermeninska reka	Konsko village	Gevgelija	Gevgelija	Gevgelija, Vardar	4565500	7609700	155	Compacted proluvial sand and gravel	proluvial											+	+	9.4	6.8	
569	Spring	W/S	A53	Tearce	Tearce town	Tetovo	Tearce	Tetovo, Vardar	4659450	7510950	394	Compacted proluvial sand and gravel	proluvial							5.0				+	+	11.1	6.94	
571	Spring	W/S	A52	Cegrane	Cegrane village	Gostivar	Cegrane	Gostivar, Vardar	4633000	7498600	495	Compacted proluvial sand and gravel	proluvial							500.0				+		10.8	7.46	
574	Spring	W/S	A51	Vrutok	Vrutok village	Gostivar	Vrutok	Gostivar, Vardar	4624600	7486800	720	Karstic marble								1000				+	+	9.2	7.09	
576	Spring	W/S	A54	St. Jovan Bigorski	Vele brdo village	Gostivar	Rostuse	Debar	4608670	7467795	720												+		10.5	7.53		
578	Spring	W/S	A55	Gorna Belica	Gorna Belica village	Kichevo	Drugovo	Treska	4614903	7526150	550	Karstic limestone												+	+	8.8	7.12	
579	Spring	W/S		Studenchica	Studenchica spring			Treska	4600670	7488250	950	Karstic limestone																
580	Spring	W/S		Treska	Klenoc village	Kichevo	Drugovo	Treska	4592630	7485152	750	Karstic limestone																
599	Spring	W/S	A64	Zhelezec, Bucin	Zhelezec, Buchin village	Krushevo	Krushevo	Krushevo, Cma reka	4576150	7505500	820	Karstic limestone								900.0						11.2	7.05	

Table 1(27/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.			
615	Spring	W/S	A62	Zrze	Zrze village	Prilep	Dolneni	Bitola	459770	7528600	920												+	+	8.7	7.46				
616	Spring	W/S	A63	Nebregovo	Nebregovo village	Prilep	Dolneni	Bitola	4589700	7550000	1000													-	-	9.5	7.21			
617	Spring	W/S		91 Magarevo	Magarevo village	Bitola	Bitola	Bitola	4544500	7520250	1040	Fractured granite														8.8	6.5			
619	Spring	W/S		136 Goren Zabel	Lavci village	Bitola	Bitola	Bitola	4540150	7525300	1200	Fractured granite														8.0	6.5			
620	Spring	W/S		1171 Sveta nedela Bistrica	Bistrica village	Bitola	Bistrica	Bitola	4538350	7530000	640	Fractured quartz-sericite schist														13.2	6.5			
622	Spring	W/S		1266 Zhvan				D. Hisar	4571350	7508400	700	Karstic marble														5.0	7			
624	Spring	W/S		1360 Ostrilska reka	Zurce village	D. Hisar	D. Hisar	D. Hisar	4573600	7519200	730	Compacted alluvial sand and gravel	Alluvial														1.0	6		
650	Spring	W/S	A71	Nikuljane	Nikuljane village	Kumanovo	Staro Nagorichane	Pchinja	4676250	7565400	740																14.5	7.38		
651	Spring	W/S	A72	Zhidilovo	Zhidilovo village	Kriva Palanka	Kriva Palanka	Pchinja	4676450	7615150	880																6.9	7.12		
652	Spring	W/S	A73	Kundino	Kundino village	Probishtip	Probishtip	Pchinja	4655750	7595380	700																13.4	6.9		
I 008	Spring			Jablanica	Jablanica village	Struga	Lukovo	Ohrid	4536300	7484700	708	Karstic limestone															20.0	7		
I 016	Spring			Rechica Ljubaniste	Ljubanista village	Ohrid	Ohrid	Ohrid	4531000	7481500	695	Compacted Neogene deposit	Neogene														1.0	7		
I 018	Spring			Ljubaniste	Ljubanista village	Ohrid	Ohrid	Ohrid	4530500	7481200	695	Fractured schist and limestone															0.8	10.0	6.8	
I 019	Spring			Belichka reka	Gorna i Dolna Belica village	Struga	Struga	Ohrid	4564100	746380	1458	Karstic limestone															20.0	4.4	7	
I 055	Spring		A58	Sveti Naum	Sveti Naum settlement	Ohrid	Ohrid	Ohrid	4529420	7479180	720	Karstic limestone															1000.0	8.5	6.7	
I 058	Spring			Ljubaniste	Ljubanista village	Ohrid	Ohrid	Ohrid	4530000	7481300	750	Fractured schist															0.9	9.5	7.1	
I 1023	Spring			Bej bunar	Ohrid city	Ohrid	Ohrid	Ohrid	4552300	7484400	705	Karstic limestone															15	7	6.5	
I 1026	Spring			Biljanini izvori	Biljanini springs	Ohrid	Ohrid	Ohrid	4551500	7485000	697	Karstic limestone															100.0	7.6	6.5	
I 1048	Spring		A61	Krushje	Leva Reka village	Resen	Resen	Prespa	4557700	7497000	1050	Karstic limestone															20.0	9.6	7.36	
I 1157	Spring			Konjsko	Konjsko village	Ohrid	Ohrid	Ohrid	4543000	7485200	696	Fractured schist															7.0	10.0		
I 1265	Spring			Sirhen	Surlenci village	Resen	Resen	Prespa	4540050	7495000	870	Karstic limestone															0.2	12.4	6.5	
I 14	Spring			Ljubaniste	Ljubanista village	Ohrid	Ohrid	Ohrid	4531800	7482500	720	Karstic limestone															1.5	10.0	6.9	
I 493	Spring			Oktisi	Oktisi village	Struga	Struga	Ohrid	4565800	7466600	710	Karstic limestone															2.5	9.1	7	
I 496	Spring			Oktisi	Oktisi village	Struga	Struga	Ohrid	4564800	7466200	709	Karstic limestone															15.0	8.7	7	

Table 1(28/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M')	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.			
1520	Spring			Veleishta	Veleista village	Struga	Veleishta	Ohrid	4567000	7468600	700	Compacted Pliocene deposit	Pliocene																	
1522	Spring			Veleishta	Veleista village	Struga	Veleishta	Ohrid	4566600	7469000	701.5	Compacted Pliocene deposit	Pliocene								7.0					9.5	7			
1531	Spring			Delgozhda	Delogozhdi village	Struga	Delgozhda	Ohrid	4567550	7478400	700	Karstic limestone									70.0					9.4	7			
1575	Spring			Dretaica	Draslajca village	Struga	Struga	Ohrid	4564100	7474800	705	Compacted Neogene gravel and sand	Neogene								5.5					8.0	6.8			
1649	Spring			Koroshishte	Korosista	Ohrid	Delgozhda	Ohrid	4567400	7479100	702	Karstic limestone									30.0					12.0	7			
1676	Spring			Mesheishta	Mesheishta village	Ohrid	Mesheishta	Ohrid	4565500	7481400	710	Compacted proluvium gravel and sand	proluvial								4.0					8.0	7			
1677	Spring			Mesheishta	Mesheishta village	Ohrid	Mesheishta	Ohrid	4565000	7481200	708	Compacted proluvium gravel and sand	proluvial								3.0					8.5	6.5			
1918	Spring			Radolishta	Radolishta village	Struga	Struga	Ohrid	4558250	7468100	699	Karstic limestone									30.0					8.5	7			
1940	Spring			D. Lakocheraj	Dolno Lakocheraj village	Ohrid	Ohrid	Ohrid	4551250	7470300	700	Karstic limestone									5					14	6.5			
1940a	Spring			Kalishta	Kalista village	Struga	Struga	Ohrid	4551250	7470300	697	Karstic limestone									10.0									
1943	Spring			Podmolje	Podmole village	Ohrid	Ohrid	Ohrid	4550950	7471100	695	Karstic limestone									2.0					13.6	6.5			
1949a	Spring			Vlaj	Mali Vlaj village	Struga	Struga	Ohrid	4550950	7471100	698	Karstic limestone									25.0					9.6	7			
1950	Spring			Radozhda	Radozhda village	Struga	Struga	Ohrid	4557000	7469000	695	Karstic limestone									12.0					8.0	7.2			
1954	Spring			Radozhda	Radozhda village	Struga	Struga	Ohrid	4551000	7469200	695	Fractured schist									1.2					8.5	7			
1956	Spring			Radozhda	Radozhda village	Struga	Struga	Ohrid	4550000	7469000	696	Fractured schist									1.0					8.5	7			
32	Spring catchment	W/S for Skopje		Large Spring Rashche	Rashche village	Skopje	Kondovo	Upper Vardar, Kachanik	4655300	7520700	350	Karstic marble									2750.0	3500				+	+	13.0	6	2/127
288	Spring catchment	W/S for Vrben	Limestone below 171.0 m	Vrben	Vrben village	Gostivar	Mavrovi Anovi	Radika, Debar	4620250	7479100	1300	Karstic marbled limestone									40								6/33	
324	Spring catchment	W/S for Ohrid		Biljanini izvori, Ohrid	Biljanini springs	Ohrid	Ohrid	Ohrid Lake, Ohrid	4551000	7484970	700	Karstic limestone	Karstic limestone								1000.0					+	+		12	
436	Spring catchment	W/S for Pirava		Valandovo	Valandovo city	Valandovo	Valandovo	Lower Vardar, Strumica	4577370	8378550	300	Fractured marble									4.0					+	+	15.0	6.5	88/1
437	Spring catchment	W/S for Pirava		Valandovo	Valandovo city	Valandovo	Valandovo	Lower Vardar, Strumica	4577000	8378800	300	Fractured marble									3.5					+	+		88	
438	Spring catchment	W/S for Pirava	Side flow 3.5 l/s	Valandovo	Valandovo city	Valandovo	Valandovo	Lower Vardar, Strumica	4576600	8379100	240	Fractured marble									15.0					+	+	16.5	6.8	88
439	Spring catchment	W/S for Pirava		Valandovo	Valandovo city	Valandovo	Valandovo	Lower Vardar, Strumica	4576200	8379000	160	Fractured marble									1.0								88	
459	Spring catchment	W/S for Kavadarci		Lukar	Lukar area	Kavadarci	Konopishte	Lower Vardar, Kavadarci	4562100	7593400	1200	Karstic limestone									400.0	240				+	+		187	
460	Spring catchment	W/S for Negotino		Lukar	Lukar area	Kavadarci	Konopishte	Lower Vardar, Kavadarci	4560500	7593400	1200	Karstic limestone									90.0					+	+		187	

Table 1(29/29) WELL INVENTORY

No	Classification	Purpose	Remarks	Location	Village	Old municipality	New municipality	Basin	Longitude (UTM)	Latitude (UTM)	Altitude (m)	Type of aquifer	Geologic time	K (m/sec)	Aquifer thickness (H)	No. of aquifers	Well depth (M)	Diameter	Water level (NPV)	Yield (l/sec)	Drawdown (s)	Radius of influence (R)	Chemical	Bacteriological	Temperature	pH	Reference No.	
447	Spring catchment		Group of thermomineral drillholes	Negorska Banja	Negorska spa, Negorci village	Gevgelija	Gevgelija	Lower Vardar, Strumica	4560060	7625300	70	Fractured diabase					32	300	+	1.20	6	22.9			42.5		150	
326	Spring catchment (Bej Bunar)			Biljanini izvori, Ohrid	Biljanini springs	Ohrid	Ohrid	Ohrid Lake, Ohrid	4551870	7485250	710	Karstic limestone	Karstic limestone								40.0						12/11	
265	Spring catchment (for Gostivar)	W/S for Gostivar		Vrutok (Vardar spring)	Vrutok village	Gostivar	Vrutok	Treska, Gostivar	4624600	7486900	720	Karstic marble									1000.0			+	+	12.0	6	2/481
268	Spring catchment (for Kichevo)	W/S for Kichevo		Studenchica	Studenchica spring	Kichevo	Drugovo	Treska, Gostivar	4600500	7478300	1060	Karstic marble									905.0	2770					11	
142	Spring catchment (Knezhe village)	W/S for Knezhe village	With better captage we can get Q= 8.0 l/sec	Sopot	Sopot village	Sveti Nikole	Sveti Nikole	Bregalnica, Shtip	4640000	7572100	540	Fractured sandstone									4.0			+		11.0		50
266	Spring(large)			Kolari	Kolari village	Kichevo	Kolari	Treska, Gostivar	4610500	7494000	1000	Karstic marble									50.0					10.0		157
277	Spring(large)		Dried in a dry season	Peshna	Peshna spring	Makedonski Brod	Makedonski Brod	Treska, Gostivar	4600600	7521500	580	Karstic marble									200.0	0						157/
279	Spring(large)			Belica reka(river)	Belica village	Makedonski Brod	Samokov	Treska, Gostivar	4615000	7526200	560	Karstic marble									1000.0	3000						157
280	Spring(large)			North-east from Gurguska Laka	Gurgurnica village	Tetovo	Brvenica	Treska, Gostivar	4635150	7513850	430	Karstic marble									1500					12.5	6	2/415
310	Spring(large)			Vevchani	Vevchani village	Struga	Vevchani	Crni Drim, Ohrid	4566400	7465700	1000	Karstic dolomite									1500.0							1
320	Spring(large)			Shum	Sum village	Struga	Struga	Crni Drim, Ohrid	4560000	7469600	720	Karstic limestone	Karstic limestone								2000.0							1
625	Spring(large)	W/S		Babino	Babino village	D.Hisar	Sopotnica	D. Hisar	4572850	7507600	725	Karstic limestone			26		41.5	550		-7.20	20.0		10.0					
1 618	Spring(large)		A59	Vevchani	Vevchani village	Struga	Vevchani	Ohrid	4560070	7469500	715	Karstic limestone									1500.0			+	+	8.4	6.98	