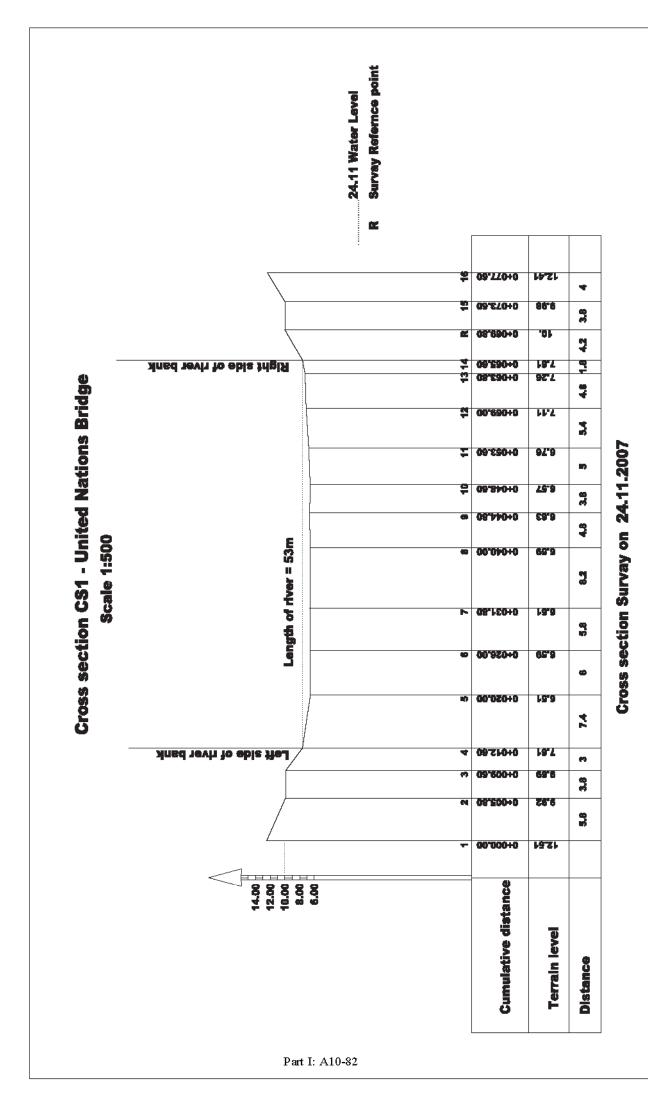
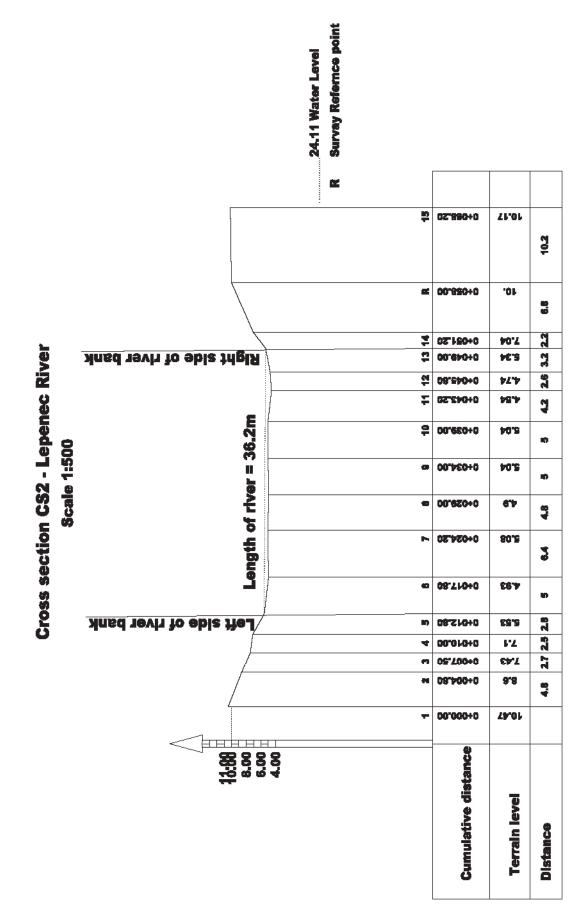
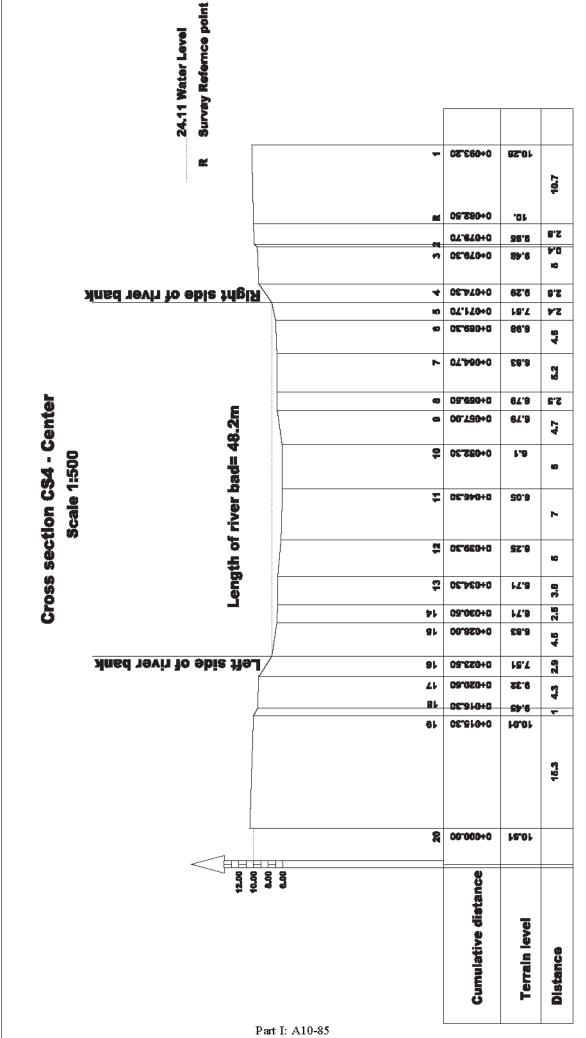
FLOW RATE AND WATER SAMPLING MEASURING POINTS

No	Cod	Description of location	Water quality	Flow rate
1	R	Stil bridge Saraj	Vardar	
2	R	Sport centar Saraj -Treska	Treska	
3	R	Lepenec	Lepenec	
4	R	Bridge Lepenec CS2(Cross section)	Lepenec	
5	R	Pedestrian crossing Bardovci CS3(Cross section)	Vardar	1 hour flow rate
6	S	Sewage pipe - Bardovci	Sewage pipe	24 hours flow rate
7	R	Bridge Unated Nations	Vardar	
8	R	CS4 (Cross section) - Center	Vardar	1 hour flow rate
9	ı	Industry outlet Pivara	Industry pipe	24 hours flow rate
10	ı	Industry outlet Makstil	Industry pipe	24 hours flow rate
11	R	Bridge N.Lisice	Vardar	
12	S	Sewage pipe - Aerodrom - N.Lisice	Sewage pipe	24 hours flow rate
13	R	Location between sewage pipe and Industry pipe	Vardar	
14	R	Outlet from unlegal settelment Lisice	Vardar	
15	R	Pipe under bridge (down stream?)	Vardar	
16	R	Open chanel	Vardar	
17	R	Bridge Jurulljari CS5 (Cross section)	Vardar	1 hour flow rate
18	S	Pump station Dracevo	Sewage pipe	24 hours flow rate





Cross section Survay on 24.11.2007



Cross section Survay on 24.11.2007

Cross section CS1

Attached Autocad Drawing -CS1+CS2_geodetic_survay

Unalted Nation Bridge- River V	/ardai
--------------------------------	--------

	Terrain			1	
	Level in				
	reference	Length of	Cumulutive		
No	to point R	segmets	distance		
	m	m	m		
1	12.51	5.8	0		
2	9.92	3.8	5.8		
3	9.89	3	9.6		
4	7.61	7.4	12.6	Left side of river bank	
5	6.51	6	20		
6	6.59	5.8	26		
7	6.61	8.2	31.8		
8	6.59	4.8	40	Length of river =	53 m
9	6.63	3.8	44.8]	
10	6.57	5	48.6		
11	6.76	5.4	53.6		
12	7.11	4.8	59		
13	7.26				
14	7.61	4.2	65.6	Right side of river bank	
R	10	3.8	69.8		
15	9.98	4	73.6		
16	12.41		77.6		

Cross section CS2

Attached Autocad Drawing -CS1+CS2_geodetic_survay

River Lepenec

	raver rebe	Hec		_	
	Terraln				
	Level in				
	reference	Length of	Cumulutive		
No	to point R	segmets	distance		
	m	m	m		
1	10.47	4.8	0		
2	8.6	2.7	4.8		
3	7.43	2.5	7.5		
4	7.1	2.8	10		
5	5.53	5	12.8	Left side of river bank	
6	4.93	6.4	17.8		
7	5.08	4.8	24.2		
8	4.9	5		Length of river =	36.2 m
9	5.04	5	34		
10	5.04	4.2	39		
11	4.54	2.6	43.2		
12	4.74	3.2	45.8		
13	5.34	2.2	49	Right side of river bank	
14	7.04	6.8	51.2	_	
R	10	10.2	58		
15	10.17		68.2		
.0	10.11		40. 2	1	

Cross section CS3

Pedestrial bridge- River Vardar

	Terrain				
	Level in				
	reference	Length of	Cumulutive		
No	to point R	segmets	distance		
	m	m	m		
17	9.7	5.8	0		
16	10.05	3.2	5.8		
15	8.17	1	9	Left side of river bank	
14	7.4	1.8	10		
13	6.93		11.8		
12	6.6	6	18.8		
11	6.5	6	24.8		
10	6.85	5.2	30.8	Length of river =	46.2 m
9	7.25	5.5	36		
8	7.45	3.3	41.5		
7	7.51	3.4	44.8		
6	7.55	3.8	48.2		
5	7.75	3.2	52		
4	8.15	3.1	55.2	Right side of river bank	
3	10	0.7	58.3		
R	10	24.8	59		
2	10.67	5.4	83.8		
1	13.71		89.2		

Cross section CS4

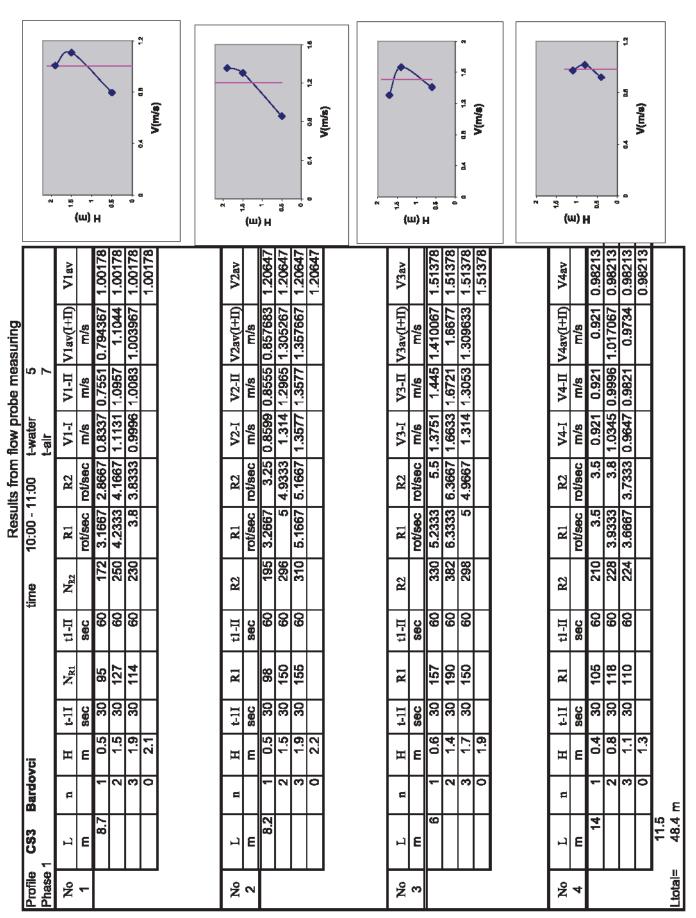
Center - River Vardar

	Course - IV	701 701001		ı	
	Terrain				
	Level in				
	reference	Length of	Cumulutive		
No	to point R	segmets	distance		
	m	m	m		
20	10.51	15.3	O		
19	10.01	1	15.3		
18	9.45	4.3	16.3		
17	9.32	2.9	20.6		
16	7.51	4.5	23.5	Left side of river bank	
15	6.83	2.5	28		
14	6.71	3.8	30.5		
13	6.71	5	34.3		
12	6.25	7	39.3		
11	6.05	6	46.3	Length of river =	48.2 m
10	6.1	4.7	52.3		
9	6.79	2.5	57		
8	6.79	5.2	59.5		
7	6.83	4.6	64.7		
6	6.98	2.4	69.3		
5	7.51	2.6	71.7	Right side of river bank	
4	9.29	5	74.3		
3	9.48	0.4	79.3		
2	9.95				
R	10	10.7	82.5		
1	10.26		93.2		

Cross section CS5

L	Jurum	lari-River	Vardar
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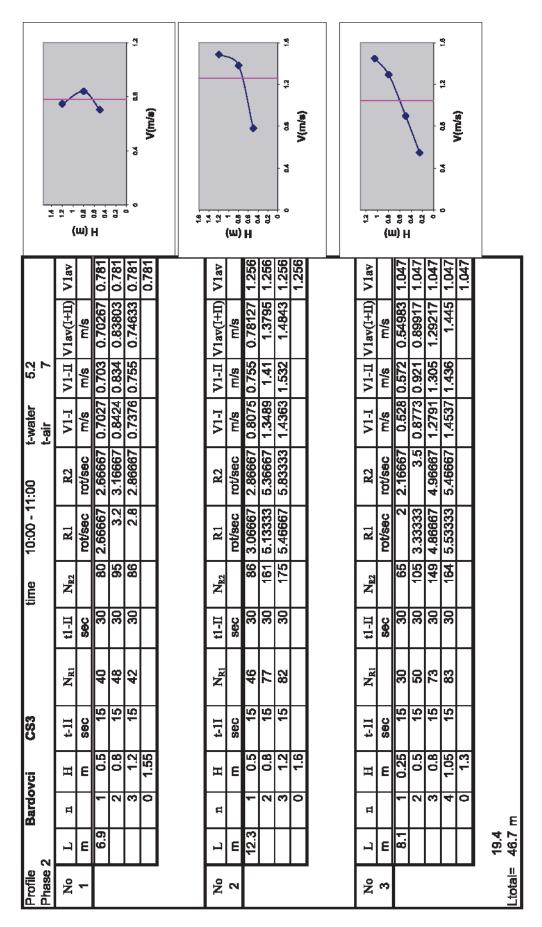
	Terrain				
	Level in			1	
l .	reference	Length of	Cumulutive		
No	to point R	segmets	distance		
	m	m	m		
1	10.11	12.2	0		
2	9.99	4	12.2		
3	8.89	6.8	16.2		
4	9.12	9	23		
5	7.96	1.7	32	Left side of river bank	
6	7.09		33.7		
7	6.61	1.3	35.9		
8	6.41	5	37.2		
9	5.4		42.2	Length of river =	29.7 m
10	5.2	6	46.2		
11	4.88	6.5	52.2		
12	5.41	1.5	58.7		
13	6.85	1	60.2		
14	7.26	0.5	61.2		
15	8.01	0.3	61.7	Right side of river bank	
16	8.76	5.2	62		
R	10	27.5	67.2		
17	10.49	5.5			
18	13.41		100.2		



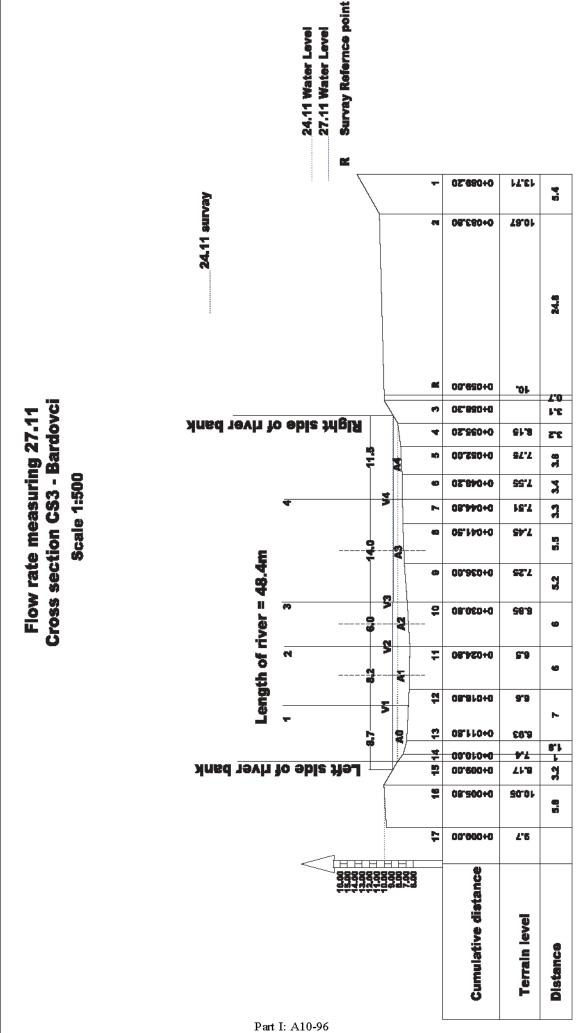
Results from flow probe measuring

Profile	783	mtv				ľ	time 12-13	_		t-water			ſ	
Phase '						•				t-air	7.5			\$ 1
ž	Г	n	н	t-11	R.1	t1-II	R2	R.1	R2	V1-I	√1-п	V1av(I+II)	Vlav	
	m	П	П	sec		sec		rot/sec	rot/sec r	m/s	m/s	m/s		2 8 8 H
	7.4	F	0.3	09		30	78	0.6333	2.6	0.1699	0.6852	0.427567	1.22558	28
		2	0.5	30	90	30	170	2	5.6667	0.528	1.4887	1.008333	1.22558	D
		3	1	15	115	30	220	7.6667	7.3333	2.0127	1.9253	1.969	1.22558	0 0,4 0,8 1,2 1,6 2 2,4
		4	1.3	15	85	30	172	5.6667	5.7333	1.4887	1.5061	1.4974	1.22558	V(m/s)
		0	1.45	H									1.22558	
•														
ž	ı	u	Н	t-11	R1	11-II	R2	R1	R2	V2-I	V2-II	V2av(I+II)	V2av	4.
2	E	П	E	sec		sec		rot/sec	rot/sec	s/ш	s/w	s/w		
Г	8.8	F	0.3	15	108	30	190	7.2	6.3333	1.8904	1.6633	1.776867	1.91223	2 2 2 2
		7	0.7	12	117	30	230	7.8	7.6667		_	2.030133	1.91223	
		3	-	15	110	30	220	7.3333	7.3333	1.9253		1.925333	1.91223	- 20
		4	1.3	15	119	30	200	7.9333	6.6667	2.0825	1.7507	1.9166	1.91223	0 0,4 0,8 1,2 1,8 2 2,4
		0	1.5										1.91223	V(m/s)
'														
N _N	r	ņ	Н	t-11	R1	т-11	R2	R1	R2	V3-I	√3-П \	V3av(I+II)	V3av	- Br
3	٤		٤	Sec		Sec		rot/sec	rot/sec	s/m	s/w	s/w		4. 0
	10	1	0.3	15	06	30	170	9	5.6667	1.576	1.4887	1.532333	1.65242	-
		2	0.7	15	100	30	210	9.6667	7	1.7507	_	1.794333	1.67753	- Brd
		3	1.1	15	8	30	195	6.2667	6.5	1.6459	1.707	1.676433	1.67753	- 100
		4	1.35	15	90	30	187	9	6.2333	1.576	1.6371	1.606567	1.67753	600
		ী	1.65	\dashv							1		1.67753	0 0
														1
Š.	ı	п	Н	t-11	R1	11-II	R2	R1	R2	V4-I	V4-II	V4av(I+II)	V4av	4
4	٤		٤	Sec		Sec		rot/sec	rot/sec	s/m	s/ш	s/ш		•
	6.2	F	0.3	15	85	30	180	2.6667	9	1.4887	1.576	1.532333	1.69608	- % (u
		2	9.0	15	105	30	200	7	6.6667	1.838	1.7507	1.794333	1.69608	1) H
		3	1	15	92	30	190	6.3333	6.3333	1.6633	1.6633	1.663333	1.69608	02
		0	1.2	\dagger							\dagger		1.69608	
														0 04 0.8 1.2 1.8 2
- 10404	16.2													(SALI)A
- 12121	3.55													

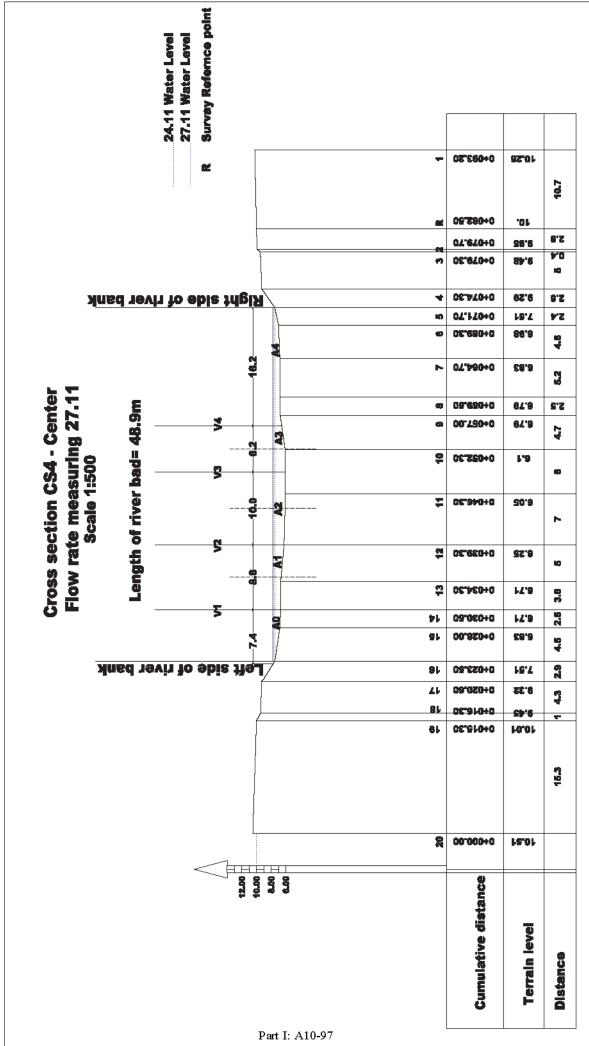
	# - 2 6 4 0	r probe rr	t-air 8	H t-1I R1 t1-II R2 R1 R2 V1-I V1-II V1av(I+II) V1av	m sec sec rot/sec rot/sec m/s m/s m/s m/s m/s m/s	15 51 30 106 3.4 3.5333 0.8948 0.9297 0.912267 1.1306	1 15 70 30 136 4.8667 4.5333 1.2267 1.1917 1.2092	1.3 15 68 30 126 4.5333 4.2 1.1917 1.1044 1.148067 1.1306	1.7 15 72 30 142 4.8 4.7333 1.2616 1.2441 1.252867	2.2			H	sec sec notisec rotisec m/s m/s m/s	L	-	1.5 30 158 15 75 5.2667 5 1.3839 1.314 1.348933 1.30418	2	3.2 1.30418			\vdash	sec sec notisec notisec m/s m/s m/s m/s		1.5 15 65 30 128 4.3333 4.2667 1.1393 1.1219 1.1306 1.14261	2 15 70 30 140 4.6667 4.6667 1.2267 1.2267 1.226667	2.5 15 75 30 145 5 4.8333 1.314 1.2703 1.292167	3.8 1 1.14261		H	m sec rot/sec rot/sec m/s m/s m/s	15 12 30 22 0.8 0.7333 0.2183 0.2013 0.20981 0.27016	791:1 12 30 35 1 1:1667	1.3 15 15 30 35 1 1.1667 0.2691 0.3115 0.290275	1.7 15 15 30 35 1 1.1667 0.2691 0.3115 0.290275 0.27016		Verbi
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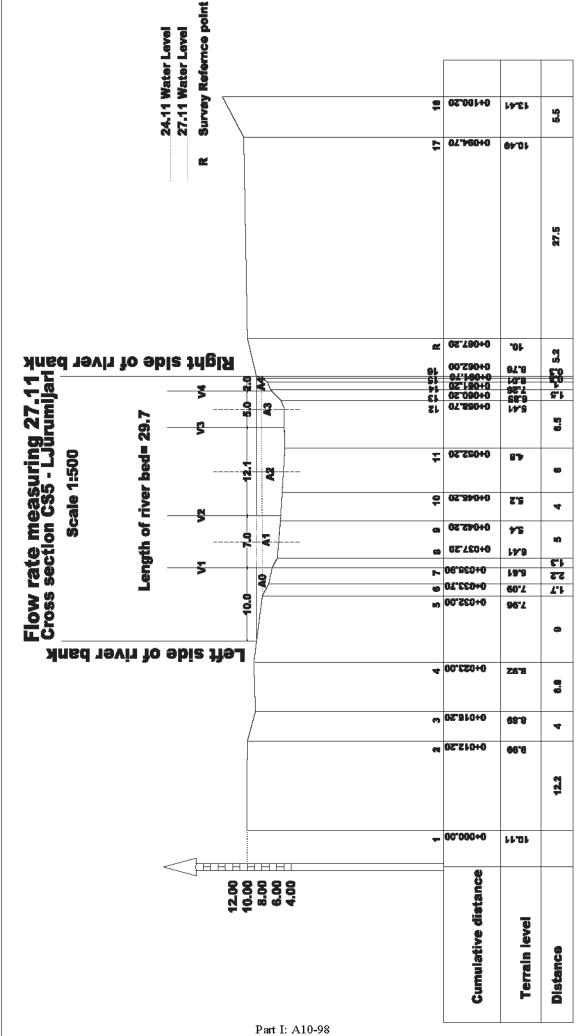
	- 6		H (r	O	0	0 0.4 0.8 1.2	V(m/s)			F 2-	H (r	•		0 0.4 0.8 1.2 1.6	V(m/s)	7		M)	H		10 00 10 18		V(ms)		3-	(u) H		- 3	8.0 4.0	V(m/s)]
F		Vlav		0.809	0.809	0.809	0.809	0.809	V4av		0.983	0.983	0.983	0.983	0.983	V4av		0.859	0.859	0.859	0.859	0.859		Vlav		0.607	0.607	0.607	0.607	0.607		4
	1	V1av(I+II)		0.69393	0.83803	0.83367	0.8686		V4av(I+II)		0.83367	0.85987	0.92973	1.30963	-	V4av(I+II)		0.528	0.62407		1.33583			Vlav(I+II)		0.54547	0.70267		0.5673			1
6.5	2	V1-П	s/w	0.685	0.834	0.842	0.86		√4-п	s/ш	98.0	0.877	0.947	1.288		V4-II	s/ш	0.528	0.633	0.93	1.358			V1-П	s/w	0.545	0.703	0.607	0.624			
	t-all	V1-I	s/ш	0.7027	0.8424	0.8249	0.8773		V4-I	s/ш	0.8075	0.8424	0.9123	1.3315		V4-I	m/s	0.528	0.6153	0.9647	1.314			V1-I	s/w	0.5455	0.7027		0.5105			
	ו	R2	rot/sec	2.6	3.16667	3.2	3.26667		R2	rot/sec	3.26667	3.33333	3.6	4.9		R2	rot/sec	2	2.4	3.53333	5.16667			R2	rot/sec	2.06667	2.66667	ш	2.36667			
		R1	rot/sec	2.66667	3.2	3.13333	3.33333		R1	rot/sec	3.06667	3.2	3.46667	5.06667		R1	rot/sec	2	2.33333	3.66667	5			R.1	rot/sec	2.06667	2.66667	2.33333	1.93333			
		R2		78	92	96	98		R2		96	100	108	147		R 2		9	72	106	155			R 2		62	80	69	71			
		11-П	Sec	30	30	30	30		t1-II	sec	30	30	99	30		t1-II	sec	30	30	30	30			t1-II	sec	30	30	30	30			
		R1		40	48	47	20		R1		46	48	52	92		R1		30	35	22	75			R.1		31	40	35	59			
CS5		t-1I	Sec	15	15		15		t-1I	sec	15	15	15	15		t-1I	sec	15		15	15			t-1I	sec	15						
Ljurumljari		Н	٤	9.0	-	1.		2.3	Н	E	0.5	_			2.7	Н	£	0.8			2.5			Н	£	1	1.5		2.5	Ш		
Ljur		п	Ц	1 1	2	3	4	0	п		1	2	3	4	0	п		5 1	2	3	4	0		п	Ц	1	2	3	4	0		E
		L	ε	1 8					Г	Ε	5					Г	£	6.5						Г	£	1						32.5
Profile	Fnase Z	Ñ	-						Ñ	7						No	က							No	4	Ĺ						Ltotal=



Cross section Survay on 24.11.2007

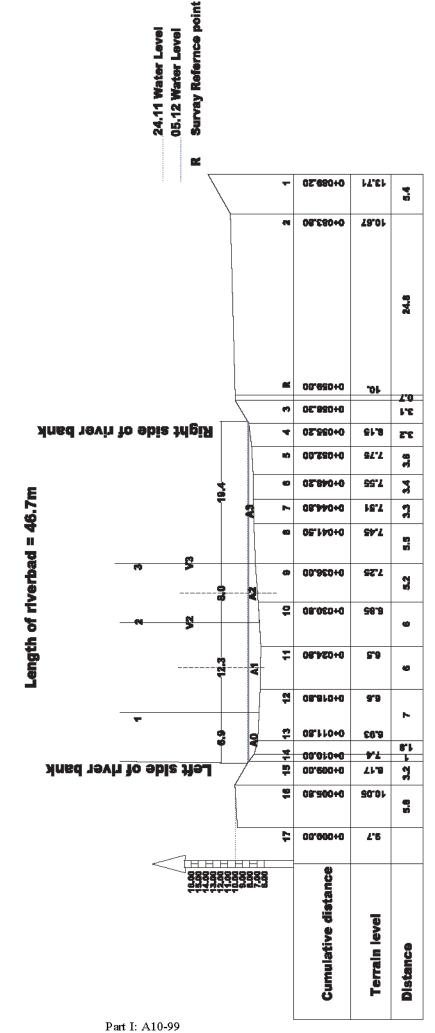


Cross section Survay on 24.11.2007



Cross section Survay on 24.11.2007

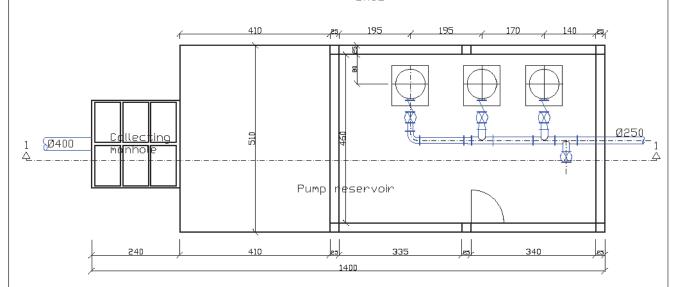




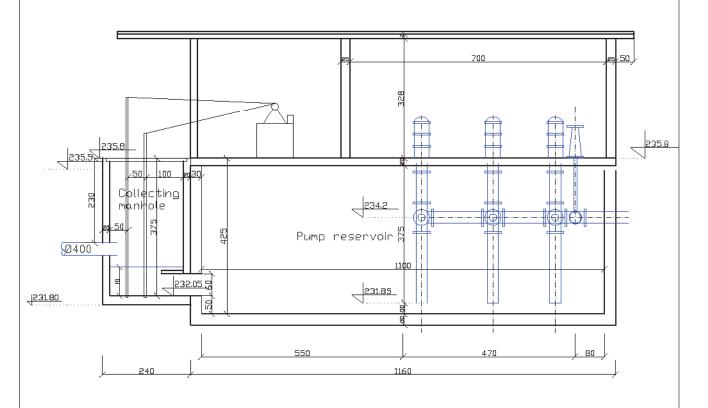
Cross section Survay on 24.11.2007





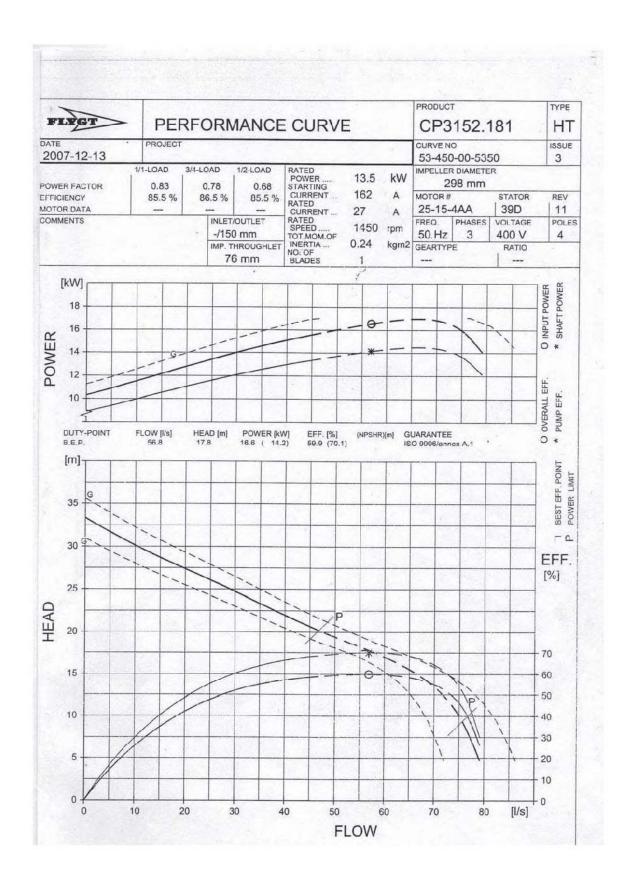


SECTION 1-1



Part I: A10-102

Attachment 21



Attachment 22

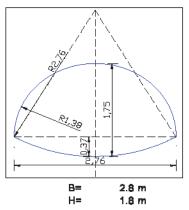
27.11.2	2007	Outlet	Bardov	ci	MP6			Dpipe		500	mm
	No	h/D	h	r	φ	φ	В	s	Q _{crit}	Q _{crit}	v
		(%)	m	m	(rad)	(°)	m	m²	m ³ /s	—απ Vs	m/s
8:00	1	13.0%	0.065	0.25	1.48	84.6	0.34	0.015	0.01	9.9	0.661
09:00	2	13.0%	0.065	0.25	1.48	84.6	0.34	0.015	0.01	9.9	0.661
10:00	3	17.0%	0.085	0.25	1.70	97.4	0.38	0.022	0.02	16.8	0.760
11:00	4	14.0%	0.070	0.25	1.53	87.9	0.35	0.017	0.01	11.5	0.687
12:00	5	14.0%	0.070	0.25	1.53	87.9	0.35	0.017	0.01	11.5	0.687
13:00	6	16.0%	0.080	0.25	1.65	94.4	0.37	0.020	0.01	14.9	0.737
14:00	7	16.0%	0.080	0.25	1.65	94.4	0.37	0.020	0.01	14.9	0.737
15:00	8	18.0%	0.090	0.25	1.75	100.5	0.38	0.024	0.02	18.8	0.783
16:00	9	16.0%	0.080	0.25	1.65	94.4	0.37	0.020	0.01	14.9	0.737
17:00	10	16.0%	0.080	0.25	1.65	94.4	0.37	0.020	0.01	14.9	0.737
18:00	11	20.0%	0.100	0.25	1.85	106.3	0.40	0.028	0.02	23.1	0.828
19:00	12	24.0%	0.120	0.25	2.05	117.4	0.43	0.036	0.03	33.1	0.912
20:00	13	18.0%	0.090	0.25	1.75	100.5	0.38	0.024	0.02	18.8	0.783
21:00	14 15	17.0%	0.085 0.120	0.25	1.70 2.05	97.4 117.4		0.022	0.02 0.03	16.8 33.1	0.760 0.912
23:00	16	24.0% 20.0%	0.120	0.25 0.25	1.85	106.3	0.43	0.036 0.028	0.03	23.1	0.828
00:00	17	19.0%	0.095	0.25	1.80	103.4	0.39	0.026	0.02	20.9	0.806
01:00	18	14.0%	0.070	0.25	1.53	87.9	0.35	0.020	0.02	11.5	0.687
02:00	19	10.0%	0.050	0.25	1.29	73.8	0.30	0.010	0.01	5.9	0.578
03:00	20	9.0%	0.045	0.25	1.22	69.9	0.29	0.009	0.00	4.8	0.548
04:00	21	9.0%	0.045	0.25	1.22	69.9	0.29	0.009	0.00	4.8	0.548
05:00	22	10.0%	0.050	0.25	1.29	73.8	0.30	0.010	0.01	5.9	0.578
06:00	23	10.0%	0.050	0.25	1.29	73.8	0.30	0.010	0.01	5.9	0.578
			0.050	0.25	1.29	73.8	0.30	0.010	0.01	5.9	0.578
07:00	24	10.0%	0.030	0.20	1.23	10.0	0.00	0.010		0.0	01010
						10.0					
07:00 05.12. 2			Bardov		MP6	70.0		Dpipe		500	mm
						φ				500	
	2007	Outlet h/D	Bardov	ci	МР6			Dpipe	Q _{crtt}		mm
	2007	Outlet h/D (%)	Bardov	ci r m	MP6	Φ (°)	B m	Dpipe A	Q _{crit}	500 Q _{erit}	mm V m/s
05.12.2	2007 No	Outlet h/D	Bardov h m	ći r	MP6 Φ (rad)	φ	В	Dpipe A m²	Q _{crit}	500 Q _{erit}	mm
05.12. 2	No 1	h/D (%) 16.0% 18.0%	h m 0.060	r m 0.25	ΜΡ6 φ (rad) 1.65	φ (°) 94.4	B m 0.37	A m ² 0.020	Q _{crit} m³/s 0.01	500 Q _{crit} I/s 14.9	mm V m/s 0.737
8:00 09:00	No 1 2	h/D (%) 16.0%	h m 0.080	r m 0.25	MP6 φ (rad) 1.65 1.75	φ (°) 94.4 100.5	B m 0.37 0.38	A m ² 0.020 0.024	Q _{crit} m³/s 0.01 0.02	500 Q _{crit} 1/s 14.9 18.8	mm V m/s 0.737 0.783 0.828 0.828
8:00 09:00 10:00 11:00 12:00	No 1 2 3 4 5	h/D (%) 16.0% 18.0% 20.0% 20.0%	h m 0.080 0.090 0.100 0.100	r m 0.25 0.25 0.25 0.25	Φ (rad) 1.65 1.75 1.85 1.85	Φ (°) 94.4 100.5 106.3 106.3	B m 0.37 0.38 0.40 0.40	A m ² 0.020 0.024 0.028	Q _{crit} m ³ /s 0.01 0.02 0.02	500 Q _{erit} 1/s 14.9 18.8 23.1 23.1 23.1	mm V m/s 0.737 0.783 0.828 0.828
8:00 09:00 10:00 11:00 12:00 13:00	No 1 2 3 4 5 6	h/D (%) 16.0% 18.0% 20.0% 20.0%	h m 0.080 0.090 0.100 0.100 0.090	r m 0.25 0.25 0.25 0.25 0.25	Φ (rad) 1.65 1.75 1.85 1.85 1.85	φ (°) 94.4 100.5 106.3 106.3 106.3	B m 0.37 0.38 0.40 0.40 0.40 0.38	Dpipe A m² 0.020 0.024 0.028 0.028 0.028 0.028	Q _{crit} m ³ /s 0.01 0.02 0.02 0.02 0.02	500 Q _{erit} 1/s 14.9 18.8 23.1 23.1 18.8	mm V m/s 0.737 0.783 0.828 0.828 0.828 0.783
8:00 09:00 10:00 11:00 12:00 13:00 14:00	No 1 2 3 4 5	h/D (%) 16.0% 18.0% 20.0% 20.0%	h m 0.080 0.090 0.100 0.100 0.090 0.090	r m 0.25 0.25 0.25 0.25 0.25 0.25	φ (rad) 1.65 1.75 1.85 1.85 1.85 1.75	φ (°) 94.4 100.5 106.3 106.3 100.5 100.5	B m 0.37 0.38 0.40 0.40 0.40 0.38	Dpipe A m² 0.020 0.024 0.028 0.028 0.028	Q _{crit} m ³ /s 0.01 0.02 0.02 0.02 0.02 0.02	500 Q _{erit} 1/s 14.9 18.8 23.1 23.1 16.8 18.8	mm V m/s 0.737 0.783 0.828 0.828 0.828 0.763 0.783
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00	No 1 2 3 4 5 6 7 8	h/D (%) 16.0% 18.0% 20.0% 20.0% 18.0% 18.0%	h m 0.080 0.090 0.100 0.100 0.090 0.090 0.100	r m 0.25 0.25 0.25 0.25 0.25 0.25 0.25	Φ (rad) 1.65 1.75 1.85 1.85 1.85 1.75 1.75	φ (°) 94.4 100.5 106.3 106.3 100.5 100.5	B m 0.37 0.38 0.40 0.40 0.40 0.38 0.38	Dpipe A m² 0.020 0.024 0.028 0.028 0.028 0.024 0.024 0.024 0.024	Q _{crit} m ³ /s 0.01 0.02 0.02 0.02 0.02 0.02 0.02	500 U _{erit} 1/8 14.9 18.8 23.1 23.1 18.8 18.8 23.1	mm V m/s 0.737 0.783 0.828 0.828 0.828 0.763 0.783 0.828
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00	No 1 2 3 4 5 6 7 8	h/D (%) 16.0% 18.0% 20.0% 20.0% 18.0% 18.0% 20.0%	h m 0.080 0.090 0.100 0.100 0.090 0.090 0.100	r m 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	φ (rad) 1.65 1.75 1.85 1.85 1.85 1.75 1.75 1.85	Φ (°) 94.4 100.5 106.3 106.3 100.5 100.5 100.5	B m 0.37 0.38 0.40 0.40 0.38 0.38 0.40	Dpipe M m² 0.020 0.024 0.028 0.028 0.028 0.024 0.024 0.024 0.024 0.023	Q _{crit} m ³ /s 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02	500 U _{erit} 1/8 14.9 18.8 23.1 23.1 18.8 18.8 23.1 27.9	mm V m/s 0.737 0.783 0.828 0.828 0.763 0.783 0.828 0.828 0.871
8:00 09:00 10:00 11:00 12:00 14:00 15:00 16:00 17:00	No 1 2 3 4 5 6 7 8 9	h/D (%) 16.0% 18.0% 20.0% 20.0% 18.0% 18.0% 20.0% 22.0% 20.0%	h m 0.080 0.090 0.100 0.100 0.090 0.100 0.110 0.100	r m 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	Φ (rad) 1.65 1.75 1.85 1.85 1.85 1.75 1.75 1.85	Φ (°) 94.4 100.5 106.3 106.3 100.5 100.5 106.3 111.9 106.3	B m 0.37 0.38 0.40 0.40 0.38 0.38 0.40 0.41 0.40	Dpipe M m² 0.020 0.024 0.028 0.028 0.028 0.024 0.024 0.024 0.028 0.032 0.032	Q _{crit} m ³ /s 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.02	500 U _{erit} 14.9 18.8 23.1 23.1 16.8 18.8 23.1 27.9 23.1	mm V m/s 0.737 0.783 0.828 0.828 0.763 0.783 0.828 0.871 0.828
8:00 09:00 10:00 11:00 12:00 14:00 15:00 16:00 17:00	No 1 2 3 4 5 6 7 8 9 10 11	h/D (%) 16.0% 18.0% 20.0% 20.0% 18.0% 18.0% 20.0% 22.0% 21.0%	h m 0.080 0.090 0.100 0.100 0.090 0.100 0.110 0.100	r m 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	Φ (rad) 1.65 1.75 1.85 1.85 1.75 1.75 1.75 1.85 1.95 1.85	Φ (°) 94.4 100.5 106.3 106.3 100.5 100.5 106.3 111.9 106.3 109.2	B m 0.37 0.38 0.40 0.40 0.38 0.38 0.40 0.41 0.40	Dpipe M m² 0.020 0.024 0.028 0.028 0.024 0.024 0.024 0.028 0.022 0.032 0.030	Q _{crit} m ³ /s 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.02 0.03	500 U _{erit} 14.9 18.8 23.1 23.1 16.8 18.8 23.1 27.9 23.1 27.9 23.1	mm V m/s 0.737 0.783 0.828 0.828 0.763 0.783 0.828 0.871 0.828 0.850
8:00 09:00 10:00 11:00 12:00 14:00 15:00 16:00 17:00 18:00	No 1 2 3 4 4 5 6 7 8 9 10 11 12	h/D (%) 16.0% 18.0% 20.0% 20.0% 18.0% 18.0% 20.0% 22.0% 21.0% 22.0%	h m 0.080 0.090 0.100 0.100 0.090 0.100 0.110 0.100 0.105	r 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	Φ (rad) 1.65 1.75 1.85 1.85 1.75 1.75 1.75 1.85 1.95 1.95	Φ (°) 94.4 100.5 106.3 106.3 100.5 100.5 106.3 111.9 106.3 109.2 111.9	B m 0.37 0.38 0.40 0.40 0.38 0.40 0.41 0.40 0.41	Dpipe M m² 0.020 0.024 0.028 0.028 0.024 0.024 0.024 0.028 0.032 0.032 0.030	Q _{crit} m ³ /s 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.03	500 U _{erit} 14.9 18.8 23.1 23.1 18.8 23.1 27.9 23.1 27.9 23.1 25.5 27.9	mm 0.737 0.783 0.828 0.828 0.763 0.783 0.828 0.871 0.828 0.850 0.871
8:00 09:00 10:00 11:00 12:00 14:00 15:00 16:00 17:00 18:00 19:00	No 1 2 3 4 4 5 6 7 8 8 9 10 11 12 13	h/D (%) 16.0% 18.0% 20.0% 20.0% 18.0% 20.0% 22.0% 21.0% 22.0% 22.0%	h m 0.080 0.100 0.100 0.100 0.100 0.110 0.100 0.105 0.110	r 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	P (rad) 1.65 1.75 1.85 1.85 1.85 1.75 1.85 1.75 1.85 1.95 1.95	Φ (°) 94.4 100.5 106.3 106.3 100.5 100.5 106.3 111.9 106.3 111.9 111.9	B m 0.37 0.38 0.40 0.40 0.38 0.40 0.41 0.40 0.41 0.41	Dpipe M m² 0.020 0.024 0.028 0.028 0.024 0.024 0.028 0.032 0.032 0.032 0.032	Q _{crit} m ³ /s 0.01 0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03	500 U _{erit} 14.9 18.8 23.1 23.1 16.8 18.8 23.1 27.9 23.1 25.5 27.9 27.9	mm 0.737 0.783 0.828 0.828 0.763 0.763 0.783 0.828 0.871 0.828 0.850 0.871
8:00 09:00 10:00 11:00 12:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00	No 1 2 3 4 4 5 6 6 7 8 8 9 10 11 12 13 14	h/D (%) 16.0% 18.0% 20.0% 20.0% 18.0% 20.0% 22.0% 21.0% 22.0% 21.0% 21.0%	h m 0.080 0.100 0.100 0.100 0.100 0.110 0.105 0.110	r 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	P (rad) 1.65 1.75 1.85 1.85 1.75 1.85 1.75 1.75 1.85 1.95 1.95 1.90	Φ (°) 94.4 100.5 106.3 106.3 100.5 100.5 106.3 111.9 106.3 111.9 109.2 111.9	B m 0.37 0.38 0.40 0.40 0.38 0.40 0.41 0.41 0.41 0.41	Dpipe M m² 0.020 0.024 0.028 0.028 0.024 0.024 0.028 0.032 0.032 0.032 0.032	Q _{crit} m ³ /s 0.01 0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03	500 U _{crit} 14.9 18.8 23.1 23.1 18.8 23.1 27.9 23.1 27.9 27.9 27.9 27.9 25.5	mm 0.737 0.783 0.828 0.828 0.763 0.763 0.783 0.828 0.871 0.828 0.850 0.871
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 20:00 21:00 22:00	No 1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15	h/D (%) 16.0% 18.0% 20.0% 20.0% 18.0% 20.0% 22.0% 21.0% 22.0% 21.0% 21.0%	h m 0.080 0.100 0.100 0.100 0.100 0.110 0.105 0.110 0.105	r 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	Φ (rad) 1.65 1.75 1.85 1.85 1.75 1.85 1.75 1.75 1.85 1.95 1.95 1.90 1.90	Φ (°) 94.4 100.5 106.3 106.3 100.5 100.5 100.5 106.3 111.9 106.3 111.9 111.9 111.9 109.2	B m 0.37 0.38 0.40 0.40 0.38 0.40 0.41 0.41 0.41 0.41 0.41	Dpipe M m² 0.020 0.024 0.028 0.028 0.024 0.024 0.028 0.032 0.032 0.030 0.030	Q _{crit} m ³ /s 0.01 0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03	500 U _{crit} 14.9 18.8 23.1 23.1 18.8 23.1 27.9 23.1 27.9 27.9 27.9 27.9 25.5 27.9	mm V m/s 0.737 0.783 0.828 0.828 0.763 0.763 0.828 0.871 0.828 0.850 0.871 0.850 0.871
8:00 09:00 10:00 11:00 12:00 14:00 15:00 16:00 17:00 19:00 20:00 21:00 22:00 23:00	No 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	h/D (%) 16.0% 18.0% 20.0% 20.0% 18.0% 20.0% 21.0% 21.0% 21.0% 21.0% 21.0%	h m 0.080 0.100 0.100 0.100 0.100 0.110 0.105 0.110 0.105 0.105	r m 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	P (rad) 1.65 1.75 1.85 1.85 1.75 1.85 1.75 1.95 1.95 1.90 1.90 1.90	Φ (°) 94.4 100.5 106.3 106.3 100.5 106.3 111.9 106.3 109.2 111.9 109.2 109.2 109.2	B m 0.37 0.38 0.40 0.40 0.38 0.40 0.41 0.41 0.41 0.41 0.41 0.41 0.41	Dpipe M m² 0.020 0.024 0.028 0.028 0.024 0.024 0.028 0.032 0.032 0.030 0.030 0.030 0.030	Q _{crit} m ³ /s 0.01 0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03	500 Q _{crit} 1/8 14.9 18.8 23.1 23.1 18.8 23.1 27.9 23.1 25.5 27.9 27.9 25.5 27.9 25.5 20.9	mm 0.737 0.783 0.828 0.828 0.763 0.763 0.763 0.828 0.871 0.828 0.850 0.871 0.850
8:00 09:00 10:00 11:00 13:00 14:00 15:00 16:00 17:00 20:00 21:00 22:00 23:00 00:00	No 1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17	h/D (%) 16.0% 18.0% 20.0% 20.0% 18.0% 20.0% 22.0% 21.0% 22.0% 21.0% 21.0% 21.0%	h m 0.080 0.090 0.100 0.100 0.090 0.100 0.110 0.105 0.110 0.105 0.105	r m 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	P (rad) 1.65 1.75 1.85 1.85 1.75 1.85 1.75 1.95 1.95 1.90 1.90 1.80 1.75	Φ (°) 94.4 100.5 106.3 106.3 100.5 106.3 111.9 106.3 109.2 111.9 109.2 109.2 103.4 100.5	B m 0.37 0.38 0.40 0.40 0.38 0.40 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.43	Dpipe M m² 0.020 0.024 0.028 0.028 0.024 0.024 0.028 0.032 0.032 0.032 0.032 0.030 0.030 0.030 0.030	0.01 0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03	500 Q _{crit} 1/8 14.9 18.8 23.1 23.1 18.8 23.1 27.9 23.1 25.5 27.9 25.5 27.9 25.5 20.9 18.8	mm V m/s 0.737 0.783 0.828 0.828 0.763 0.783 0.828 0.871 0.828 0.871 0.850 0.871 0.850 0.871
8:00 09:00 10:00 11:00 12:00 14:00 15:00 16:00 17:00 20:00 21:00 22:00 23:00 00:00	No 1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18	h/D (%) 16.0% 18.0% 20.0% 20.0% 18.0% 20.0% 21.0% 22.0% 21.0% 21.0% 21.0% 21.0%	h m 0.080 0.100 0.100 0.100 0.100 0.110 0.105 0.110 0.105 0.105 0.095 0.090	r m 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	P (rad) 1.65 1.75 1.85 1.85 1.75 1.85 1.75 1.95 1.95 1.90 1.90 1.90 1.80 1.75 1.65	Φ (°) 94.4 100.5 106.3 106.3 106.3 106.3 111.9 106.3 111.9 109.2 111.9 109.2 109.4 100.5 94.4	B m 0.37 0.38 0.40 0.40 0.38 0.40 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.43 0.43 0.43 0.43 0.43 0.43 0.40	Dpipe M m² 0.020 0.024 0.028 0.028 0.024 0.024 0.028 0.032 0.032 0.032 0.030 0.030 0.030 0.030 0.026 0.024	0.01 0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03	500 Q _{crit} 1/8 14.9 18.8 23.1 23.1 18.8 23.1 27.9 23.1 25.5 27.9 25.5 27.9 25.5 20.9 18.8 14.9	mm V m/s 0.737 0.783 0.828 0.828 0.763 0.763 0.828 0.871 0.828 0.871 0.850 0.871 0.850 0.873 0.850
8:00 09:00 10:00 11:00 12:00 14:00 15:00 16:00 17:00 20:00 21:00 22:00 23:00 00:00 01:00	No 1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19	h/D (%) 16.0% 18.0% 20.0% 20.0% 18.0% 20.0% 22.0% 21.0% 21.0% 21.0% 21.0% 21.0% 18.0%	h m 0.080 0.090 0.100 0.100 0.090 0.100 0.110 0.105 0.110 0.105 0.105 0.095 0.090	r m 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	P (rad) 1.65 1.75 1.85 1.85 1.75 1.85 1.75 1.95 1.95 1.90 1.90 1.90 1.80 1.75 1.48	Φ (°) 94.4 100.5 106.3 106.3 106.3 100.5 106.3 111.9 106.3 111.9 109.2 111.9 109.2 109.2 103.4 100.5 94.4 84.6	0.37 0.38 0.40 0.40 0.38 0.40 0.38 0.40 0.41 0.41 0.41 0.41 0.41 0.41 0.39 0.38 0.37	Dpipe M m² 0.020 0.024 0.028 0.028 0.024 0.024 0.028 0.032 0.032 0.032 0.030 0.030 0.030 0.030 0.030 0.030 0.030	0.01 0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03	500 Q _{crit} 1/8 14.9 18.8 23.1 23.1 18.8 23.1 27.9 23.1 25.5 27.9 25.5 27.9 25.5 20.9 18.8 14.9 9.9	mm 0.737 0.783 0.828 0.828 0.763 0.783 0.828 0.871 0.828 0.871 0.850 0.871 0.850 0.871 0.850 0.873 0.850
8:00 09:00 10:00 11:00 12:00 14:00 15:00 16:00 17:00 20:00 21:00 22:00 23:00 00:00 01:00 03:00	No 1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	h/D (%) 16.0% 18.0% 20.0% 20.0% 18.0% 20.0% 22.0% 22.0% 21.0% 21.0% 21.0% 21.0% 18.0% 9.0%	h m 0.080 0.090 0.100 0.100 0.090 0.100 0.110 0.105 0.110 0.105 0.105 0.095 0.095	r m 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	P (rad) 1.65 1.75 1.85 1.85 1.75 1.85 1.75 1.85 1.95 1.90 1.90 1.90 1.80 1.75 1.65 1.48	Φ (°) 94.4 100.5 106.3 106.3 106.3 100.5 106.3 111.9 106.3 111.9 109.2 111.9 109.2 103.4 100.5 94.4 84.6 69.9	0.37 0.38 0.40 0.40 0.38 0.40 0.38 0.40 0.41 0.41 0.41 0.41 0.41 0.41 0.39 0.38 0.37	Dpipe M m² 0.020 0.024 0.028 0.028 0.024 0.024 0.028 0.032 0.032 0.032 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030	0.01 0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03	500 Q _{crit} 1/8 14.9 18.8 23.1 23.1 18.8 23.1 27.9 23.1 25.5 27.9 25.5 27.9 25.5 20.9 18.8 14.9 9.9 4.8	mm 0.737 0.783 0.828 0.828 0.763 0.763 0.783 0.828 0.871 0.850 0.871 0.850 0.871 0.850 0.850 0.873 0.850
8:00 09:00 10:00 11:00 12:00 14:00 15:00 16:00 17:00 20:00 21:00 22:00 23:00 00:00 01:00 02:00 03:00 04:00	No 1 2 3 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21	h/D (%) 16.0% 18.0% 20.0% 20.0% 18.0% 18.0% 22.0% 22.0% 21.0% 21.0% 21.0% 18.0% 18.0% 18.0%	h m 0.080 0.100 0.100 0.100 0.100 0.100 0.110 0.110 0.110 0.105 0.110 0.105 0.095 0.095	r m 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	P (rad) 1.65 1.75 1.85 1.85 1.75 1.75 1.85 1.95 1.95 1.90 1.90 1.90 1.80 1.75 1.65 1.48 1.22 1.15	Φ (°) 94.4 100.5 106.3 106.3 106.3 100.5 100.5 106.3 111.9 109.2 111.9 109.2 109.2 103.4 100.5 94.4 84.6 69.9 65.8	0.37 0.38 0.40 0.40 0.38 0.38 0.40 0.41 0.41 0.41 0.41 0.41 0.39 0.38 0.37 0.39	Dpipe M m² 0.020 0.024 0.028 0.028 0.024 0.024 0.028 0.032 0.032 0.032 0.030	0.01 0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03	500 Q _{erit} I/s 14.9 18.8 23.1 23.1 18.8 23.1 27.9 23.1 25.5 27.9 25.5 27.9 25.5 20.9 18.8 14.9 9.9 4.8 3.8	mm 0.737 0.783 0.828 0.828 0.763 0.763 0.783 0.828 0.871 0.850 0.871 0.850 0.850 0.850 0.850 0.850 0.850
8:00 09:00 10:00 11:00 12:00 14:00 15:00 16:00 17:00 20:00 21:00 22:00 23:00 00:00 01:00 03:00	No 1 2 3 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	h/D (%) 16.0% 18.0% 20.0% 20.0% 18.0% 20.0% 22.0% 22.0% 21.0% 21.0% 21.0% 21.0% 18.0% 9.0%	h m 0.080 0.100 0.100 0.100 0.090 0.100 0.110 0.105 0.110 0.105 0.095 0.095 0.080	r m 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	P (rad) 1.65 1.75 1.85 1.85 1.75 1.75 1.85 1.95 1.95 1.90 1.90 1.90 1.80 1.75 1.65 1.48 1.22 1.15	Φ (°) 94.4 100.5 106.3 106.3 106.3 100.5 106.3 111.9 106.3 111.9 109.2 111.9 109.2 103.4 100.5 94.4 84.6 69.9	0.37 0.38 0.40 0.40 0.38 0.40 0.38 0.40 0.41 0.41 0.41 0.41 0.41 0.41 0.39 0.38 0.37	Dpipe M m² 0.020 0.024 0.028 0.028 0.024 0.024 0.028 0.032 0.032 0.032 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030	0.01 0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03	500 Q _{crit} 1/8 14.9 18.8 23.1 23.1 18.8 23.1 27.9 23.1 25.5 27.9 25.5 27.9 25.5 20.9 18.8 14.9 9.9 4.8	mm 0.737 0.783 0.828 0.828 0.763 0.763 0.783 0.828 0.871 0.850 0.871 0.850 0.871 0.850 0.850 0.873 0.850

27.11.2	007	Outlet	Pivara	ı	MP9			Dplpe		1,000	mm
	No	h/D	<u> </u>	R			В				v
	MO	_	h		φ (and)	φ (º)	В	A m²	Q _{crit} m³/s	Q _{crit}	
8:00	1	(%) 18.0%	0.18	m 0.50	(rad) 1.75	100.5	0.77	0.096	0.11	107	m/s 1.108
09:00	2	20.0%	0.20	0.50	1.85	106.3	0.80	0.030	0.13	131	1.171
10:00	3	22.0%	0.22	0.50	1.95	111.9	0.83	0.128	0.16	158	1.232
11:00	4	24.0%	0.24	0.50	2.05	117.4	0.85	0.145	0.19	187	1.290
12:00	5	25.0%	0.25	0.50	2.09	120.1	0.87	0.154	0.20	203	1.319
13:00	6	27.0%	0.27	0.50	2.19	125.3	0.89	0.171	0.24	235	1.375
14:00	7	25.0%	0.25	0.50	2.09	120.1	0.87	0.154	0.20	203	1.319
15:00	8	22.0%	0.22	0.50	1.95	111.9	0.83	0.128	0.16	158	1.232
16:00	9	20.0%	0.20	0.50	1.85	106.3	0.80	0.112	0.13	131	1.171
17:00 18:00	10 11	20.0%	0.20	0.50	1.85 1.85	106.3 106.3	0.80	0.112 0.112	0.13 0.13	131 131	1.171 1.171
19:00	12	20.0%	0.20	0.50	1.85	106.3	0.80	0.112	0.13	131	1.171
20:00	13	20.0%	0.20	0.50	1.85	106.3	0.80	0.112	0.13	131	1.171
21:00	14	40.0%	0.40	0.50	2.74	157.0	0.98	0.293	0.50	503	1.714
22:00	15	35.0%	0.35	0.50	2.53	145.2	0.95	0.245	0.39	389	1.587
23:00	16	45.0%	0.45	0.50	2.94	168.6	0.99	0.343	0.63	630	1.638
00:00	17	45.0%	0.45	0.50	2.94	168.6	0.99	0.343	0.63	630	1.638
01:00	18	45.0%	0.45	0.50	2.94	168.6	0.99	0.343	0.63	630	1.638
02:00	19	45.0%	0.45	0.50	2.94	168.6	0.99	0.343	0.63	630	1.838
03:00	20	35.0%	0.35	0.50	2.53	145.2	0.95	0.245	0.39	389	1.587
04:00	21	30.0%	0.30	0.50	2.32	132.9	0.92	0.198	0.29	289	1.456
05:00	22	25.0%	0.25	0.50	2.09	120.1	0.87	0.154	0.20	203	1.319
06:00 07:00	23 24	15.0% 15.0%	0.15	0.50	1.59 1.59	91.2 91.2	0.71	0.074 0.074	0.07	74 74	1.007 1.007
07.00	24	13.076	0.15	0.50	1.38	81.2	0.71	0.074	0.07	74	1.007
05.12.2					_						
	007 I	Outlet	Dhrara	1	MDQ			Dolog		4 000	mm
U3.1Z.Z	007	Outlet	Plvara	1	MP9			Dplpe		1,000	mm
05.12.2	No	Outlet h/D	Pivara	r	MP9 Φ	φ	В	Dplpe	Q _{erk}		mm
03.12.2		h/D				φ (၅)	B		Q _{erit}	1,000 Q _{erit}	
8:00			h	г	φ			Α	Q _{erit} m³/s 0.10	Q _{crit}	٧
	No	h/D (%) 17.0% 19.0%	h m	r m	φ (rad)	(º)	m	A m²	m³/s	Q _{crit}	V m/s
8:00	No 1	h/D (%) 17.0% 19.0% 22.0%	h m 0.17 0.19	m 0.50 0.50 0.50	φ (rad) 1.70 1.80 1.95	(°) 97.4 103.4 111.9	m 0.75	A m ² 0.089 0.104 0.128	m³/s 0.10	Q _{orit} I/s 95 118 158	V m/s 1.075 1.140 1.232
8:00 09:00 10:00 11:00	1 2 3 4	h/D (%) 17.0% 19.0% 22.0% 24.0%	h m 0.17 0.19 0.22 0.24	m 0.50 0.50 0.50 0.50	φ (rad) 1.70 1.80 1.95 2.05	(°) 97.4 103.4 111.9 117.4	m 0.75 0.78 0.83 0.85	A m ² 0.089 0.104 0.128 0.145	m³/s 0.10 0.12 0.16 0.19	Q _{crit} I/s 95 118 158 187	V m/s 1.075 1.140 1.232 1.290
8:00 09:00 10:00 11:00 12:00	1 2 3 4 5	h/D (%) 17.0% 19.0% 22.0% 24.0%	h m 0.17 0.19 0.22 0.24 0.24	m 0.50 0.50 0.50 0.50 0.50	φ (rad) 1.70 1.80 1.95 2.05 2.05	(°) 97.4 103.4 111.9 117.4 117.4	0.75 0.78 0.83 0.85 0.85	A m ² 0.089 0.104 0.128 0.145 0.145	m ³ /s 0.10 0.12 0.16 0.19 0.19	Q _{crit} 1/s 95 118 158 187	V m/s 1.075 1.140 1.232 1.290 1.290
8:00 09:00 10:00 11:00 12:00 13:00	1 2 3 4 5	h/D (%) 17.0% 19.0% 22.0% 24.0% 24.0%	h m 0.17 0.19 0.22 0.24 0.24	m 0.50 0.50 0.50 0.50 0.50	φ (rad) 1.70 1.80 1.95 2.05 2.05 2.14	(°) 97.4 103.4 111.9 117.4 117.4 122.7	m 0.75 0.78 0.83 0.85 0.85	M ² 0.089 0.104 0.128 0.145 0.145 0.162	m³/s 0.10 0.12 0.16 0.19 0.19 0.22	Q _{crit} 1/s 95 118 158 187 187	V m/s 1.075 1.140 1.232 1.290 1.290 1.347
8:00 09:00 10:00 11:00 12:00 13:00 14:00	1 2 3 4 5 6 7	h/D (%) 17.0% 19.0% 22.0% 24.0% 24.0% 26.0%	h m 0.17 0.19 0.22 0.24 0.24 0.26 0.27	m 0.50 0.50 0.50 0.50 0.50 0.50	φ (red) 1.70 1.80 1.95 2.05 2.05 2.14 2.19	(°) 97.4 103.4 111.9 117.4 117.4 122.7 125.3	m 0.75 0.78 0.83 0.85 0.85 0.88	A m² 0.089 0.104 0.128 0.145 0.145 0.162 0.171	m³/s 0.10 0.12 0.16 0.19 0.19 0.22 0.24	Q _{crit} 1/s 95 118 158 187 187 219 235	V m/s 1.075 1.140 1.232 1.290 1.290 1.347 1.375
8:00 09:00 10:00 11:00 12:00 13:00 14:00	1 2 3 4 5 6 7 8	h/D (%) 17.0% 19.0% 22.0% 24.0% 24.0% 26.0% 27.0%	h m 0.17 0.19 0.22 0.24 0.24 0.26 0.27	0.50 0.50 0.50 0.50 0.50 0.50 0.50	φ (rad) 1.70 1.80 1.95 2.05 2.05 2.14 2.19	(°) 97.4 103.4 111.9 117.4 117.4 122.7 125.3 132.9	0.75 0.78 0.83 0.85 0.85 0.88 0.89	A m ² 0.089 0.104 0.128 0.145 0.145 0.162 0.171 0.198	m³/s 0.10 0.12 0.16 0.19 0.22 0.24 0.29	Q _{crit} 1/s 95 118 158 187 187 219 235	w/s 1.075 1.140 1.232 1.290 1.290 1.347 1.375
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00	1 2 3 4 5 6 7 8 9	h/D (%) 17.0% 19.0% 22.0% 24.0% 26.0% 27.0% 30.0%	n 0.17 0.19 0.22 0.24 0.24 0.26 0.27 0.30 0.25	m 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	φ (rad) 1.70 1.80 1.95 2.05 2.05 2.14 2.19 2.32 2.09	(°) 97.4 103.4 111.9 117.4 117.4 122.7 125.3 132.9 120.1	0.75 0.78 0.83 0.85 0.85 0.88 0.89 0.92	A m ² 0.089 0.104 0.128 0.145 0.145 0.162 0.171 0.198 0.154	m ³ /s 0.10 0.12 0.16 0.19 0.22 0.24 0.29 0.20	Q _{crit} 1/s 95 118 158 187 187 219 235 289 203	w/s 1.075 1.140 1.232 1.290 1.290 1.347 1.375 1.458 1.319
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00	1 2 3 4 5 6 7 7 8 9 10	h/D (%) 17.0% 19.0% 22.0% 24.0% 24.0% 27.0% 30.0% 25.0% 22.0%	h m 0.17 0.19 0.22 0.24 0.26 0.27 0.30 0.25	m 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	φ (rsd) 1.70 1.80 1.95 2.05 2.14 2.19 2.32 2.09 1.95	(°) 97.4 103.4 111.9 117.4 117.4 122.7 125.3 132.9 120.1 111.9	0.75 0.78 0.83 0.85 0.85 0.88 0.89 0.92 0.87 0.83	A m ² 0.089 0.104 0.128 0.145 0.145 0.162 0.171 0.198 0.154	m³/s 0.10 0.12 0.16 0.19 0.22 0.24 0.29 0.20 0.16	Q _{crit} 1/s 95 118 158 187 187 219 235 289 203 158	w/s 1.075 1.140 1.232 1.290 1.290 1.347 1.375 1.456 1.319
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 17:00 18:00	1 2 3 4 5 6 7 8 9	h/D (%) 17.0% 19.0% 22.0% 24.0% 24.0% 27.0% 30.0% 25.0% 22.0%	h 0.17 0.19 0.22 0.24 0.26 0.27 0.30 0.25 0.22	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	φ (rsd) 1.70 1.80 1.95 2.05 2.14 2.19 2.32 2.09 1.95	(°) 97.4 103.4 111.9 117.4 117.4 122.7 125.3 132.9 120.1 111.9	m 0.75 0.83 0.85 0.85 0.88 0.89 0.92 0.97 0.83	A m ² 0.089 0.104 0.128 0.145 0.145 0.162 0.171 0.198 0.154 0.128	m³/s 0.10 0.12 0.16 0.19 0.22 0.24 0.29 0.20 0.16	Q _{crit} 1/s 95 118 158 187 187 219 235 289 203 158	w/s 1.075 1.140 1.232 1.290 1.290 1.347 1.375 1.458 1.319
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00	1 2 3 4 5 6 7 8 9 10 11	h/D (%) 17.0% 19.0% 22.0% 24.0% 24.0% 27.0% 30.0% 25.0% 22.0% 22.0%	h m 0.17 0.19 0.22 0.24 0.26 0.26 0.27 0.30 0.25 0.22 0.22	m 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	φ (rad) 1.70 1.80 1.95 2.05 2.05 2.14 2.19 2.32 2.09 1.95 1.95	(°) 97.4 103.4 111.9 117.4 117.4 122.7 125.3 132.9 120.1 111.9 111.9	m 0.75 0.78 0.83 0.85 0.85 0.89 0.92 0.87 0.83 0.83	A m ² 0.089 0.104 0.128 0.145 0.145 0.162 0.171 0.198 0.154	m³/s 0.10 0.12 0.16 0.19 0.22 0.24 0.29 0.20 0.16	Q _{crit} 1/s 95 118 158 187 187 219 235 289 203 158 158	V m/s 1.075 1.140 1.232 1.290 1.347 1.375 1.456 1.319 1.232
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 17:00 18:00	1 2 3 4 5 6 6 7 7 8 9 10 11 12 13	h/D (%) 17.0% 19.0% 22.0% 24.0% 24.0% 27.0% 30.0% 25.0% 22.0% 22.0% 22.0%	h m 0.17 0.19 0.22 0.24 0.26 0.27 0.30 0.25 0.22 0.22	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	φ (rad) 1.70 1.80 1.95 2.05 2.05 2.14 2.19 2.32 2.09 1.95 1.95 2.09	(°) 97.4 103.4 111.9 117.4 122.7 125.3 132.9 120.1 111.9 111.9 120.1	m 0.75 0.78 0.83 0.85 0.85 0.88 0.89 0.92 0.87 0.83 0.83 0.83	A m² 0.089 0.104 0.128 0.145 0.145 0.162 0.171 0.198 0.154 0.128 0.128 0.128 0.154	m³/s 0.10 0.12 0.16 0.19 0.22 0.24 0.29 0.16 0.16 0.16 0.16 0.20 0.20	Q _{crit} 1/s 95 118 158 187 187 219 235 235 203 158 158 158	V m/s 1.075 1.140 1.232 1.290 1.347 1.375 1.456 1.319 1.232 1.232 1.232
8:00 09:00 10:00 11:00 12:00 13:00 15:00 17:00 18:00 20:00 21:00 22:00	1 2 3 4 4 5 6 6 7 7 8 9 10 11 12 13 14 15	h/D (%) 17.0% 19.0% 22.0% 24.0% 24.0% 26.0% 27.0% 30.0% 22.0% 22.0% 22.0% 22.0% 25.0% 19.0%	h m 0.17 0.19 0.22 0.24 0.26 0.27 0.30 0.25 0.22 0.22 0.25 0.25 0.19	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	φ (rad) 1.70 1.80 1.95 2.05 2.05 2.14 2.19 2.32 2.09 1.95 1.95 1.95 2.09 1.80	(°) 97.4 103.4 111.9 117.4 117.4 122.7 125.3 120.1 111.9 111.9 120.1 120.1 120.1 103.4	m 0.75 0.78 0.85 0.86 0.89 0.92 0.97 0.83 0.83 0.83 0.87	A m² 0.089 0.104 0.128 0.145 0.145 0.162 0.171 0.198 0.154 0.128 0.128 0.128 0.154 0.154	m³/s 0.10 0.12 0.16 0.19 0.22 0.24 0.29 0.16 0.16 0.16 0.16 0.20 0.20 0.12	Q _{crit} 1/s 95 118 158 187 187 219 235 259 203 158 158 203 203 118	V m/s 1.075 1.140 1.232 1.290 1.345 1.319 1.232 1.232 1.319 1.140
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 17:00 18:00 20:00 21:00 22:00 23:00	1 2 3 4 4 5 5 6 6 7 7 8 9 9 10 11 12 13 13 14 15 16	h/D (%) 17.0% 19.0% 22.0% 24.0% 26.0% 27.0% 30.0% 22.0% 22.0% 22.0% 22.0% 25.0% 25.0% 20.0%	h m 0.17 0.19 0.22 0.24 0.26 0.27 0.30 0.25 0.22 0.22 0.25 0.25 0.19 0.20	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	φ (rad) 1.70 1.80 1.95 2.05 2.05 2.14 2.19 2.32 2.09 1.95 1.95 2.09 1.80 1.85	(°) 97.4 103.4 111.9 117.4 122.7 125.3 120.1 111.9 111.9 120.1 120.1 103.4 106.3	m 0.75 0.78 0.85 0.85 0.86 0.89 0.92 0.87 0.83 0.83 0.83 0.87 0.87	A m² 0.089 0.104 0.128 0.145 0.145 0.165 0.171 0.154 0.128 0.128 0.128 0.128 0.154 0.154 0.104	m ³ /s 0.10 0.12 0.16 0.19 0.22 0.24 0.29 0.16 0.16 0.16 0.16 0.20 0.12 0.12	Q _{crit} 1/s 95 118 158 187 187 219 235 259 203 158 158 203 203 118 131	V m/s 1.075 1.140 1.232 1.290 1.347 1.375 1.456 1.319 1.232 1.232 1.232 1.319 1.140 1.171
8:00 09:00 10:00 11:00 13:00 14:00 15:00 17:00 16:00 20:00 21:00 22:00 23:00 00:00	1 2 3 4 4 5 5 6 7 7 8 8 9 9 10 11 12 13 13 14 15 16 17	h/D (%) 17.0% 19.0% 22.0% 24.0% 26.0% 27.0% 30.0% 25.0% 22.0% 22.0% 25.0% 25.0% 19.0%	h m 0.17 0.19 0.22 0.24 0.26 0.27 0.30 0.25 0.22 0.22 0.25 0.19 0.25 0.15	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	φ (rad) 1.70 1.80 1.95 2.05 2.05 2.14 2.19 2.32 2.09 1.95 1.95 2.09 1.80 1.85	(°) 97.4 103.4 111.9 117.4 117.4 122.7 125.3 120.1 111.9 111.9 120.1 120.1 103.4 106.3 91.2	m 0.75 0.78 0.85 0.86 0.89 0.92 0.87 0.83 0.83 0.83 0.87 0.87	A m² 0.089 0.104 0.128 0.145 0.145 0.165 0.171 0.198 0.128 0.128 0.128 0.129 0.154 0.154 0.104	m ³ /s 0.10 0.12 0.16 0.19 0.22 0.24 0.29 0.16 0.16 0.16 0.16 0.20 0.12 0.13 0.07	Q _{crit} 1/s 95 118 158 187 187 219 235 289 203 158 158 203 158 158 158 158 74	V m/s 1.075 1.140 1.232 1.290 1.347 1.375 1.458 1.319 1.232 1.232 1.319 1.140 1.171 1.007
8:00 09:00 10:00 11:00 13:00 14:00 15:00 16:00 16:00 20:00 21:00 22:00 23:00 00:00 01:00	1 2 3 4 4 5 5 6 6 7 7 8 8 9 10 11 12 13 13 14 4 15 16 17 18	h/D (%) 17.0% 19.0% 24.0% 24.0% 26.0% 27.0% 25.0% 22.0% 25.0% 25.0% 25.0% 15.0%	h m 0.17 0.19 0.22 0.24 0.26 0.27 0.30 0.25 0.22 0.22 0.25 0.15 0.15 0.15	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	φ (rad) 1.70 1.80 1.95 2.05 2.05 2.14 2.19 2.32 2.09 1.95 2.09 1.80 1.85 1.59	(°) 97.4 103.4 111.9 117.4 117.4 122.7 125.3 120.1 111.9 111.9 120.1 103.4 106.3 91.2 91.2	m 0.75 0.78 0.83 0.85 0.85 0.89 0.92 0.87 0.83 0.83 0.87 0.78 0.87	A m² 0.104 0.128 0.145 0.145 0.162 0.171 0.198 0.154 0.128 0.128 0.154 0.154 0.154 0.154 0.154 0.104 0.174	m³/s 0.10 0.12 0.16 0.19 0.22 0.24 0.29 0.16 0.16 0.16 0.16 0.20 0.16 0.20 0.12 0.12 0.07	Q _{crit} 1/s 95 118 158 187 187 219 235 289 203 158 158 203 203 118 131 74	V m/s 1.075 1.140 1.232 1.290 1.347 1.375 1.458 1.319 1.232 1.232 1.319 1.140 1.171 1.007 1.007
8:00 09:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 20:00 21:00 22:00 02:00	No 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 19 10 11 11 11 11 11 11 11 11 11	h/D (%) 17.0% 19.0% 24.0% 24.0% 26.0% 27.0% 30.0% 25.0% 22.0% 25.0% 25.0% 25.0% 25.0% 25.0% 20.0% 20.0%	h m 0.17 0.19 0.22 0.24 0.26 0.27 0.30 0.25 0.22 0.25 0.25 0.19 0.20 0.15 0.20	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	φ (rad) 1.70 1.80 1.95 2.05 2.14 2.19 2.32 2.09 1.95 1.95 2.09 1.80 1.85 1.59 1.85	(°) 97.4 103.4 111.9 117.4 117.4 122.7 125.3 132.9 120.1 111.9 111.9 120.1 103.4 106.3 91.2 91.2 108.3	m 0.75 0.83 0.85 0.85 0.88 0.89 0.92 0.87 0.83 0.83 0.87 0.71 0.71	A m² 0.104 0.128 0.145 0.145 0.162 0.171 0.198 0.154 0.128 0.128 0.154 0.154 0.154 0.104 0.112	m ³ /s 0.10 0.12 0.16 0.19 0.22 0.24 0.29 0.20 0.16 0.16 0.16 0.10 0.20 0.12 0.13 0.07 0.07	Q _{crit} 1/s 95 118 158 187 187 219 235 289 203 158 158 203 203 118 131 74 74 131	N/s 1.075 1.140 1.232 1.290 1.290 1.347 1.375 1.456 1.319 1.232 1.232 1.319 1.140 1.171 1.007 1.007
8:00 09:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 20:00 21:00 22:00 02:00 01:00 02:00 03:00	No 1 2 3 3 4 4 5 5 6 6 7 7 8 1 1 1 1 1 2 1 1 3 1 1 4 1 5 1 6 1 6 1 7 7 1 8 1 9 2 0 2 0	h/D (%) 17.0% 19.0% 22.0% 24.0% 26.0% 27.0% 30.0% 25.0% 22.0% 25.0% 25.0% 15.0% 15.0% 15.0%	h m 0.17 0.19 0.22 0.24 0.26 0.27 0.30 0.25 0.22 0.22 0.25 0.15 0.15 0.20 0.15	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	P (rad) 1.70 1.80 1.95 2.05 2.14 2.19 2.32 2.09 1.95 1.95 2.09 1.85 1.59	(°) 97.4 103.4 111.9 117.4 117.4 122.7 125.3 132.9 120.1 111.9 111.9 120.1 120.1 103.4 106.3 91.2 91.2	m 0.75 0.83 0.85 0.85 0.89 0.92 0.87 0.83 0.83 0.87 0.71 0.71 0.80 0.71	A m² 0.104 0.128 0.145 0.145 0.162 0.171 0.198 0.154 0.128 0.154 0.154 0.154 0.112 0.074 0.074	m³/s 0.10 0.12 0.16 0.19 0.22 0.24 0.29 0.16 0.16 0.16 0.16 0.20 0.12 0.13 0.07 0.07	Q _{crit} 1/s 95 118 158 187 187 219 235 289 203 158 158 203 213 118 131 74 74	V m/s 1.075 1.140 1.232 1.290 1.347 1.375 1.456 1.319 1.232 1.232 1.319 1.140 1.171 1.007 1.007 1.171 1.007
8:00 09:00 10:00 12:00 13:00 14:00 16:00 17:00 18:00 20:00 21:00 22:00 23:00 01:00 02:00 03:00 04:00	No 1 2 3 4 5 5 6 6 7 7 8 9 10 11 12 13 14 15 16 16 17 18 19 20 21	h/D (%) 17.0% 19.0% 22.0% 24.0% 26.0% 27.0% 30.0% 25.0% 22.0% 25.0% 25.0% 25.0% 19.0% 20.0% 15.0% 15.0%	h m 0.17 0.19 0.22 0.24 0.26 0.27 0.30 0.25 0.22 0.22 0.25 0.15 0.15 0.15 0.15 0.14	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	P (rad) 1.70 1.80 1.95 2.05 2.14 2.19 2.32 2.09 1.95 1.95 2.09 1.85 1.59 1.59 1.59	(°) 97.4 103.4 111.9 117.4 117.4 122.7 125.3 132.9 120.1 111.9 111.9 120.1 120.1 103.4 106.3 91.2 91.2 87.9	m 0.75 0.83 0.85 0.85 0.89 0.92 0.87 0.83 0.63 0.67 0.71 0.71 0.80 0.71	A m² 0.104 0.128 0.145 0.145 0.162 0.171 0.198 0.154 0.128 0.154 0.154 0.154 0.104 0.1074 0.074 0.074	m³/s 0.10 0.12 0.16 0.19 0.22 0.24 0.29 0.16 0.16 0.16 0.16 0.20 0.12 0.13 0.07 0.07 0.07 0.07	Q _{crit} 1/s 95 118 158 187 187 219 235 289 203 158 158 158 158 178 174 74 131 74 65	V m/s 1.075 1.140 1.232 1.290 1.347 1.375 1.456 1.319 1.232 1.232 1.319 1.140 1.171 1.007 1.007 1.007 0.972
8:00 09:00 10:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 20:00 21:00 23:00 00:00 01:00 02:00 03:00 04:00 05:00	No 1 2 3 4 4 5 6 6 7 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	h/D (%) 17.0% 19.0% 22.0% 24.0% 26.0% 27.0% 30.0% 25.0% 22.0% 25.0% 25.0% 19.0% 20.0% 15.0% 15.0% 14.0%	h m 0.17 0.19 0.22 0.24 0.26 0.27 0.30 0.25 0.22 0.25 0.19 0.25 0.15 0.15 0.15 0.15 0.14 0.12	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	P (rad) 1.70 1.80 1.95 2.05 2.14 2.19 2.32 2.09 1.95 1.95 2.09 1.80 1.85 1.59 1.59 1.53 1.41	(°) 97.4 103.4 111.9 117.4 117.4 122.7 125.3 132.9 120.1 111.9 111.9 120.1 120.1 103.4 106.3 91.2 91.2 106.3 91.2 87.9 81.1	m 0.75 0.83 0.85 0.85 0.88 0.89 0.92 0.87 0.83 0.83 0.87 0.71 0.71 0.71 0.69 0.65	0.089 0.104 0.128 0.145 0.145 0.162 0.171 0.154 0.128 0.128 0.128 0.154 0.154 0.104 0.104 0.104 0.1074 0.074 0.074 0.074	m ³ /s 0.10 0.12 0.16 0.19 0.22 0.24 0.29 0.16 0.16 0.16 0.10 0.10 0.10 0.10 0.10	Q _{crit} 1/s 95 118 158 187 187 219 235 289 203 158 158 158 174 131 74 74 131 74 85	V m/s 1.075 1.140 1.232 1.290 1.347 1.375 1.456 1.319 1.232 1.232 1.319 1.110 1.007 1.007 1.007 1.007 0.972 0.898
8:00 09:00 10:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 20:00 21:00 22:00 23:00 00:00 01:00 02:00 03:00 04:00 06:00	No 1 2 3 3 4 5 5 6 6 7 7 8 9 10 11 12 13 14 15 16 16 17 18 19 20 21 22 23 23	h/D (%) 17.0% 19.0% 22.0% 24.0% 25.0% 25.0% 25.0% 25.0% 21.0% 15.0% 15.0% 14.0% 12.0%	h m 0.17 0.19 0.22 0.24 0.26 0.27 0.30 0.25 0.22 0.25 0.15 0.15 0.15 0.15 0.15 0.14 0.12 0.12	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	P (rad) 1.70 1.80 1.95 2.05 2.14 2.19 2.32 2.09 1.95 1.95 1.95 1.80 1.85 1.59 1.59 1.59 1.59 1.59 1.59 1.59 1.5	(°) 97.4 103.4 111.9 117.4 117.4 122.7 125.3 132.9 120.1 111.9 111.9 120.1 120.1 103.4 106.3 91.2 91.2 106.3 91.2 87.9 81.1 81.1	m 0.75 0.83 0.85 0.85 0.88 0.89 0.92 0.87 0.83 0.83 0.87 0.78 0.87 0.76 0.71 0.71 0.69 0.65	0.089 0.104 0.128 0.145 0.145 0.162 0.171 0.198 0.154 0.128 0.154 0.154 0.104 0.112 0.074 0.074 0.074 0.0753 0.053	m ³ /s 0.10 0.12 0.16 0.19 0.22 0.24 0.29 0.16 0.16 0.16 0.10 0.10 0.10 0.10 0.10	Q _{crit} 1/s 95 118 158 158 187 219 235 289 203 158 158 158 174 131 74 131 74 65	V m/s 1.075 1.140 1.232 1.290 1.347 1.375 1.456 1.319 1.232 1.232 1.319 1.171 1.007 1.007 1.007 0.972 0.898 0.898
8:00 09:00 10:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 20:00 21:00 23:00 00:00 01:00 02:00 03:00 04:00 05:00	No 1 2 3 4 4 5 6 6 7 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	h/D (%) 17.0% 19.0% 22.0% 24.0% 25.0% 25.0% 25.0% 25.0% 21.0% 15.0% 15.0% 14.0% 12.0%	h m 0.17 0.19 0.22 0.24 0.26 0.27 0.30 0.25 0.22 0.25 0.15 0.15 0.15 0.15 0.15 0.14 0.12 0.12	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	P (rad) 1.70 1.80 1.95 2.05 2.14 2.19 2.32 2.09 1.95 1.95 2.09 1.80 1.85 1.59 1.59 1.53 1.41	(°) 97.4 103.4 111.9 117.4 117.4 122.7 125.3 132.9 120.1 111.9 111.9 120.1 120.1 103.4 106.3 91.2 91.2 106.3 91.2 87.9 81.1	m 0.75 0.83 0.85 0.85 0.88 0.89 0.92 0.87 0.83 0.83 0.87 0.71 0.71 0.71 0.69 0.65	0.089 0.104 0.128 0.145 0.145 0.162 0.171 0.198 0.154 0.128 0.154 0.154 0.104 0.112 0.074 0.074 0.074 0.0753 0.053	m ³ /s 0.10 0.12 0.16 0.19 0.22 0.24 0.29 0.16 0.16 0.16 0.10 0.10 0.10 0.10 0.10	Q _{crit} 1/s 95 118 158 158 187 219 235 289 203 158 158 158 174 131 74 131 74 65	V m/s 1.075 1.140 1.232 1.232 1.319 1.140 1.077 1.007 1.007 0.972 0.898

	Control measurement with curent r	neter (propeler)		Qmeasured /Qcalculated
15:00	30.0% 0.30 0.50 2.32 0	92 0.198 0.33	327 1.652	113%

27.11.2	2007	Outlet	Zelezar	a (Mak	atli)	MP10			Dplpe	2,000	mm
	No	h/D	h	r	φ	φ	В	Α	Q _{erit}	Q _{orit}	٧
		(%)	m	m	(rad)	(°)	m	m²	m³/s	l/s	m/s
8:00	1	22.5%	0.45	1.00	1.98	113.3	1.67	0.529	0.93	933	1.763
09:00	2	21.0%	0.42	1.00	1.90	109.2	1.63	0.480	0.81	815	1.699
10:00	3	22.5%	0.45	1.00	1.98	113.3	1.67	0.529	0.93	933	1.763
11:00	4	23.5%	0.47	1.00	2.02	116.0	1.70	0.563	1.02	1,015	1.804
12:00	5	24.5%	0.49	1.00	2.07	118.7	1.72	0.597	1.10	1,101	1.845
13:00	6	25.0%	0.50	1.00	2.09	120.1	1.73	0.614	1.15	1,146	1.865
14:00	7	24.0%	0.48	1.00	2.05	117.4	1.71	0.580	1.06	1,058	1.825
15:00	8	22.5%	0.45	1.00	1.98	113.3	1.67	0.529	0.93	933	1.763
16:00	9	21.0%	0.42	1.00	1.90	109.2	1.63	0.480	0.81	815	1.699
17:00	10	17.5%	0.35	1.00	1.73	99.0	1.52	0.369	0.57	570	1.544
18:00 19:00	11 12	20.0% 20.0%	0.40	1.00	1.85 1.85	106.3 106.3	1.60 1.60	0.447	0.74	741 741	1.656 1.656
20:00	13	21.0%	0.42	1.00	1.90	109.2	1.63	0.447	0.74	815	1.699
21:00	14	20.0%	0.40	1.00	1.85	106.3	1.60	0.447	0.74	741	1.656
22:00	15	20.0%	0.40	1.00	1.85	106.3	1.60	0.447	0.74	741	1.656
23:00	16	21.0%	0.42	1.00	1.90	109.2	1.63	0.480	0.81	815	1.699
00:00	17	20.0%	0.40	1.00	1.85	106.3	1.60	0.447	0.74	741	1.656
01:00	18	21.5%	0.43	1.00	1.93	110.6	1.64	0.496	0.85	853	1.721
02:00	19	22.5%	0.45	1.00	1.98	113.3	1.67	0.529	0.93	933	1.763
03:00	20	22.5%	0.45	1.00	1.98	113.3	1.67	0.529	0.93	933	1.763
04:00	21	20.0%	0.40	1.00	1.85	106.3	1.60	0.447	0.74	741	1.656
05:00	22	20.0%	0.40	1.00	1.85	106.3	1.60	0.447	0.74	741	1.656
06:00	23	20.0%	0.40	1.00	1.85	106.3	1.60	0.447	0.74	741	1.656
07:00	24	20.0%	0.40	1.00	1.85	106.3	1.60	0.447	0.74	741	1.656
07.00	24	20.070									
07.00	24	20.070									
05.12.2		Outlet	Zeleza						Dplpa	2,000	mm
	2007	Outlet	Zeleza		stli)						
		Outlet h/D	Zelezar h	a (Mak	stii) Φ	φ	В	A	Q _{crit}	Q _{crit}	V
05.12.2	2007 No	Outlet h/D (%)	Zelezar h m	ra (Mak	stil) Φ (rad)	(°)	B	A m²	Q _{crit}	Q _{crit}	V m/s
05.12.2 8:00	No 1	Outlet h/D (%) 22.5%	Zelezar h m	ra (Mak	stii) φ (rad) 1.98	(°) 113.3	B m 1.67	A m² 0.529	Q _{erit} m³/s 0.93	Q _{crit} I/s 933	w m/s 1.763
8:00 09:00	No 1 2	h/D (%) 22.5% 23.5%	Zeleza r h m 0.45 0.47	ra (Mak	φ (rad) 1.98 2.02	(°) 113.3 116.0	B m 1.67 1.70	A m² 0.529 0.563	Q _{crit} m³/s 0.93 1.02	Q _{orit} /a 933 1,015	w m/s 1.763 1.804
8:00 09:00 10:00	No 1 2 3	h/D (%) 22.5% 23.5% 25.0%	h m 0.45 0.47	ra (Mak r m 1.00 1.00	φ (rad) 1.98 2.02 2.09	(°) 113.3 116.0 120.1	B m 1.67 1.70	A m² 0.529 0.563 0.614	Q _{crit} m³/s 0.93 1.02 1.15	Q _{crit} /s 933 1,015 1,146	w/s 1.763 1.804 1.865
8:00 09:00 10:00 11:00	No 1 2 3 4	0utlet h/D (%) 22.5% 23.5% 25.0% 26.0%	h m 0.45 0.47 0.50 0.52	ra (Mak r m 1.00 1.00 1.00	φ (rad) 1.98 2.02 2.09 2.14	(°) 113.3 116.0 120.1 122.7	B m 1.67 1.70 1.73 1.75	M m ² 0.529 0.563 0.614 0.649	Q _{crit} m³/s 0.93 1.02 1.15 1.24	Q _{crit} /s 933 1,015 1,146 1,236	w m/s 1.763 1.804 1.865 1.905
8:00 09:00 10:00 11:00 12:00	No 1 2 3 4 5	0utlet h/D (%) 22.5% 23.5% 25.0% 26.0%	h m 0.45 0.47 0.50 0.52 0.52	r m 1.00 1.00 1.00	φ (rad) 1.98 2.02 2.09 2.14 2.14	(°) 113.3 116.0 120.1 122.7 122.7	B m 1.67 1.70 1.73 1.75 1.75	M ² 0.529 0.563 0.614 0.649	Q _{crit} m³/s 0.93 1.02 1.15 1.24 1.24	Q _{crit} 1/8 933 1,015 1,146 1,236 1,236	w/s 1.763 1.804 1.865 1.905 1.905
8:00 09:00 10:00 11:00 12:00 13:00	No 1 2 3 4 5 6	0utlet h/D (%) 22.5% 23.5% 25.0% 26.0% 26.0%	h m 0.45 0.47 0.50 0.52 0.52	r m 1.00 1.00 1.00 1.00	φ (rad) 1.98 2.02 2.09 2.14 2.14 2.09	(°) 113.3 118.0 120.1 122.7 122.7 120.1	B m 1.67 1.70 1.73 1.75 1.75	M ² 0.529 0.563 0.614 0.649 0.649 0.614	Q _{erit} m³/s 0.93 1.02 1.15 1.24 1.24	Q _{crit} /s 933 1,015 1,146 1,236 1,236 1,146	w/s 1.763 1.804 1.865 1.905 1.905
8:00 09:00 10:00 11:00 12:00 13:00 14:00	No 1 2 3 4 5 6 7	h/D (%) 22.5% 23.5% 25.0% 26.0% 26.0% 26.5%	H m 0.45 0.47 0.50 0.52 0.52 0.50 0.53	r m 1.00 1.00 1.00 1.00 1.00	φ (rad) 1.98 2.02 2.09 2.14 2.14 2.09 2.16	(°) 113.3 116.0 120.1 122.7 122.7 120.1 124.0	B m 1.67 1.70 1.73 1.75 1.73 1.77	0.529 0.563 0.614 0.649 0.649 0.614 0.667	Q _{erit} m³/s 0.93 1.02 1.15 1.24 1.15 1.28	Q _{crit} /s 933 1,015 1,146 1,236 1,146 1,283	w/s 1.763 1.804 1.865 1.905 1.905 1.865 1.925
8:00 09:00 10:00 11:00 12:00 14:00 15:00	No 1 2 3 4 5 6 7 6	h/D (%) 22.5% 23.5% 25.0% 26.0% 26.0% 25.0% 25.0%	N m 0.45 0.47 0.50 0.52 0.52 0.53 0.50	r m 1.00 1.00 1.00 1.00 1.00 1.00	φ (rad) 1.98 2.02 2.09 2.14 2.14 2.09	(°) 113.3 118.0 120.1 122.7 122.7 120.1 124.0 120.1	1.67 1.70 1.73 1.75 1.75 1.73 1.77	0.529 0.563 0.614 0.649 0.649 0.614 0.667	Q _{erit} m³/s 0.93 1.02 1.15 1.24 1.24	Q _{crit} /8 933 1,015 1,146 1,236 1,146 1,283 1,146	w/s 1.763 1.804 1.865 1.905 1.905 1.865 1.925
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00	No 1 2 3 4 5 6 7	h/D (%) 22.5% 23.5% 25.0% 26.0% 26.0% 25.0% 25.0% 25.0%	N m 0.45 0.47 0.50 0.52 0.52 0.53 0.50 0.50	ra (Mak r m 1.00 1.00 1.00 1.00 1.00 1.00 1.00	φ (rad) 1.98 2.02 2.09 2.14 2.14 2.09 2.16 2.09	(°) 113.3 118.0 120.1 122.7 122.7 120.1 124.0 120.1	1.67 1.70 1.73 1.75 1.75 1.73 1.77 1.73	0.529 0.563 0.614 0.649 0.649 0.614 0.667 0.614	Q _{erit} m³/s 0.93 1.02 1.15 1.24 1.15 1.28 1.15	Q _{crit} /8 933 1,015 1,146 1,236 1,146 1,283 1,146 1,146	m/s 1.763 1.804 1.865 1.905 1.905 1.865 1.925 1.865
8:00 09:00 10:00 11:00 12:00 13:00 15:00 16:00 17:00	No 1 2 3 4 5 6 7 8	h/D (%) 22.5% 23.5% 25.0% 26.0% 26.0% 25.0% 25.0%	N m 0.45 0.47 0.50 0.52 0.52 0.53 0.50	r m 1.00 1.00 1.00 1.00 1.00 1.00	φ (rad) 1.98 2.02 2.09 2.14 2.14 2.09 2.16 2.09	(°) 113.3 118.0 120.1 122.7 122.7 120.1 124.0 120.1	1.67 1.70 1.73 1.75 1.75 1.73 1.77	0.529 0.563 0.614 0.649 0.649 0.614 0.667	Q _{ent} m ³ /s 0.93 1.02 1.15 1.24 1.15 1.28 1.15	Q _{crit} /8 933 1,015 1,146 1,236 1,146 1,263 1,146 1,146 1,058	w/s 1.763 1.804 1.865 1.905 1.905 1.865 1.925
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00	No 1 2 3 4 5 6 7 8 9	h/D (%) 22.5% 23.5% 25.0% 26.0% 26.0% 25.0% 25.0% 25.0% 24.0%	No. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	ra (Mak r m 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	φ (rad) 1.98 2.02 2.09 2.14 2.14 2.09 2.16 2.09 2.09	(°) 113.3 116.0 120.1 122.7 122.7 120.1 124.0 120.1 120.1	1.67 1.70 1.73 1.75 1.75 1.73 1.77 1.73 1.73	0.529 0.563 0.614 0.649 0.649 0.614 0.667 0.614	Q _{crit} m³/s 0.93 1.02 1.15 1.24 1.15 1.28 1.15 1.15	Q _{crit} /8 933 1,015 1,146 1,236 1,146 1,283 1,146 1,146	m/s 1.763 1.804 1.865 1.905 1.905 1.865 1.865 1.865 1.865
8:00 09:00 10:00 11:00 12:00 14:00 15:00 16:00 17:00 18:00	No 1 2 3 4 5 6 7 8 9 10 11	h/D (%) 22.5% 23.5% 25.0% 26.0% 26.0% 26.5% 25.0% 25.0% 24.0% 24.0%	No. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	ra (Mak r m 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	φ (rad) 1.98 2.02 2.09 2.14 2.14 2.09 2.16 2.09 2.05 2.05	(°) 113.3 116.0 120.1 122.7 122.7 120.1 124.0 120.1 120.1 117.4	1.67 1.70 1.73 1.75 1.75 1.73 1.77 1.73 1.73 1.71	0.529 0.563 0.614 0.649 0.649 0.614 0.667 0.614 0.580 0.580 0.580	Q _{crit} m³/s 0.93 1.02 1.15 1.24 1.15 1.28 1.15 1.15	Q _{crit} /s /s 933 1,015 1,146 1,236 1,146 1,263 1,146 1,146 1,058 1,058	w/s 1.763 1.865 1.905 1.905 1.905 1.865 1.865 1.865 1.825
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 18:00 18:00	1 2 3 4 5 6 7 6 9 10 11 12	0utlet h/D (%) 22.5% 23.5% 25.0% 26.0% 26.5% 25.0% 24.0% 24.0% 24.0%	N m 0.45 0.50 0.52 0.52 0.50 0.53 0.50 0.48 0.48 0.48	r m 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	9 (rad) 1.98 2.02 2.09 2.14 2.14 2.09 2.16 2.09 2.05 2.05	(°) 113.3 116.0 120.1 122.7 122.7 120.1 124.0 120.1 117.4 117.4	1.67 1.70 1.73 1.75 1.75 1.73 1.73 1.73 1.73 1.71 1.71	0.529 0.563 0.614 0.649 0.649 0.664 0.664 0.664 0.580 0.580	Q _{crit} m³/s 0.93 1.02 1.15 1.24 1.15 1.28 1.15 1.15 1.06 1.06	Q _{crit} /8 933 1,015 1,146 1,236 1,246 1,263 1,146 1,263 1,146 1,058 1,058	w/s 1.763 1.864 1.865 1.905 1.905 1.865 1.865 1.865 1.825 1.825
8:00 09:00 10:00 11:00 12:00 13:00 15:00 16:00 17:00 18:00 19:00 20:00	No 1 2 3 4 5 6 7 7 8 9 10 11 12	0utlet h/D (%) 22.5% 23.5% 25.0% 26.0% 26.5% 25.0% 24.0% 24.0% 24.0% 24.0% 23.0%	N m 0.45 0.52 0.52 0.50 0.53 0.50 0.48 0.48 0.48 0.46	r m 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	9 (rad) 1.98 2.02 2.09 2.14 2.14 2.09 2.16 2.09 2.05 2.05 2.05	(°) 113.3 118.0 120.1 122.7 122.7 120.1 124.0 120.1 117.4 117.4 114.7 114.7 120.1	B m 1.67 1.70 1.73 1.75 1.73 1.73 1.73 1.71 1.71 1.68	0.529 0.563 0.614 0.649 0.649 0.614 0.667 0.614 0.580 0.580 0.580	Q _{crit} m³/s 0.93 1.02 1.15 1.24 1.15 1.28 1.15 1.06 1.06 0.97	Q _{crit} /8 933 1,015 1,146 1,236 1,246 1,146 1,263 1,146 1,058 1,058 1,058 974	m/s 1.763 1.804 1.805 1.905 1.905 1.865 1.865 1.865 1.825 1.825 1.825
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00	No 1 2 3 4 5 6 7 6 9 10 11 12 13 14	h/D (%) 22.5% 23.5% 25.0% 26.0% 25.0% 25.0% 25.0% 24.0% 24.0% 24.0% 23.0% 23.0%	No. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	r m 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	φ (rad) 1.98 2.02 2.09 2.14 2.14 2.09 2.16 2.09 2.05 2.05 2.05 2.00	(°) 113.3 118.0 120.1 122.7 122.7 120.1 124.0 120.1 120.1 117.4 117.4 114.7 114.7 120.1 120.1	B m 1.67 1.70 1.73 1.75 1.73 1.77 1.73 1.71 1.71 1.68 1.68 1.73 1.73 1.73 1.73	0.529 0.563 0.614 0.649 0.649 0.614 0.667 0.614 0.580 0.580 0.580 0.546	Q _{erit} m³/s 0.93 1.02 1.15 1.24 1.24 1.15 1.15 1.06 1.06 0.97 0.97 1.15	Q _{crit} /s 933 1,015 1,146 1,236 1,146 1,263 1,146 1,146 1,058 1,058 1,058 974 974	m/s 1.763 1.804 1.865 1.905 1.905 1.965 1.865 1.865 1.825 1.825 1.825 1.784
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 17:00 18:00 19:00 20:00 21:00	No 1 2 3 4 5 6 7 6 9 9 10 11 12 13 14 15 15	h/D (%) 22.5% 23.5% 25.0% 26.0% 26.0% 25.0% 25.0% 24.0% 24.0% 23.0% 23.0% 23.0% 23.0% 23.0% 23.0%	N m 0.45 0.50 0.50 0.50 0.48 0.48 0.46 0.50 0.50 0.50 0.50 0.47	r m 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	φ (rad) 1.98 2.02 2.09 2.14 2.14 2.09 2.16 2.09 2.05 2.05 2.05 2.00 2.00	(°) 113.3 118.0 120.1 122.7 122.7 120.1 124.0 120.1 117.4 117.4 117.4 114.7 120.1 120.1 120.1	B m 1.67 1.70 1.73 1.75 1.73 1.73 1.71 1.71 1.68 1.68 1.73 1.73 1.73 1.73 1.73 1.73 1.73 1.73	0.529 0.563 0.614 0.649 0.614 0.667 0.614 0.580 0.580 0.580 0.546 0.546 0.614	Q _{crit} m³/s 0.93 1.02 1.15 1.24 1.14 1.15 1.06 1.06 0.97 0.97 1.15	Q _{crit} /s 933 1,015 1,146 1,236 1,146 1,263 1,146 1,058 1,058 1,058 974 974 1,146	m/s 1.763 1.804 1.865 1.905 1.905 1.865 1.865 1.865 1.865 1.825 1.825 1.825 1.784 1.784 1.784 1.885 1.865
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 20:00 21:00 22:00 23:00 00:00	No 1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 18 17 18	h/D (%) 22.5% 23.5% 25.0% 26.0% 26.0% 25.0% 25.0% 24.0% 24.0% 23.0% 23.0% 23.0% 25.0% 23.0% 23.0% 23.0% 25.0%	N m 0.45 0.50 0.50 0.50 0.48 0.48 0.48 0.46 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	r m 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	φ (rad) 1.98 2.02 2.09 2.14 2.14 2.09 2.16 2.09 2.05 2.05 2.00 2.00 2.09 2.09 2.09 2.09	(°) 113.3 118.0 120.1 122.7 122.7 120.1 124.0 120.1 117.4 117.4 117.4 114.7 114.7 120.1 120.1 120.1 116.0	B m 1.67 1.70 1.73 1.75 1.73 1.73 1.71 1.71 1.68 1.68 1.73 1.73 1.73 1.73 1.73 1.73 1.75 1.66 1.68 1.73 1.70 1.67	0.529 0.563 0.614 0.649 0.614 0.667 0.614 0.580 0.580 0.546 0.546 0.614 0.614	Clerk m ³ /s 0.93 1.02 1.15 1.24 1.15 1.05 1.06 1.06 1.06 1.06 1.07 1.15 1.02 0.93	Q _{crit} /8 933 1,015 1,146 1,236 1,146 1,283 1,146 1,058	w/s 1.763 1.804 1.865 1.905 1.905 1.865 1.865 1.865 1.825 1.825 1.825 1.784 1.784 1.784 1.783 1.865
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 20:00 21:00 22:00 23:00 00:00 01:00	No 1 2 3 4 4 5 6 7 7 8 9 10 11 11 12 13 14 15 18 17 18 19	h/D (%) 22.5% 23.5% 25.0% 26.0% 26.0% 25.0% 25.0% 24.0% 24.0% 23.0% 23.0% 23.0% 23.0% 23.0% 23.0% 24.0% 23.0% 24.0%	New York Process of the Control of t	r m 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	φ (rad) 1.98 2.02 2.09 2.14 2.14 2.09 2.16 2.09 2.05 2.05 2.00 2.00 2.00 2.09 2.09 2.05	(°) 113.3 118.0 120.1 122.7 122.7 120.1 124.0 120.1 117.4 117.4 114.7 114.7 120.1 120.1 120.1 116.0 113.3	B m 1.67 1.70 1.73 1.75 1.73 1.73 1.71 1.71 1.68 1.73 1.73 1.73 1.73 1.73 1.73 1.73 1.75 1.68 1.73 1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75	0.529 0.563 0.614 0.649 0.614 0.667 0.614 0.580 0.580 0.580 0.546 0.546 0.546 0.546 0.5614 0.614	Clerk m ³ /s 0.93 1.02 1.15 1.24 1.15 1.06 1.06 0.97 1.15 1.06 1.06 0.97 1.15 1.02 0.93 1.06	Q _{crit} /8 933 1,015 1,148 1,236 1,246 1,263 1,146 1,263 1,146 1,058 1,058 974 974 1,146 1,146 1,146	w/s 1.763 1.804 1.865 1.905 1.905 1.865 1.865 1.865 1.825 1.825 1.784 1.784 1.783 1.865 1.865
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 20:00 21:00 22:00 23:00 00:00 01:00 02:00	No 1 2 3 4 4 5 6 7 7 8 9 100 111 12 13 13 14 15 18 17 18 19 20	h/D (%) 22.5% 23.5% 25.0% 26.0% 26.0% 25.0% 25.0% 24.0% 24.0% 23.0% 23.0% 23.0% 23.0% 23.0% 23.0% 23.0% 24.0% 23.0% 23.0% 24.0%	N m 0.45 0.47 0.50 0.52 0.52 0.50 0.48 0.48 0.46 0.50 0.50 0.47 0.45 0.45 0.45 0.45	r m 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	φ (rad) 1.98 2.02 2.09 2.14 2.14 2.09 2.16 2.09 2.05 2.05 2.05 2.00 2.00 2.09 2.09 2.198 2.09	(°) 113.3 118.0 120.1 122.7 122.7 120.1 124.0 120.1 117.4 117.4 114.7 114.7 120.1 120.1 116.0 113.3 117.4 113.3	1.67 1.70 1.73 1.75 1.75 1.73 1.77 1.73 1.71 1.71 1.71 1.68 1.73 1.73 1.73 1.73 1.73	0.529 0.563 0.614 0.649 0.614 0.667 0.614 0.580 0.580 0.580 0.546 0.546 0.546 0.5614 0.614 0.563 0.529	Clerk m³/s 0.93 1.02 1.15 1.24 1.15 1.06 1.06 1.06 1.05 1.15 1.15 1.06 1.06 1.06 1.06 1.06 1.06 1.06 1.06	Q _{crit} /s 933 1,015 1,146 1,236 1,146 1,263 1,146 1,058 1,058 1,058 974 1,146 1,015 933 1,058 933	w/s 1.763 1.804 1.865 1.905 1.905 1.865 1.865 1.865 1.825 1.825 1.784 1.784 1.784 1.784 1.783 1.805 1.805 1.784
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 20:00 21:00 22:00 23:00 00:00 01:00 02:00 04:00	No 1 2 3 3 4 4 5 6 7 7 8 9 100 111 112 113 114 15 16 17 18 19 20 21	h/D (%) 22.5% 23.5% 25.0% 26.0% 26.0% 25.0% 24.0% 24.0% 23.0% 23.0% 23.0% 25.0% 24.0% 23.0% 24.0% 23.0% 25.0% 25.0%	N m 0.45 0.47 0.50 0.52 0.52 0.50 0.48 0.48 0.48 0.46 0.50 0.50 0.47 0.45 0.48 0.48 0.48 0.50 0.50 0.50 0.47 0.45 0.48 0.48 0.50 0.50 0.50 0.47 0.45 0.48 0.48 0.48 0.50 0.50 0.50 0.47 0.45 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	r m 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	### (rad) 1.98 2.02 2.09 2.14 2.14 2.09 2.05 2.05 2.05 2.05 2.00 2.00 2.09 2.02 1.98 2.05 1.98	(°) 113.3 118.0 120.1 122.7 122.7 120.1 124.0 120.1 117.4 117.4 114.7 114.7 120.1 116.0 113.3 117.4 113.3	1.67 1.70 1.73 1.75 1.75 1.73 1.77 1.73 1.71 1.71 1.71 1.68 1.68 1.73 1.70 1.67 1.67	0.529 0.563 0.614 0.649 0.614 0.667 0.614 0.580 0.580 0.580 0.580 0.546 0.546 0.614 0.614 0.563 0.529 0.580	Clerk m³/s 0.93 1.02 1.15 1.24 1.15 1.06 1.06 1.06 1.06 1.15 1.15 1.15 1.06 1.06 0.97 0.97 1.15 1.02 0.93 1.06 0.93 0.67	Q _{crit} /st /st 933 1,015 1,146 1,236 1,146 1,283 1,146 1,058 1,058 974 1,146 1,146 1,058 974 1,146 1,146 1,058 974 1,146 1,058 974 1,058 974 1,058 975 1,058 976 1,058 933 1,058	w/s 1.763 1.804 1.905 1.905 1.905 1.865 1.865 1.865 1.825 1.825 1.784 1.784 1.885 1.885 1.804 1.763 1.804 1.763 1.625
8:00 09:00 10:00 11:00 12:00 13:00 15:00 16:00 17:00 18:00 20:00 20:00 21:00 22:00 23:00 00:00 01:00 02:00 04:00 05:00	No 1 2 3 3 4 4 5 6 6 7 7 8 9 100 111 12 13 13 14 15 16 16 17 7 18 19 20 21 22 22	h/D (%) 22.5% 23.5% 25.0% 26.0% 26.0% 25.0% 25.0% 24.0% 24.0% 23.0% 23.0% 25.0% 25.0% 24.0% 23.0% 25.0% 25.0% 25.0% 25.0% 25.0% 25.0% 25.0% 25.0% 26.5% 26.5% 26.5% 26.5% 26.5% 27.0	N m 0.45 0.47 0.50 0.52 0.52 0.50 0.48 0.48 0.48 0.48 0.46 0.50 0.50 0.47 0.45 0.48 0.45 0.47 0.45 0.48 0.48 0.48 0.40 0.50 0.50 0.47 0.45 0.48 0.48 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45	r m 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	### (rad) 1.98 2.02 2.09 2.14 2.14 2.09 2.05 2.05 2.05 2.05 2.00 2.09 2.09 2.05 2.05 2.00 2.09 2.09 1.98 1.80 1.78	(°) 113.3 118.0 120.1 122.7 122.7 120.1 124.0 120.1 117.4 117.4 114.7 114.7 120.1 116.0 113.3 117.4 113.3 103.4 102.0	1.67 1.70 1.73 1.75 1.75 1.73 1.77 1.73 1.71 1.71 1.71 1.68 1.68 1.73 1.70 1.67 1.57	0.529 0.563 0.614 0.649 0.614 0.667 0.614 0.580 0.580 0.580 0.580 0.546 0.546 0.563 0.529 0.580 0.529	Clerk m³/s 0.93 1.02 1.15 1.24 1.15 1.06 1.06 1.06 1.06 1.15 1.15 1.15 1.06 1.06 0.97 1.15 1.00 1.06 1.06 1.06 1.06 1.06 1.06 1.06	Q _{crit} /8 933 1,015 1,146 1,236 1,146 1,283 1,146 1,058 1,058 974 1,146 1,146 1,058 974 1,146 1,146 1,058 974 1,146 1,146 1,058 974 1,146 1,056 933 1,058	w/s 1.763 1.804 1.905 1.905 1.905 1.865 1.865 1.865 1.825 1.825 1.784 1.784 1.865 1.865 1.865 1.865 1.784 1.784 1.784 1.783 1.784 1.783 1.865 1.865
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 20:00 21:00 22:00 23:00 00:00 01:00 02:00 04:00	No 1 2 3 3 4 4 5 6 6 7 7 8 9 100 111 12 13 13 14 15 16 16 17 7 18 19 20 21 22 22	0utlet h/D (%) 22.5% 23.5% 25.0% 26.0% 26.5% 25.0% 24.0% 24.0% 23.0% 23.5% 24.0% 22.5% 24.0% 22.5% 24.0% 22.5% 20.0%	N m 0.45 0.47 0.50 0.52 0.52 0.50 0.53 0.50 0.48 0.48 0.46 0.50 0.50 0.47 0.45 0.48 0.45 0.46 0.50 0.50 0.47 0.45 0.48 0.45 0.46 0.50 0.50 0.47 0.45 0.48 0.45 0.46 0.50 0.47 0.45 0.48 0.45 0.45 0.48 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45	r m 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	### (rad) 1.98 2.02 2.09 2.14 2.14 2.09 2.05 2.05 2.05 2.05 2.00 2.00 2.09 2.02 1.98 2.05 1.98	(°) 113.3 118.0 120.1 122.7 122.7 120.1 124.0 120.1 117.4 117.4 114.7 114.7 120.1 116.0 113.3 117.4 113.3	1.67 1.70 1.73 1.75 1.75 1.73 1.77 1.73 1.71 1.71 1.71 1.68 1.68 1.73 1.70 1.67 1.67	0.529 0.563 0.614 0.649 0.614 0.667 0.614 0.580 0.580 0.580 0.580 0.546 0.546 0.614 0.614 0.563 0.529 0.580	Clerk m³/s 0.93 1.02 1.15 1.24 1.15 1.06 1.06 1.06 1.06 1.15 1.15 1.15 1.06 1.06 0.97 0.97 1.15 1.02 0.93 1.06 0.93 0.67	Q _{crit} /8 933 1,015 1,146 1,236 1,146 1,283 1,146 1,058 1	w/s 1.763 1.804 1.905 1.905 1.905 1.865 1.865 1.865 1.825 1.825 1.784 1.784 1.885 1.885 1.804 1.763 1.804 1.763 1.625

27.11.2	:007	Outlet	N.Lisio	:8	MP12						
			Dpipe	5,530	mm						
	No	h/D	h	F	φ	φ	В	Α	Q _{crit}	Q _{crit}	٧
		(%)	m	m	(rad)	(°)	m	m²	m³/s	Vs	m/s
8:00	1	3.1%	0.17	2.77	0.70	40.4	1.91	0.218	0.23	230	1.058
09:00	2	3.6%	0.20	2.77	0.77	43.9	2.06	0.277	0.32	318	1.148
10:00	3	4.0%	0.22	2.77	0.80	46.0	2.16	0.320	0.39	385	1.204
11:00	4	4.3%	0.24	2.77	0.84	48.1	2.25	0.364	0.46	458	1.258
12:00	5	4.3%	0.24	2.77	0.84	48.1	2.25	0.364	0.46	458	1.258
13:00	6	4.7%	0.26	2.77	0.87	50.1	2.34	0.410	0.54	537	1.310
14:00	7	4.3%	0.24	2.77	0.84	48.1	2.25	0.364	0.46	458	1.258
15:00	8	4.0%	0.22	2.77	0.80	46.0	2.16	0.320	0.39	385	1.204
16:00	9	3.6%	0.20	2.77	0.77	43.9	2.06	0.277	0.32	318	1.148
17:00	10	4.0%	0.22	2.77	0.80	46.0	2.16	0.320	0.39	385	1.204
18:00	11	4.0%	0.22	2.77	0.80	46.0	2.16	0.320	0.39	385	1.204
19:00	12	3.1%	0.17	2.77	0.70	40.4	1.91	0.218	0.23	230	1.058
20:00	13	4.3%	0.24	2.77	0.84	48.1	2.25	0.364	0.46	458	1.258
21:00	14	4.0%	0.22	2.77	0.80	46.0	2.16	0.320	0.39	385	1.204
22:00	15	4.9%	0.27	2.77	0.89	51.1	2.38	0.433	0.58	579	1.336
23:00	16	4.0%	0.22	2.77	0.80	46.0	2.16	0.320	0.39	385	1.204
00:00	17	4.0%	0.22	2.77	0.80	46.0	2.16	0.320	0.39	385	1.204
01:00	18	4.3%	0.24	2.77	0.84	48.1	2.25	0.364	0.46	458	1.258
02:00	19	4.0%	0.22	2.77	0.80	46.0	2.16	0.320	0.39	385	1.204
03:00	20	4.0%	0.22	2.77	0.80	46.0	2.16	0.320	0.39	385	1.204
04:00	21	3.1%	0.17	2.77	0.70	40.4	1.91	0.218	0.23	230	1.058
05:00	22	2.2%	0.12	2.77	0.59	33.9	1.61	0.129	0.11	115	0.888
06:00	23	2.5%	0.14	2.77	0.64	36.6	1.74	0.163	0.16	156	0.959
07:00	24	3.1%	0.17	2.77	0.70	40.4	1.91	0.218	0.23	230	1.058



05.12.2	:007	Outlet	N.Lisio	:8	MP12						
			Dplpe	5,530	mm						
	No	h/D	h	Г	φ	φ	В	Α	Q _{crit}	Q _{crit}	V
		(%)	m	m	(rad)	(°)	m	m²	m³/s	l/s	m/s
8:00	1	3.1%	0.17	2.77	0.70	40.4	1.91	0.218	0.23	230	1.058
09:00	2	3.6%	0.20	2.77	0.77	43.9	2.06	0.277	0.32	318	1.148
10:00	3	4.0%	0.22	2.77	0.80	46.0	2.16	0.320	0.39	385	1.204
11:00	4	4.3%	0.24	2.77	0.84	48.1	2.25	0.364	0.46	458	1.258
12:00	5	4.7%	0.26	2.77	0.87	50.1	2.34	0.410	0.54	537	1.310
13:00	6	5.1%	0.28	2.77	0.91	52.0	2.42	0.457	0.62	622	1.360
14:00	7	4.7%	0.26	2.77	0.87	50.1	2.34	0.410	0.54	537	1.310
15:00	8	4.3%	0.24	2.77	0.84	48.1	2.25	0.364	0.46	458	1.258
16:00	9	4.3%	0.24	2.77	0.84	48.1	2.25	0.364	0.46	458	1.258
17:00	10	4.0%	0.22	2.77	0.80	46.0	2.16	0.320	0.39	385	1.204
18:00	11	3.6%	0.20	2.77	0.77	43.9	2.06	0.277	0.32	318	1.148
19:00	12	4.0%	0.22	2.77	0.80	46.0	2.1 6	0.320	0.39	385	1.204
20:00	13	4.0%	0.22	2.77	0.80	46.0	2.1 6	0.320	0.39	385	1.204
21:00	14	3.6%	0.20	2.77	0.77	43.9	2.06	0.277	0.32	318	1.148
22:00	15	4.0%	0.22	2.77	0.80	46.0	2.16	0.320	0.39	385	1.204
23:00	16	4.0%	0.22	2.77	0.80	46.0	2.16	0.320	0.39	385	1.204
00:00	17	3.6%	0.20	2.77	0.77	43.9	2.06	0.277	0.32	318	1.148
01:00	18	3.3%	0.18	2.77	0.73	41.6	1.96	0.237	0.26	258	1.089
02:00	19	4.0%	0.22	2.77	0.80	46.0	2.16	0.320	0.39	385	1.204
03:00	20	3.4%	0.19	2.77	0.75	42.7	2.01	0.257	0.29	287	1.119
04:00	21	3.6%	0.20	2.77	0.77	43.9	2.06	0.277	0.32	318	1.148
05:00	22	3.3%	0.18	2.77	0.73	41.6	1.96	0.237	0.26	258	1.089
06:00	23	3.1%	0.17	2.77	0.70	40.4	1.91	0.218	0.23	230	1.058
07:00	24	2.5%	0.14	2.77	0.64	36.6	1.74	0.163	0.16	156	0.959

	Co	ntrol ma	asuren	nent wi	th cure	int met	er (prop	oeler)			Qmeasured /Qcalculated
13:00	5.1%	0.28	2.77	0.91		2.50	0.500	0.64	635	1.270	102%

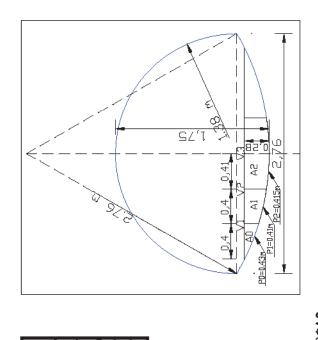
Flow rate as a result of pipe water level

				Flow rate a	is a result		water let	vei			
27.11.2	:007	Pump Sta	tion Dra	acevo		MP18		Dplpe		400	mm
	No	H/D	h	r	Ф	φ	В	Α	Q _{crit}	Q _{crit}	V
		(%)	m	m	(rad)	(°)	m	m²	m³/s	l/s	m/s
8:00	1	25.0%	0.100	0.20	2.09	120.1	0.35	0.025	0.02	20.5	0.834
09:00	2	30.0%	0.120	0.20	2.32	132.9	0.37	0.032	0.03	29.2	0.921
10:00	3	27.5%	0.110	0.20	2.21	126.6	0.36	0.028	0.02	24.7	0.878
11:00	4	30.0%	0.120	0.20	2.32	132.9	0.37	0.032	0.03	29.2	0.921
12:00	5	25.0%	0.100	0.20	2.09	120.1	0.35	0.025	0.02	20.5	0.834
13:00	6	25.0%	0.100	0.20	2.09	120.1	0.35	0.025	0.02	20.5	0.834
14:00	7	27.5%	0.110	0.20	2.21	126.6	0.36	0.028	0.02	24.7	0.878
15:00	8	27.5%	0.110	0.20	2.21	126.6	0.36	0.028	0.02	24.7	0.878
16:00	9	27.5%	0.110	0.20	2.21	126.6	0.36	0.028	0.02	24.7	0.878
17:00	10	27.5%	0.110	0.20	2.21	126.6	0.36	0.028	0.02	24.7	0.878
18:00	11	25.0%	0.100	0.20	2.09	120.1	0.35	0.025	0.02	20.5	0.834
19:00	12	30.0%	0.120	0.20	2.32	132.9	0.37	0.032	0.03	29.2	0.921
20:00	13	25.0%	0.100	0.20	2.09	120.1	0.35	0.025	0.02	20.5	0.834
21:00	14	25.0%	0.100	0.20	2.09	120.1	0.35	0.025	0.02	20.5	0.834
22:00	15	27.5%	0.110	0.20	2.21	126.6	0.36	0.028	0.02	24.7	0.878
23:00	16	27.5%	0.110	0.20	2.21	126.6	0.36	0.028	0.02	24.7	0.878
00:00	17	27.5%	0.110	0.20	2.21	126.6	0.36	0.028	0.02	24.7	0.878
01:00	18	20.0%	0.080	0.20	1.85	106.3	0.32	0.018	0.01	13.3	0.741
02:00	19	20.0%	0.080	0.20	1.85	106.3	0.32	0.018	0.01	13.3	0.741
03:00	20	20.0%	0.080	0.20	1.85	106.3	0.32	0.018	0.01	13.3	0.741
04:00	21	20.0%	0.080	0.20	1.85	106.3	0.32	0.018	0.01	13.3	0.741
05:00	22	20.0%	0.080	0.20	1.85	106.3	0.32	0.018	0.01	13.3	0.741
06:00	23	17.5%	0.070	0.20	1.73	99.0	0.30	0.015	0.01	10.2	0.690
07:00	24	20.0%	0.080	0.20	1.85	106.3	0.32	0.018	0.01	13.3	0.741
ar 40 a	[Dimen Of	Alam Da			ND40		Dula		400	
05.12.2	2007	Pump Sta	tion Dra	acevo		MP18		Dpipe		400	mm
05.12.2											
05.12.2	007 No	h/D	h	r	φ	φ	В	A	Q _{orit}	Q _{orit}	V
	No	h/D (%)	h m	F m	(rad)	φ (°)	m	A m²	m³/s	Q _{orit}	V m/s
8:00	No 1	h/D (%) 27.5%	h m 0.110	r m	(rad) 2.21	φ (°) 126.6	m 0.36	A m² 0.028	m³/s 0.02	Q _{orit} /s 24.7	V m/s 0.878
8:00 09:00	No 1 2	h/D (%) 27.5% 27.5%	h m 0.110 0.110	r m 0.20 0.20	(rad) 2.21 2.21	φ (°) 126.6 126.6	m 0.36 0.36	A m² 0.028 0.028	m ³ /s 0.02 0.02	Q _{orit} /s 24.7 24.7	V m/s 0.878 0.878
8:00 09:00 10:00	No 1 2 3	h/D (%) 27.5% 27.5% 30.0%	h m 0.110 0.110	r m 0.20 0.20 0.20	(rad) 2.21 2.21 2.32	φ (°) 126.6 126.6	m 0.36 0.36 0.37	A m ² 0.028 0.028 0.032	m ³ /s 0.02 0.03	Q _{orit} /s 24.7 24.7 29.2	V m/s 0.878 0.878 0.921
8:00 09:00 10:00 11:00	No 1 2 3 4	h/D (%) 27.5% 27.5% 30.0% 27.5%	h m 0.110 0.110 0.120 0.110	r m 0.20 0.20 0.20	(rad) 2.21 2.21 2.32 2.21	φ (°) 126.6 126.6 132.9 126.6	m 0.36 0.36 0.37 0.36	A m ² 0.028 0.028 0.032 0.028	m ³ /s 0.02 0.02 0.03 0.02	Q _{erit} 1/s 24.7 24.7 29.2 24.7	V m/s 0.878 0.878 0.921 0.878
8:00 09:00 10:00 11:00 12:00	No 1 2 3 4 5	h/D (%) 27.5% 27.5% 30.0% 27.5%	h m 0.110 0.120 0.110 0.110	m 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.21 2.32 2.21 2.21	φ (°) 126.6 126.6 132.9 126.6	m 0.36 0.36 0.37 0.36 0.36	A m ² 0.028 0.028 0.032 0.028 0.028	m ³ /s 0.02 0.02 0.03 0.02	Q _{orit} 1/8 24.7 24.7 29.2 24.7 24.7	V m/s 0.878 0.878 0.921 0.878 0.878
8:00 09:00 10:00 11:00 12:00 13:00	No 1 2 3 4 5 6	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5%	h 0.110 0.110 0.120 0.110 0.110	0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.21 2.32 2.21 2.21 2.21	φ (°) 126.6 126.6 132.9 126.6 126.6	m 0.36 0.36 0.37 0.36 0.36	M m² 0.028 0.028 0.032 0.028 0.028 0.028 0.028	m ³ /s 0.02 0.03 0.03 0.02 0.02	Q _{orit} /s 24.7 24.7 29.2 24.7 24.7 24.7	V m/s 0.878 0.878 0.921 0.878 0.878
8:00 09:00 10:00 11:00 12:00 13:00 14:00	No 1 2 3 4 5 6 7	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5%	h 0.110 0.110 0.120 0.110 0.110 0.110	0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.32 2.21 2.21 2.21 2.21 2.21 2.21	φ (°) 126.6 126.6 132.9 126.6 126.6 126.6	m 0.36 0.37 0.36 0.36 0.36	M m² 0.028 0.028 0.032 0.028 0.028 0.028 0.028 0.028	m ³ /s 0.02 0.03 0.03 0.02 0.02 0.02	Q _{orit} /s 24.7 24.7 29.2 24.7 24.7 24.7 24.7	V m/s 0.878 0.878 0.921 0.878 0.878 0.878 0.878
8:00 09:00 10:00 11:00 12:00 13:00 14:00	No 1 2 3 4 5 6 7	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 30.0%	h m 0.110 0.120 0.110 0.110 0.110 0.110	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.21 2.32 2.21 2.21 2.21 2.21 2.21	φ (°) 126.6 126.6 132.9 126.6 126.6 126.6 126.6	m 0.36 0.37 0.36 0.36 0.36 0.36	M m² 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028	m ³ /s 0.02 0.03 0.02 0.02 0.02 0.02 0.03	Q _{orit} /s 24.7 24.7 29.2 24.7 24.7 24.7 24.7 29.2	V m/s 0.878 0.878 0.921 0.878 0.878 0.878 0.878
8:00 09:00 10:00 11:00 12:00 13:00 14:00 16:00	No 1 2 3 4 5 6 7	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 30.0% 27.5%	h m 0.110 0.110 0.120 0.110 0.110 0.110 0.110 0.120 0.110	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.32 2.21 2.21 2.21 2.21 2.21 2.21	Φ (°) 126.6 126.6 132.9 126.6 126.6 126.6 132.9 126.6	m 0.36 0.37 0.36 0.36 0.36 0.38 0.37	M m² 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.032 0.028	m ³ /s 0.02 0.03 0.02 0.02 0.02 0.02 0.02 0.03 0.02	Q _{orit} /s 24.7 24.7 29.2 24.7 24.7 24.7 24.7 29.2 24.7	V m/s 0.878 0.878 0.921 0.878 0.878 0.878 0.878
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00	No 1 2 3 4 5 6 7 8 9 10	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 30.0% 27.5% 30.0%	h m 0.110 0.110 0.120 0.110 0.110 0.110 0.110 0.120 0.110	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.32 2.21 2.21 2.21 2.21 2.21 2.21	Φ (°) 126.6 126.6 132.9 126.6 126.6 126.6 132.9 126.6	m 0.36 0.37 0.36 0.36 0.36 0.36 0.36 0.37	M m² 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.032 0.032 0.032	0.02 0.03 0.02 0.02 0.02 0.02 0.02 0.03 0.02	Q _{orit} /8 24.7 24.7 29.2 24.7 24.7 24.7 24.7 24.7 24.7 29.2 24.7 29.2	V m/s 0.878 0.878 0.921 0.878 0.878 0.878 0.921 0.878
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00	No 1 2 3 4 5 6 7 8 9 10 11	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 30.0% 27.5% 30.0% 27.5%	h m 0.110 0.120 0.110 0.110 0.110 0.110 0.120 0.110	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.32 2.21 2.21 2.21 2.21 2.21 2.32 2.21 2.32 2.21 2.32 2.21	Φ (°) 126.6 126.6 132.9 126.6 126.6 132.9 126.6 132.9 126.6 132.9 126.6 132.9 126.6	m 0.36 0.37 0.36 0.36 0.36 0.36 0.36 0.37 0.36	M m² 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.032 0.028 0.032 0.028 0.032 0.028	m ³ /s 0.02 0.03 0.02 0.02 0.02 0.02 0.03 0.02 0.03	Q _{orit} /s 24.7 24.7 29.2 24.7 24.7 24.7 24.7 24.7 24.7 29.2 24.7 29.2 24.7	V m/s 0.878 0.878 0.921 0.878 0.878 0.878 0.921 0.878 0.921 0.878
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00	No 1 2 3 4 5 6 7 8 9 10 11 12	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 30.0% 27.5% 30.0% 27.5%	h m 0.110 0.110 0.120 0.110 0.110 0.110 0.120 0.110 0.120 0.110	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.32 2.21 2.21 2.21 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32	Φ (°) 126.6 126.6 132.9 126.6 126.6 126.6 132.9 126.6 132.9 126.6 126.6	m 0.36 0.37 0.36 0.36 0.36 0.36 0.37 0.36 0.37	M m² 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028	0.02 0.03 0.02 0.02 0.02 0.02 0.03 0.02 0.03 0.02 0.03	Q _{erit} /s 24.7 24.7 29.2 24.7 24.7 24.7 24.7 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.2 24.7 24.7	V m/s 0.878 0.878 0.921 0.878 0.878 0.878 0.921 0.878 0.921 0.878
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00	No 1 2 3 4 5 6 7 8 9 10 11 12 13	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 30.0% 27.5% 30.0% 27.5% 27.5%	h m 0.110 0.120 0.110 0.110 0.110 0.110 0.120 0.110 0.110 0.110	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.32 2.21 2.21 2.21 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32	Φ (°) 126.6 126.6 132.9 126.6 126.6 132.9 126.6 132.9 126.6 132.9 126.6 126.6 126.6 126.6 126.6	m 0.36 0.37 0.36 0.36 0.36 0.36 0.37 0.36 0.37	0.028 0.028 0.032 0.028 0.028 0.028 0.028 0.032 0.028 0.032 0.028 0.028	m ³ /s 0.02 0.03 0.02 0.02 0.02 0.03 0.02 0.03 0.02 0.02	Q _{erit} /s 24.7 24.7 29.2 24.7 24.7 24.7 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.2 24.7 24.7 24.7 24.7	V m/s 0.878 0.878 0.921 0.878 0.878 0.921 0.878 0.921 0.878 0.878
8:00 09:00 10:00 11:00 12:00 13:00 15:00 16:00 17:00 18:00 20:00 21:00	No 1 2 3 4 5 6 7 8 9 10 11 12 13 14	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 27.5% 30.0%	h m 0.110 0.120 0.110 0.110 0.110 0.110 0.120 0.110 0.110 0.110 0.110	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.32 2.21 2.21 2.21 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32	Φ (°) 126.6 132.9 126.6 128.6 128.6 132.9 126.6 132.9 126.6 132.9 126.6 132.9	m 0.36 0.37 0.36 0.36 0.36 0.36 0.37 0.36 0.37 0.36 0.37	0.028 0.028 0.032 0.028 0.028 0.028 0.028 0.032 0.032 0.028 0.028 0.028	m ³ /s 0.02 0.03 0.02 0.02 0.02 0.03 0.02 0.03 0.02 0.02 0.02 0.03	Q _{erit} /8 24.7 24.7 29.2 24.7 24.7 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.2	V m/s 0.878 0.878 0.921 0.878 0.878 0.921 0.878 0.921 0.878 0.878 0.878
8:00 09:00 10:00 11:00 12:00 13:00 16:00 17:00 18:00 19:00 20:00 21:00	No 1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 30.0% 27.5% 30.0% 27.5% 30.0% 27.5% 27.5% 27.5%	0.110 0.110 0.120 0.110 0.110 0.110 0.110 0.120 0.110 0.120 0.110 0.110 0.120	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.32 2.21 2.21 2.21 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.21	Ψ (°) 126.6 126.6 132.9 126.6 128.6 128.6 132.9 126.6 132.9 126.6 132.9 126.6 132.9 126.6	m 0.36 0.37 0.36 0.36 0.36 0.36 0.37 0.36 0.37 0.36 0.36	M m² 0.028	0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.02 0.03 0.02 0.02	Q _{erit} /s 24.7 24.7 29.2 24.7 24.7 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.2 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7	0.878 0.878 0.878 0.921 0.878 0.878 0.878 0.921 0.878 0.921 0.878 0.878 0.921 0.878
8:00 09:00 10:00 11:00 12:00 13:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00	No 1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 30.0% 27.5% 30.0% 27.5% 27.5% 27.5% 27.5% 27.5%	0.110 0.110 0.120 0.110 0.110 0.110 0.110 0.110 0.120 0.110 0.110 0.110 0.120 0.110	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.32 2.21 2.21 2.21 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.21	Ψ (°) 126.6 126.6 132.9 126.6 126.6 132.9 126.6 132.9 126.6 132.9 126.6 132.9 126.6 126.6 126.6	m 0.36 0.37 0.36 0.36 0.36 0.36 0.37 0.36 0.37 0.36 0.36 0.36	A m² 0.028 0.028 0.028 0.028 0.032 0.028 0.032 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028	0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.02 0.03 0.02 0.02	Q _{erit} /s 24.7 24.7 29.2 24.7 24.7 24.7 29.2 24.7 29.2 24.7 29.2 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7	V m/s 0.878 0.878 0.921 0.878 0.878 0.878 0.921 0.878 0.878 0.878 0.878 0.878
8:00 09:00 10:00 11:00 12:00 13:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 00:00	No 1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 30.0% 27.5% 30.0% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5%	0.110 0.110 0.120 0.110 0.110 0.110 0.110 0.120 0.110 0.110 0.110 0.120 0.110 0.110	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.32 2.21 2.21 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.21	Ψ (°) 126.6 126.6 132.9 126.6 128.8 128.8 129.1 126.6 132.9 126.6 132.9 126.6 126.6 126.6 126.6	m 0.36 0.37 0.36 0.36 0.36 0.36 0.37 0.36 0.37 0.36 0.36 0.36	A m² 0.028 0.028 0.028 0.028 0.028 0.032 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028	0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.02 0.03 0.02 0.02	Q _{erit} /s 24.7 24.7 29.2 24.7 24.7 24.7 29.2 24.7 29.2 24.7 24.7 29.2 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7	V m/s 0.878 0.878 0.921 0.878 0.878 0.878 0.921 0.878 0.878 0.878 0.878 0.878
8:00 09:00 10:00 11:00 12:00 13:00 16:00 17:00 18:00 20:00 21:00 22:00 23:00 00:00 01:00	No 1 2 3 4 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5%	0.110 0.110 0.120 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.32 2.21 2.21 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32	Ψ (°) 126.6 126.6 132.9 126.6 128.8 126.6 132.9 126.6 132.9 126.6 132.9 126.6 126.6 132.9 126.6 131.3	m 0.36 0.37 0.36 0.36 0.36 0.36 0.37 0.36 0.37 0.36 0.36 0.36 0.36	A m² 0.028	0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.02 0.03 0.02 0.02	Q _{erit} /s 24.7 24.7 29.2 24.7 24.7 24.7 29.2 24.7 29.2 24.7 24.7 29.2 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 25.2 24.7 24.7 26.7 26.7 26.7 26.7 26.7	V m/s 0.878 0.878 0.921 0.878 0.878 0.878 0.921 0.878 0.878 0.878 0.878 0.878 0.878
8:00 09:00 10:00 11:00 12:00 13:00 16:00 17:00 18:00 20:00 21:00 22:00 00:00 01:00 02:00	No 1 2 3 4 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5%	0.110 0.110 0.120 0.110 0.110 0.110 0.110 0.120 0.110 0.110 0.110 0.120 0.110 0.110 0.110 0.110	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.32 2.21 2.21 2.21 2.21 2.32 2.21 2.32 2.21 2.21	Ψ (°) 126.6 132.9 126.6 126.6 126.6 126.6 132.9 126.6 132.9 126.6 132.9 126.6 132.9 126.6 131.3	m 0.36 0.37 0.36 0.36 0.36 0.37 0.36 0.37 0.36 0.36 0.37 0.36 0.33	A m² 0.028 0.028 0.028 0.028 0.032 0.028 0.021 0.021	0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.02 0.03 0.02 0.02	Q _{arit} /s 24.7 24.7 29.2 24.7 24.7 24.7 29.2 24.7 29.2 24.7 24.7 29.2 24.7 24.7 27	V m/s 0.878 0.878 0.921 0.878 0.878 0.878 0.921 0.878 0.878 0.921 0.878 0.878 0.921 0.878
8:00 09:00 10:00 11:00 12:00 13:00 14:00 16:00 17:00 20:00 21:00 22:00 23:00 00:00 01:00 02:00 03:00	No 1 2 3 4 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5%	0.110 0.110 0.120 0.110 0.110 0.110 0.110 0.120 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.32 2.21 2.21 2.21 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.39 2.21 2.39 2.21 2.39 2.21 2.39 2.21 2.39 2.21 2.39 2.21 2.39 2.21 2.39 2.21 2.39 2.21 2.39 2.39 2.39 2.39 2.39 2.39 2.39 2.39	Ψ (°) 126.6 132.9 126.6 126.6 126.6 126.6 132.9 126.6 132.9 126.6 132.9 126.6 132.9 126.6 131.3 113.3	m 0.36 0.37 0.36 0.36 0.36 0.37 0.36 0.37 0.36 0.36 0.36 0.33 0.33	A m² 0.028 0.028 0.028 0.028 0.032 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.021 0.021 0.021	0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.02 0.03 0.02 0.02	Q _{arit} /s 24.7 24.7 29.2 24.7 24.7 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.2 24.7 27.7 28	V m/s 0.878 0.878 0.921 0.878 0.878 0.878 0.921 0.878 0.878 0.921 0.878 0.878 0.921 0.878
8:00 09:00 10:00 11:00 12:00 13:00 14:00 16:00 17:00 20:00 21:00 22:00 22:00 00:00 01:00 02:00 03:00 04:00	No 1 2 3 4 4 5 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 30.0% 27.5%	0.110 0.110 0.120 0.110 0.110 0.110 0.110 0.120 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.32 2.21 2.21 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.38 2.21 2.39 2.21 2.39 2.21 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30	Ψ (°) 126.6 132.9 126.6 126.6 126.6 126.6 132.9 126.6 132.9 126.6 132.9 126.6 131.9 126.6 131.9 126.6 131.9 126.6 131.9 126.6 131.9 126.6	m 0.36 0.37 0.36 0.36 0.36 0.37 0.36 0.37 0.36 0.36 0.37 0.36 0.33 0.33	A m² 0.028 0.021 0.021 0.021 0.021 0.018	0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.02 0.03 0.02 0.02	Q _{arit} /s 24.7 24.7 29.2 24.7 24.7 24.7 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.2 24.7 27.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 38	V m/s 0.878 0.878 0.921 0.878 0.878 0.878 0.921 0.878 0.921 0.878 0.878 0.921 0.878 0.788 0.788
8:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 19:00 20:00 21:00 22:00 00:00 01:00 02:00 04:00 05:00	No 1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 27.5% 27.5% 27.5% 20.0% 27.5% 22.5% 20.0% 20.0%	0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.120 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.100 0.000	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.32 2.21 2.21 2.21 2.21 2.32 2.21 2.32 2.21 2.21	Ψ (°) 126.6 132.9 126.6 126.6 126.6 126.6 132.9 126.6 132.9 126.6 132.9 126.6 131.3 113.3 113.3 106.3	m 0.36 0.37 0.36 0.36 0.36 0.37 0.36 0.37 0.36 0.36 0.37 0.36 0.33 0.33	A m² 0.028 0.021 0.021 0.021 0.021 0.018 0.018	0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.02 0.03 0.02 0.02	Q _{arit} /s 24.7 24.7 29.2 24.7 24.7 24.7 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.7 24.7 27.7 27.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 38.7 38.7 38.3 38.3	V m/s 0.878 0.878 0.921 0.878 0.878 0.878 0.921 0.878 0.878 0.921 0.878 0.878 0.788 0.788 0.788
8:00 09:00 10:00 11:00 12:00 13:00 14:00 16:00 17:00 20:00 21:00 22:00 22:00 00:00 01:00 02:00 03:00 04:00	No 1 2 3 4 4 5 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21	h/D (%) 27.5% 27.5% 30.0% 27.5% 27.5% 27.5% 30.0% 27.5%	0.110 0.110 0.120 0.110 0.110 0.110 0.110 0.120 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	(rad) 2.21 2.32 2.21 2.21 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.32 2.21 2.38 2.21 2.39 2.21 2.39 2.21 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.30	Ψ (°) 126.6 132.9 126.6 126.6 126.6 126.6 126.6 132.9 126.6 132.9 126.6 132.9 126.6 133.3 113.3 113.3 106.3 113.3	m 0.36 0.37 0.36 0.36 0.36 0.37 0.36 0.37 0.36 0.36 0.37 0.36 0.33 0.33	A m² 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.021 0.021 0.021 0.021 0.021 0.021 0.021 0.021 0.021	0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.02 0.03 0.02 0.02	Q _{arit} /s 24.7 24.7 29.2 24.7 24.7 24.7 24.7 29.2 24.7 29.2 24.7 29.2 24.7 29.2 24.7 27.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7 38	V m/s 0.878 0.878 0.921 0.878 0.878 0.878 0.921 0.878 0.878 0.921 0.878 0.878 0.925 0.878 0.878 0.878

Flow rate as a result of pums work and reservoir water level
27.11.2007 Pump Station Dracevo MP18

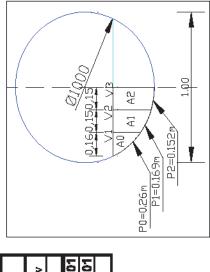
27.11.2	007	Pump Sta	tion Dra	BCBVO		MP18					
	No	T pumps /hour	T pump /hour	Water Level in Collect. Manhole H1	Water Level in Pump Rezer H2	Q pumps	Wpum	Volume of Reservoi rs Wrez	dW	Volume of inflow into Reserv. Winf	Q inflow
oxdot		(hour)	(88C)	(cm)	(cm)	(Vs)	(m3)	(m3)	(m3)	(m3)	(l/s)
8:00	1	976.58	792	65	115	15.4	55	61.44		55	
09:00	2	976.8	1404	70	120	27.3	98	64.22	2.78	101	28.1
10:00	3	977.19	1260	75	120	24.5	88	64.47	0.25	88	
11:00	4	977.54	1476	70	125	28.7	103	66.75	2.28	106	
12:00	5	977.95	1296	75	115	25.2	91	61.94	-4.81	86	
13:00	6	978.31	1188	75	115	23.1	83	61.94	0	83	23.1
14:00	7	978.64	1296	75	120	25.2	91	64.47	2.53	93	25.9
15:00	8	979	1296	80	125	25.2	91	67.25	2.78	94	26.0
16:00	9	979.36	1476	75	120	28.7	103	64.47	-2.78	101	27.9
17:00	10	979.77	1296	80	120	25.2	91	64.72	0.25	91	25.3
18:00	11	980.13	1224	70	115	23.8	86	61.69	-3.03		
19:00	12	980.47	1584	75	120	30.8	111	64.47	2.78	114	31.6
20:00	13	980.91	1044	65	115	20.3	73	61.44	-3.03	70	19.5
21:00	14	981.2	1116	65	110	21.7	78	58.91	-2.53	76	
22:00	15	981.51	1368	70	115	26.6	96	61.69	2.78	99	
23:00	16	981.89	1260	70	115	24.5	88	61.69	0	88	
00:00	17	982.24	1188	65	115	23.1	83	61.44	-0.25	83	
01:00	18	982.57	756	65	115	14.7	53	61.44	0	53	
02:00	19	982.78	756	65	110	14.7	53	58.91	-2.53	50	
03:00	20	982.99	648	65	110	12.6	45	58.91	0	45	
04:00	21	983.17	576	70	120	11.2	40	64.22	5.31	46	
05:00	22	983.33	684	65	115	13.3	48	61.44	-2.78	45	
06:00	23	983.52	540	65	110	10.5	38		-2.53		
07:00	24	983.67	648	65	110	12.6	45	58.91	0	45	
		983.85								Qavg inf=	21.2

05.12.2	007	Pump Sta	tion Dra	acevo		MP18					
	No	T pumps /hour	T pump /hour	Water Level in Collect. Manhole H1	Water Level in Pump Rezer H2	Q pumps	Wpum	Volume of Reservol rs Wrez	dW	Volume of inflow into Reserv. Wdot	Q inflow
		(hour)	(sec)	(cm)	(cm)	(l/s)	(m ³)	(m³)	(m ³)	(m3)	(l/s)
8:00	1	45.91	1224	75	110	23.8	86	55.66		86	23.8
9:00	2	46.25	1224	08	115	23.8	86	58.19	2.53	88	24.5
10:00	3	46.59	1404	75	120	27.3	98	60.72	2.53	101	28.0
11:00	4	46.98	1296	80	105	25.2	91	53.13	-7.59	83	23.1
12:00	5	47.34	1368	75	110	26.6	96	55.66	2.53	98	27.3
13:00	6	47.72	1260	75	115	24.5	88	58.19	2.53	91	25.2
14:00	7	48.07	1260	08	120	24.5	88	60.72	2.53	91	25.2
15:00	8	48.42	1260	80	110	24.5	88	55.66	-5.06	83	23.1
16:00	9	48.77	1332	75	125	25.9	93	63.25	7.59	101	28.0
17:00	10	49.14	1296	70	120	25.2	91	60.72	-2.53	88	24.5
18:00	11	49.5	1512	75	110	29.4	106	55.66	-5.06	101	28.0
19:00	12	49.92	1224	60	120	23.8	86	60.72	5.06	91	25.2
20:00	13	50.26	1332	70	110	25.9	93	55.66	-5.06	88	24.5
21:00	14	50.63	1476	75	120	28.7	103	60.72	5.06	108	30.1
22:00	15	51.04	1152	70	115	22.4	81	58.19	-2.53	78	21.7
23:00	16	51.36	1476	57	108	28.7	103	54.648	-3.542	100	27.7
0:00	17	51.77	1044	70	115	20.3	73	58.19	3.542	77	21.3
1:00	18	52.06	828	75	120	16.1	58	60.72	2.53	60	16.8
2:00	19	52.29	1008	65	115	19.6	71	58.19	-2.53	68	18.9
3:00	20	52.57	936	70	110	18.2	66	55.66	-2.53	63	17.5
4:00	21	52.83	576	75	115	11.2	40	58.19	2.53	43	11.9
5:00	22	52.99	612	75	120	11.9	43	60.72	2.53	45	12.6
6:00	23	53.16	864	60	110	16.8	60	55.66	-5.06	55	15.4
07:00	24	53.4	900	75	120	17.5	63	60.72	5.06		18.9
		53.65								Qavg inf=	22.6



Outlet	Outlet N.Lisice		MP12		Contro	measu	Irement	Control measurement with curent meter (propeler)	ent mete	r (prop	eler)	_
δÑ	п	н	t-1I	N_{R1}	t1-II	N_{R2}	R.1	R2	V3-I	И3-П	V3-I V3-II V3av(I+II)	V3av
-		Ε	sec		sec		rot/sec	rot/sec rot/sec	m/s	m/s	s/m	
		0.15	15	111	30	232	7.40	7.73	1.943	2.030	1.986	1.958
	7	0.1	15	110	30	221	7.33	7.37	1.925	1.934	1.930	1.958
	3	0.28										
Hydrau	Hydraulic radius	ius				R=A/P						
						y=2.5*s(qrt(n)-0.1	y=2.5*sqrt(n)-0.13-0.75*sqrt(R)*(sqrt(n)-0.1)	qrt(R)*(s	qrt(n)-0.	5	
Schez	Schezy coeficient	ient				C=R ^{X*} 1/n	Ę.					
Velocii	ty char	Velocity characteristic coeficient	eficient			kv=C*sqrt(R)	art(R)					
Velocity	≥					V=kv*sqrt(i)	art()					
Coefic	ient de	Coeficient dependent of type of ground	lype of g	punati		a=V/V _{max}	ĸ	a=0.5-0.9	a=	0.7		
Mannir	Manning coeficient	Tcient				Ë	0.012					
	ı					Q1/2=a*	Vlav*A	0+0.5*(V)	Tav+V2	av)*A1-	Q _{1/2} =a*V1av*A0+0.5*(V1av+V2av)*A1+0.5*(V2av+V3av)*A2	tv+V3av
								,		•	,	

2 de 1900 de 1	Wet Perom eter P	Hydra ullc radius		J	٤	Ave	Average	Calculat	Calculated Flow
(m²)	(m)	í Œ		(m ^{0.5} /s)	2	(m)	(m/sec)	(m ₃ /	(m³/sec)
0.034		0.079	0.142	0.43 0.079 0.142 58.144	16.35 Vlav=	Vlav=	0.899	a =	0.021
90.0		0.41 0.195	0.141	0.141 66.216	29.25	V2av=	1.608	-Z	0.100
0.11	0.415 0.265	0.265		0.14 69.181	35.62	V3av=	1.958	a =£	0.196
								Q1/2=	0.318
								0	0.636



	_	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0,160,150,15	E/> C/> I/>]	Pn=n95;	P1=0.169m	P2=0.152m	1:00	
+II] V1av		35 2.401	68 2.401							

V1-II V12v(I-

V1-I s/m

2

R1

t1-Π sec

ž

H Ε

8 S

Outlet Pivara

sec t-11 를 교

S/III

rot/sec rot/sec

2.572

10.53

9.8

1.681

9.87

6.4

148 158

15 15

49 32

0.3 0.1

Control measurement with curent meter (propeler)

y=2.5*sqrt(n)-0.13-0.75*sqrt(R)*(sqrt(n)-0.1) R=A/P

C=R**1/n

kv=C*sqrt(R)

Velocity characteristic coeficient

Velocity

Schezy coeficient

Hydraulic radius

V=kv*sqrt(I) a=V/V

Coeficient dependent of type of ground

Manning coeficient

0.7 ii B a=0.5-0.9

O.,=a*V1av*A0+0.5*(V1av+V2av)*A1+0.5*(V2av+V3av)*A2 0.012 E

-										
(1/2 a ries avio.) (ries (zer) zer) (ries)			ed Flow	g.	(m³/sec)	0.013	0.055	0.097	0.164	0.328
447 (45			Calculated Flow	rate	(m ₃ /	O ₁ =	Q ₂ =	Q ₃ =	Q1/2=	- 0
74 1 401			Average	cfty	(m/sec)	0.984	1.995	2.401		
2.0.0			Ave	Valocity	/m)	15.41 Vlav=	V2av=	V3av=		
A TOTA				k			31.23 V2av=	37.59		
ر الا				ပ	(s/ _{5'0} m)	0.0186 0.258 0.072 0.142 57.376	0.0366 0.169 0.216 0.141 67.19	0.14 70.013		
				У		0.142	0.141	0.14		
	Hydra	S F	radius	2	(w)	0.072	0.216	0.0439 0.152 0.288		
	Wet	Регот	eter	Ь	(m)	0.258	0.169	0.152		
				Segmet's Area	(m²)	0.0186	0.0366	0.0439		
				Segn		¥0=	Al=	A2=		

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	Preparation for cross section survey																													
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_	4 hour																													
	5 I faze River Flow rate measur. 1 h																													
	6 I faze Water sampling		\vdash	\vdash	\vdash								\vdash						Н	H	\vdash									
	I faze Laboratory examination (2																													
	7 laboratories)		\dashv	\dashv	\dashv	\dashv	\int		j	f	ł	┙	4	4	4			\forall	\dashv	\dashv	\dashv	\dashv	\dashv	4	4	4	\Box		\Box	Т
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7	16 Preparation of draft report		\dashv	\dashv	\dashv	\Box				\dashv	\dashv	\dashv	\dashv		Щ			\exists	\dashv	\dashv	\dashv	\dashv	\dashv		-	4				
	17 Preparation of final report		\dashv	\dashv	\dashv	_	\Box			\dashv	\dashv	\dashv	\dashv	_	\dashv			\dashv	\dashv	\dashv	\dashv	\dashv	\dashv	\dashv	4	4				

28.11.2007 Results of Central Laboratory analisys

	Hour of	San	ıple		COD 2202202	Phenol	Normal - hexan Extracts	<u>SiO </u>	<u>TN</u>
No	sampling	La	-	Description of location	mg/L O ₂	mg/L	mg/L	mg/L	mg/L
						Metods of a	nalisys		
					M54 ISO	M54 ISO	M54 1303		M54 ISO
Ш		<u> </u>			6060	6439		11885	11905
1	06:30		R	Stil bridge Saraj	9,80	,	,		
2	07:00	2	R	Sport centar Saraj -Treska	6,86	< 0,002	0,4	4,49	1,36
3	07:30	3	R	Lepenec	4,90	< 0,002	0,4	8,77	1,78
4	07:45	4	R	Bridge Lepenec CS2	9,80	0,003	0,8	8,79	1,92
5	07:15	5	R	Pedestrian crossing Bardovci CS3	6,86	0,010	0,9	8,56	1,78
6	08:30	6	S	Sewage pipe - Bardovci	49,00	0,021	2,6	11,80	11,91
7	06:00	7	R	Bridge Unated Nations	0,98	0,006	0,6	5,78	2,03
8	08:45	8	R	CS4 - Center	6,86	0,002	< 0,1	7,06	2,50
9	09:45	9	T	Industry outlet Pivara	11,80	0,211	7,9	12,00	21,11
10	10:00	10	_	Industry outlet Makstll	196,00	0,009	1,1	7,08	2,57
11	09:15	11	R	Bridge N.Lisice	4,90	0,009	0,3	6,42	1,91
12	09:30	12	S	Sewage pipe - Aerodrom - N.Lisice	90,20	0,220	4,3	12,20	20,80
13	10:15	13	R	Location between sewage pipe and Industry pipe	8,82	0,027	0,3	6,84	2,37
14	10:30	14	R	Outlet from unlegal settelment Lisice	9,80	0,014	,		
15	10:45	15	R	Pipe under bridge	5,88	0,012	0,5	6,42	2,96
16	11:00	16	R	Open chanel	5,88	0,012	0,7	6,40	3,08
17	11:30	17	R	Bridge Jurulljari CS5	9,80	0,009	0,2	6,37	3,01
18	12:00	18	S	Pump station Dracevo	215,70	0,450	10,0	11,80	33,61

06.12.2007 Results of Central Laboratory analisys

	Hour of	Labor	Sa	mple		COD ETCETOZ	Phenol	Normal - hexan Extracts	<u>SiO</u> 2	<u>TN</u>
No	sampli	atory		abel	Description of location	mg/L O ₂	mg/L	mg/L	mg/L	mg/L
ı	ng	Label	~				Metods of	analisys		
						M54 ISO 6060	M54 ISO 6439	M54 1303	M54 ISO 11885	M54 ISO 11905
<u> </u>	24.22	10000	4		Otti hatdara Ornat			0.1		
\perp 1	06:30	10988	1	R	Stll bridge Saraj	5,88	< 0,002	0,1	8,15	5,29
2	07:00	10989	2	R	Sport centar Saraj -Treska	0,98	< 0,002	< 0,1	4,19	2,23
3	07:30	10990	3	R	Lepenec	7,84	< 0,002	0,5	8,56	2,69
4	07:45	10991	4	R	Bridge Lepenec CS2	5,88	< 0,002	0,4	8,69	2,74
5	07:15	10992	5	R	Pedestrian crossing Bardovci CS3	4,90	0,011	< 0,1	8,73	3,08
6	08:30	10993	6	S	Sewage pipe - Bardovci	33,30	0,008	< 0,1	11,60	11,68
7	06:00		7	R	Bridge Unated Nations	3,90	0,005	0,1		1,04
8	08:45	10995	8	R	CS4 - Center	4,90	< 0,002	0,2	7,81	0,85
9	09:45		9	T	Industry outlet Pivara	9,80	0,005	4,7		15,78
10	10:00	10997	10	T	Industry outlet Makstil	156,90	0,005	< 0,1	11,50	1,38
11	09:15	10998	11	R	Bridge N.Lisice	14,70	0,007	0,2		1,49
12	09:30	10999	12	S	Sewage pipe - Aerodrom - N.Lisice	114,00	0,021	1,6	11,00	19,89
13	10:15	11000	13	R	Location between sewage pipe and Industry pipe	7,84	0,009	< 0,1	7,34	2,63
14	10:30	11001	14	R	Outlet from unlegal settelment Lisice	3,92	0,014	0,1	7,57	1,58
15	10:45	11002	15	R	Pipe under bridge	8,82	0,007	0,1	7,49	1,82
16	11:00	11003	16	R	Open chanel	6,86	0,010	< 0,1	7,51	2,43
17	11:30	11004	17	R	Bridge Jurulljari CS5	3,92	0,009	0,1	7,55	2,55
18	12:00	11005	18	S	Pump station Dracevo	196,00	0,327	7,1	11,60	30,78

Serie	Series 1:28.11.2007	11.2007		Bio - c	Bio - chemical			Phis	ic - chemi	Phisic - chemical parameters	eters		
No	Hour of	Labora tory	Labora Description of location tory	oa	BODs	NO, as N	NO 3 as N	NH, as N	Hď	×	°05	SS	a
	Surreput Rg	raper		1/Bw	mg/l	1/Bm	mg/l	Ng/I		μs/cm	1/8m	V ⁸ m	mg/l
1	06:30		14224 Stil bridge Saraj	12,0	2,0	0,19	23,0	0,18	8,7	268	15,0	271,0	10
2	00:00		14225 Sport centar Saraj -Treska	12,0	1,5	90,0	13,0	0,21	8,1	358	12,0	262,0	12
3	07:30		14226 Lepenec	13,0	1,0	0,24	17,5	0,31	7,7	276	22,6	267,0	13
4	07:45		14255 CS2 Bridge Lepenec	13,0	3,0	0,25	20,5	92,0	7,8	266	22,0	293,0	10
5	07:15		14256 CS3 Pedestrian crossing Bardovci	12,0	2,0	0,23	21,0	0,34	7,6	276	21,0	281,0	11
9	08:30		14258 Sewage pipe - Bardovci	8,0	11,0	0,25	15,0	0,50	7,8	633	15,0	418,0	21
7	00:90		14259 Bridge Unated Nations	11,0	4,0	0,11	7,8	0,20	9,9	334	11,5	226,0	10
90	08:45		14260 CS4 - Center	11,0	3,5	0,20	8,0	0,37	7,3	324	16,0	313,0	11
9	09:45		14261 Industry outlet Pivara	2,0	80,0	0	2,0	16,0	7,3	864	36,5	643,0	51
10	10:00		14264 Industry outlet Makstil	0	14,0	90'0	2,0	2,0	6,5	772	8,0	594,0	15
11	09:15		14265 Bridge N.Lisice	12,0	2,0	0,18	7,4	0,24	7,7	318	15,0	294,0	12
12	09:30		14267 Sewage pipe - Aerodrom - N.Lisice	0,6	50,0	1,0	2,0	24,0	7,7	938	35,0	653,0	53
13	10:15		Location between sewage pipe and 14268 Industry pipe	11,0	2,5	0,22	13,5	0,47	7,8	336	16,0	254,0	12
14	10:30		14269 Outlet from unlegal settelment Lisice	10,0	2,0	0,21	5,6	0,54	7,3	340	13,0	328,0	28
15	10:45		14270 Pipe under bridge	11,0	3,0	0,25	11,0	0,87	7,4	325	13,3	224,0	18
16	11:00		14271 Open chanel	11,0	4,0	0,24	13,0	0,70	7,7	314	15,3	295,0	14
17	11:30		14272 CS5 Bridge Jurulljari	11,0	3,0	0,24	14,5	9/,0	7,6	325	12,0	331,0	20
18	12:00		14273 Pump station Dracevo	0,4	22,0	0	2,0	32,0	8,0	986	0,09	548,0	53

Serie	Series 1:28.11.2007	11.2007			Ph Ph	Phisic - chemical parameters	mical pa	arameten	nd:	
No	Hour of	Labora tory	Labora Description of location tory	C.S.	PO4	T-P	F	Color	Odor	Transpa rency
	sampu Laver	raner		mg/l	1/8m	1/8m	1/8m	Pt	роен	(NTU)
	06:30		14224 Stil bridge Saraj	0	2.4	0.8	0.043	0	1	16
2	07:00		14225 Sport centar Saraj -Treska	0	0.7	0.23	90.0	0	1	6
3	02:30		14226 Lepenec	0	3.19	1	0.22	0	1	7
4	07:45		14255 CS2 Bridge Lepenec	0	3.66	1.2	0.17	0	1	4
5	07:15		14256 CS3 Pedestrian crossing Bardovci	0	3.53	1.18	0.13	0	1	0
9	6 08:30		14258 Sewage pipe - Bardovci	0	26.6	8.7	0.15	0	1	0
7	06:00		14259 Bridge Unated Nations	0	3.61	1.17	0.1	0	1	9
00	08:45		14260 CS4 - Center	0	2.81	0.92	0.14	0	1	12
9	09:45		14261 Industry outlet Pivara	0	48	15.6	0.23	0	1	21
10	10:00		14264 Industry outlet Makstil	0	1.16	0.38	0.1	0	1	3
11	09:15		14265 Bridge N.Lisice	0	2.95	0.98	0.26	0	1	9
12	09:30		14267 Sewage pipe - Aerodrom - N.Lisice	0	48.25	15.75	0.05	0	1	3
13	10.15		Location between sewage pipe and		6.0	<i>L</i>	Û	O	-	
14		1	14269 Outlet from unlegal settelment Lisice		11.16		3.63 0.16	0		16
15	10:45		14270 Pipe under bridge	0	7.7	2.51	0.11	0	1	17
16	11:00		14271 Open chanel	0	7.35	2.4	0.11	0	1	8
17	11:30		14272 CSS Bridge Jurulljari	0	3.67	1.2	0.13	0	1	7
18	12:00		14273 Pump station Dracevo	0	57.4	18.7	0.14	0	1	33

Serie	Series 2:06.12.2007	2,2007		Bio - c	Bio - chemical			Phisi	c - chem	Phisic - chemical parameters	meters		
Νo	Hour of	Laborat	Hour of Laborat Description of location	oa	ROD 5	NO 2 as	N03	NΗ	Ηd	æ	≯os	SS	C
	samplin ory	סיד. ב				N	as N	as N					
	ρū	Label		1/Sta	₩g/l	1/Bm	1/8m	₩g/l		μs/cm	1/8 u u	1/8m	1/Bu
1	06:30		14575 Stil bridge Saraj	11,0	1,5	0,082	1,0	0.101	8,2	324	0,9	247,0	10
2	00:00		14576 Sport centar Saraj -Treska	11,0	2,0	0,0456	0,912	0.272	8,2	403	4,6	201,0	10
m	07:30		14577 Lepenec	12,0	3,0	0,0729	90.70	0.248	8,1	275	8,3	236,0	6
4	07:45		14578 CS2 Bridge Lepenec	12,0	1,0	8990'0	0.843	0.241	8,0	273	9,6	211,0	6
5	07:15		14579 CS3 Pedestrian crossing Bardovci	12,4	1,0	8990'0	1.094	0.178	7,8	284	0,6	219,0	6
9	08:30		14580 Sewage pipe - Bardovci	9,4	4,0	9,000	1.368	4.668	7,8	999	20,02	431,0	23
7	06:00		14581 Bridge Unated Nations	12,0	0,5	0,0699	0.957	0.202	8,1	365	0,9	216,0	11
00	08:45		14582 CS4 - Center	11,5	2,0	0,0912	0.638	0.420	7,7	362	7,4	225,0	11
9	09:45		14583 Industry outlet Pivara	5,7	1,0	0	0	9.336	7,7	851	37,0	541,0	54
10	10:00		14584 Industry outlet Makstil	11,0	10,0	0,0729	0.912	0.778	8,0	589	9,6	265,0	24
11	09:15		14585 Bridge N.Lisice	13,0	2,0	0,097	0.615	0.280	8,2	342	7,3	232,0	10
12	09:30		14586 Sewage pipe - Aerodrom - N.Lisice	3,4	5,6	0	0	15.56	8,0	884	31,3	601,0	55
13	10:15		Location between sewage pipe and 14587 Industry pipe	12,5	1,3	990'0	0.478	0.622	8,1	365	40,0	253,0	14
14	10:30		14588 Outlet from unlegal settelment Lisice	12,0	20,0	0,103	1.00	0.614	8,0	355	90	231,0	11
15	10:45		14589 Pipe under bridge	12,5	3,0	260,0	0.661	0.731	7,5	354	8,0	242,0	11
16	11:00		14590 Open chanel	12,3	4,0	0,10	1.162	0.855	7,9	352	7,7	275,0	10
17	11:30		14591 CS5 Bridge Jurulljari	13,0	2,0	0,0972	1.66	9/9/0	8,0	350	8,0	263,0	10
18	12:00		14592 Pump station Dracevo	4,0	2,5	0	٥	31.12	9,0	866	62,0	586,0	99

Serie	Series 2:06.12.2007	73.2007			Phisi	Phisic - chemical parameters	ical para	ameters		
Νo	Hour of Labora	Laborat	st Description of location	ζς	PO.	T-P	F	Color	Odor	Transpa
	samplin ory	ory.								rency
	th()	Label		1/5m	Mg/l	1/5W	1/5W	Pt	роен	(NTC)
1	06:30	1457	75 Stil bridge Saraj	0	1.5		0.26	0	1	18
2	00:00	1457	16 Sport centar Saraj -Treska	0	1.67	0.54	0.17	0	1	16
3	07:30	14577	Lepenec	0	5.74	18.7	0.23	0	1	31
4	07:45	1457	78 CS2 Bridge Lepenec	0	3.29	1	0.21	0	1	3
5	07:15	145	79 CS3 Pedestrian crossing Bardovci	0	2.94	0.95	0.25	0	1	1
9	08:30		14580 Sewage pipe - Bardovci	0	29.94	8.6	0.34	0	1	0
7	00:90	145	81 Bridge Unated Nations	0	33.73	11.1	0.27	0	1	5
00	08:45		14582 CS4 - Center	0	5.54	1.8	0.34	0	1	10
6	09:45		14583 Industry outlet Pivara	0	33.5	11	0.4	0	1	18
10	10:00	145	84 Industry outlet Makstil	0	0	0	0.91	0	1	2
11	09:15	145	85 Bridge N.Lisice	0	1.38	0.45	0.27	0	1	9
12	09:30		14586 Sewage pipe - Aerodrom - N.Lisice	0	8.92	2.9	0.33	0	1	4
			Location between sewage pipe and							
13	10:15	145	87 Industry pipe	0	3.18	1	0.2	0	1	0
14	10:30	1458	38 Outlet from unlegal settelment Lisice	0	3.96	1.3	0.12	0	1	14
15	10:45		14589 Pipe under bridge	0	4.9	9.1	0.28	0	1	14
16	11:00		14590 Open chanel	0	4.9	1.6	0.3	0	1	10
17	11:30	145	91 CS5 Bridge Jurulljari	0	5.17	1.7	0.22	0	1	5
18	12:00	Ш	14592 Pump station Dracevo	0	55.46	18.1	0.34	0	2	35

								Heavy metals	netals				
Serie	s I :28.	Series 1:28.11.2007											
Νo	Hour	Labora	Hour Labora Description of location	As	윤	8	ភ	æ	M	ö	Z	훈	R
	, fo	tory		(h&r)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(Jugu)	(h&rlr)	(mg/L)
	ndwos	Label											
1	06:30		14224 Stil bridge Saraj	< 0.003	0.004	0.0004	0.025	1.525	0.003	0.019	0.0	0.214	4.8
2	00:20	ı	14225 Sport centar Saraj -Treska	< 0.003	< 0.0013	< 0.0001	0.075	1.45	0.002	0.016	0.0	0.229	5.3
3	02:30		14226 Lepenec	< 0.003	< 0.0013	< 0.0001	0.05	1.68	0.013	0.009	0.0	1.409	8.6
4	07:45		14255 CS2 Bridge Lepenec	< 0.003	< 0.0013	< 0.0001	0.025	1.88	0.058	0.010	0.0	1.641	3.85
5	07:15		14256 CS3 Pedestrian crossing Bardovci	1.0	< 0.0013	< 0.0001	0.05	4.48	0:004	0.001	0.001	0.52	4
9	08:30	ı	14258 Sewage pipe - Bardovci	< 0.003	< 0.0013	< 0.0001	0.0751	1.1	0.021	0.001	0.002	0.352	5.5
7	00:90		14259 Bridge Unated Nations	1.0	< 0.0013	< 0.0001	0.025	2.25	0:004	0.003	0.0	0.85	9
90	08:45		14260 CS4 - Center	< 0.003	0.001	0.0002	0.005	1.25	0.002	0.003	0.001	1.25	4.5
6	09:45		14261 Industry outlet Pivara	1.0	0.005	0.0004	0.05	1.38	0.002	0.003	0.0	0.4	5.2
10	10:00		14264 Industry outlet Makstil	6.0	0.049	0.001	0.075	0.78	0.008	0.004	0.0	0.382	7
11	09:15		14265 Bridge N.Lisice	< 0.003	< 0.0013	0.0003	0.025	1.6	0.002	0.004	0.0	9.05	£
12	06:30		14267 Sewage pipe - Aerodrom - N.Lisice	2.0	0.010	0.001	< 0.05	7.9	0.016	< 0.0005	0.001	< 0.04	5.2
			Location between sewage pipe and										
13	10:15		14268 Industry pipe	< 0.003	< 0.0013	< 0.0001	0.025	1.53	0.011	0.019	0.0	0.09	5.1
14	10:30		14269 Outlet from unlegal settelment Lisice	1.0	< 0.0013	< 0.0001	0.05	2.53	0:030	0.015	0.0	3.13	5.5
15	10:45		14270 Pipe under bridge	31	0.047	0.002	0.35	64	0.150	0.487	0.075	0.8	4.5
16	11;00		14271 Open chanel	< 0.003	< 0.0013	< 0.0001	0.025	3.42	0.037	0.037	0.003	0.23	6.2
17	11:30		14272 CS5 Bridge Jurulljari	< 0.003	< 0.0013	< 0.0001	0.03	0.83	0.005	0.009	0.0	0.503	S
18	12:00		14273 Pump station Dracevo	< 0.003	< 0.0013	0.001	90.0	0.61	0.018	0.011	0.0	0.717	5.5

								Heavy metals	etals				
Serie	Series 2:06.12.2007	12.2007										Г	
Νo	Howr of	Laborat	Hour of Laborat Description of location	As	Q	8	ų	Fe	Ē	ច់	Z	£	S.
	Samplin ory	מבה		(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(rg/L)	(mg/L)
	06:30		14575 Stil bridge Saraj	< 0.003	< 0.0013	< 0.0001	0.02	0.66	0.008	0.025	0.0	< 0.04	5.2
7	00:00		14576 Sport centar Saraj - Treska	3.0	< 0.0013	< 0.0001	0.03	0.89	0.006	0.007	0.0	124	4.4
£	07:30		14577 Lepenec	< 0.003	< 0.0013	< 0.0001	0.02	16'0	0.007	0.010	0.001	0.455	3.8
4	07:45		14578 CS2 Bridge Lepenec	< 0.003	< 0.0013	< 0.0001	0.03	0.88	0.007	0.012	0.001	0,210	5.3
5	07:15		14579 CS3 Pedestrian crossing Bardovci	< 0.003	< 0.0013	< 0.0001	0.03	0.88	0.008	0.010	0.0	0.603	4.7
9	08:30		14580 Sewage pipe - Bardovci	< 0.003	< 0.0013	< 0.0001	0.04	0.55	0.004	0.011	0.0	0.656	15.2
7	00:90		14581 Bridge Unated Nations	< 0.003	0.003	< 0.0001	0.02	0.01	0.003	0.019	0.0	0.214	4.5
00	08:45		14582 CS4 - Center	< 0.003	0.004	< 0.0001	0.03	0.01	0.002	0.016	0.0	0.229	6.3
6	09:45		14583 Industry outlet Pivara	< 0.003	0.006	0.001	0.04	80'0	0.013	0.009	0.0	1.409	31.3
01	10:00		14584 Industry outlet Makstil	< 0.003	0.004	0.003	0.02	0.01	0.058	0.010	0.0	1.641	16.0
11	09:15		14585 Bridge N.Lisice	< 0.003	0.00	< 0.0001	0.01	0.04	0.004	0.001	0.001	0.520	5.2
12	09:30		14586 Sewage pipe - Aerodrom - N.Lisice	< 0.003	0.005	< 0.0001	0.03	0.02	0.021	0.001	0.002	0.352	28.3
			Location between sewage pipe and										
13	10:15		14587 Industry pipe	< 0.003	0.002	< 0.0001	0.01	0.02	0.004	0.003	0.0	0.850	6.5
14	10:30		14588 Outlet from unlegal settelment Lisice	< 0.003	0.002	< 0.0001	0.01	0.02	0.002	0.003	0.001	1,26	6.1
15	10:45		14589 Pipe under bridge	< 0.003	< 0.0013	< 0.0001	0.02	0.01	0.002	0.003	0.0	0.4	6.1
16	11:00		14590 Open chanel	< 0.003	0.011	< 0.0001	0.01	0.1	0.008	0.004	0.0	0.382	6.1
11	11:30		14591 CS5 Bridge Jurulljari	< 0.003	0.002	< 0.0001	0.01	0.01	0.002	0.004	0.0	0.65	7
18	12:00	Ш	14592 Pump station Dracevo	< 0.003	< 0.0013	< 0.0001	0.05	< 0.3	0.016	< 0.0005	0.001	< 0.04	55.0

No Hour of Laborator Description of location Total number of sampling y Labol Laborator Labolated type of bacteria Labolated type of bacteria Labolated type of bacteria Labolated type of location L	Seri	Series 1:28.11.2007	2002			Microbio	Microbiological parameters
06:30 14224 Stil bridge Saraj 20 000 MPN (500) III class 07:00 14225 Sport centar Saraj -Treska 20 000 MPN (500) III class 07:30 14226 Lepenec 20 000 MPN (500) III class 07:45 14225 CS2 Bridge Lepenec 20 000 MPN (500) III class 07:15 14256 CS3 Pedestrian crossing Bardovci 20 000 MPN (500) III class 06:00 14258 Sewage pipe - Bardovci 240 000 MPN (500) III class 06:00 14259 Bridge Unated Nations 20 000 MPN (500) III class 06:00 14250 Bridge Unated Nations 20 000 MPN (500) III class 06:00 14254 Industry outlet Pivara 240 000 MPN (24000) 10:00 14264 Industry outlet Makstil 240 000 MPN (24000) 10:00 14264 Industry outlet Makstil 240 000 MPN (24000)	No	Hour of	Laborator v Labol		Total number of	Number of	Isolated type of bacteria
06:30 14224 Stil bridge Saraj 20 000 MFN (500) 07:30 14225 Sport centar Saraj -Treska 20 000 MPN (500) 07:30 14226 Lepenec 20 000 MPN (500) 07:45 14225 CS2 Bridge Lepenec 20 000 MPN (500) 07:15 14256 CS3 Pedestrian crossing Bardovci 20 000 MPN (500) 06:30 14258 Sewage pipe - Bardovci 20 000 MPN (500) 06:00 14259 Bridge Unated Nations 20 000 MPN (500) 08:45 14260 CS4 - Center 20 000 MPN (500) 10:00 14254 Industry outlet Pivara 20 000 MPN (500) 10:00 14264 Industry outlet Pivara 20 000 MPN (24000) 10:00 14264 Industry outlet Makstil 24 0 000 MPN (24000) 10:00 14264 Industry outlet Makstil 24 0 000 MPN (24000)			120007			bacteria	
14225 Sport centar Saraj -Treska 20 000 MPN (500) III class III cl		L		Stil bridge Saraj	20 000	MPN (500)	E.coli,
07:30 14225 Sport centar Saraj -Treska 20 000 MPN (500) 07:30 14226 Lepenec 20 000 MPN (500) 07:45 14225 CS2 Bridge Lepenec 20 000 MPN (500) 07:15 14256 CS3 Pedestrian crossing Bardovci 20 000 MPN (500) 08:30 14258 Sewage pipe - Bardovci 20 000 MPN (500) 06:00 14259 Bridge Unated Nations 20 000 MPN (500) 06:00 14259 Bridge Unated Nations 20 000 MPN (500) 09:45 14260 CS4 - Center 20 000 MPN (500) 10:00 14264 Industry outlet Pivara 240 000 MPN (2400) 10:00 14264 Industry outlet Makstil 24 000 MPN (2400) 10:00 14264 Industry outlet Makstil 24 000 MPN (2400)						III class	Enterobacteriacae spp.
07:00 14225 Sport centar Saraj -Treska 20 000 MPN (500) III class 07:31 14226 Lepenec 20 000 MPN (500) III class 07:45 14255 CS2 Bridge Lepenec 20 000 MPN (500) III class 07:15 14256 CS3 Pedestrian crossing Bardovci 20 000 MPN (500) III class 06:00 14259 Bridge Unated Nations 20 000 MPN (500) III class 06:00 14250 Bridge Unated Nations 20 000 MPN (500) III class 06:00 14251 Industry outlet Pivara 20 000 MPN (2400) III class 10:00 14264 Industry outlet Makstil 240 000 MPN (2400) IV class 10:00 14264 Industry outlet Makstil 24 000 MPN (2400) IV class							Enterococcus,
14226 Lepenec 20 000 MPN (500) III class	~				20 000	MPN (500)	E.coli
07:30 14226 Lepenec 20 000 MPN (500) 07:45 14255 CS2 Bridge Lepenec 20 000 MPN (500) 07:15 14256 CS3 Pedestrian crossing Bardovci 20 000 MPN (500) 11 class III class 08:30 14258 Scwage pipe - Bardovci 240 000 MPN (24000) 06:00 14259 Bridge Unated Nations 20 000 MPN (500) 11 class III class III class 09:45 14260 CS4 - Center 20 000 MPN (24000) 10:00 14264 Industry outlet Pivara 240 000 MPN (24000) 10:00 14264 Industry outlet Makstill 240 000 MPN (24000) 10:00 14264 Industry outlet Makstill 240 000 MPN (24000)						III class	Enterococcus
07:45 14255 CS2 Bridge Lepence 20 000 MPN (500) 07:15 14256 CS3 Pedestrian crossing Bardovci 20 000 MPN (500) 08:30 14256 Sewage pipe - Bardovci 240 000 MPN (24000) 06:00 14259 Bridge Unated Nations 20 000 MPN (500) 06:45 14260 CS4 - Center 20 000 MPN (500) 09:45 14261 Industry outlet Pivara 240 000 MPN (24000) 10:00 14256 Industry outlet Makstil 24 000 MPN (24000) 10:00 14264 Industry outlet Makstil 24 000 MPN (24000)	m			Lepenec	20 000	MPN (500)	E.coli,
07:45 14255 CS2 Bridge Lepenec 20 000 MPN (500) 07:15 14256 CS3 Pedestrian crossing Bardovci 20 000 MPN (500) 08:30 14258 Sewage pipe - Bardovci 240 000 MPN (24000) 06:00 14259 Bridge Unated Nations 20 000 MPN (500) 08:45 14260 CS4 - Center 20 000 MPN (500) 10:00 14264 Industry outlet Pivara 240 000 MPN (24000) 10:00 14264 Industry outlet Makstil 24 000 MPN (24000) 10:00 14264 Industry outlet Makstil 24 000 MPN (24000)						III class	Enterobacteriacae spp.,
07:45 14255 CS2 Bridge Lepenec 20 000 MPN (500) 07:15 14256 CS3 Pedestrian crossing Bardovci 20 000 MPN (500) 08:30 14258 Sewage pipe - Bardovci 240 000 MPN (2400) 06:00 14259 Bridge Unated Nations 20 000 MPN (500) 08:45 14260 CS4 - Center 20 000 MPN (500) 10:00 14264 Industry outlet Pivara 240 000 MPN (24000) 10:00 14264 Industry outlet Makstil 24 000 MPN (24000)							Enterococcus,
O7:15 14256 CS3 Pedestrian crossing Bardovci 20 000 MPN (500) III class	4			CS2 Bridge Lepenec	20 000	MPN (500)	E.coli,
07:15 14256 CS3 Pedestrian crossing Bardovci 20 000 MPN (500) 08:30 14258 Sewage pipe - Bardovci 240 000 MPN (24000) 06:00 14259 Bridge Unated Nations 20 000 MPN (500) 08:45 14260 CS4 - Center 20 000 MPN (500) 09:45 14261 Industry outlet Pivara 240 000 MPN (24000) 10:00 14264 Industry outlet Makstil 24 000 MPN (2400) 10:00 14264 Industry outlet Makstil 24 000 MPN (2400)						III class	Enterobacteriacae spp.,
07:15 14256 CS3 Pedestrian crossing Bardovci 20 000 MPN (500) 08:30 14258 Sewage pipe - Bardovci 240 000 MPN (24000) 06:00 14259 Bridge Unated Nations 20 000 MPN (500) 08:45 14260 CS4 - Center 20 000 MPN (500) 10:00 14264 Industry outlet Pivara 240 000 MPN (24000) 10:00 14264 Industry outlet Makstil 240 000 MPN (24000) 10:00 14264 Industry outlet Makstil 24 000 MPN (24000)							Enterococcus,
08:30 14258 Sewage pipe - Bardovci 240 000 MPN (24000) 06:00 14259 Bridge Unated Nations 20 000 MPN (500) 08:45 14260 CS4 - Center 20 000 MPN (500) 09:45 14261 Industry outlet Pivara 240 000 MPN (24000) 10:00 14264 Industry outlet Makstil 24 000 MPN (24000) 10:00 14264 Industry outlet Makstil 24 000 MPN (24000)		L		CS3 Pedestrian crossing Bardovci	20 000	MPN (500)	E.coli,
08:30 14258 Sewage pipe - Bardovci 240 000 MPN (24000) 06:00 14259 Bridge Unated Nations 20 000 MPN (500) 08:45 14260 CS4 - Center 20 000 MPN (500) 09:45 14261 Industry outlet Pivara 240 000 MPN (24000) 10:00 14264 Industry outlet Makstil 240 000 MPN (24000) I 10:00 14264 Industry outlet Makstil 240 000 MPN (24000)						III class	Enterobacteriacae spp.,
08:30 14258 Sewage pipe - Bardovci 240 000 MPN (24000) 06:00 14259 Bridge Unated Nations 20 000 MPN (500) 08:45 14260 CS4 - Center 20 000 MPN (500) 09:45 14261 Industry outlet Pivara 240 000 MPN (24000) 10:00 14264 Industry outlet Makstil 24 000 MPN (24000) In class V class IV class							Enterococcus,
06:00 14259 Bridge Unated Nations V class 08:45 14260 CS4 - Center 20 000 MPN (500) 09:45 14261 Industry outlet Pivara 240 000 MPN (24000) 10:00 14264 Industry outlet Makstil 24 000 MPN (24000) IV class IV class	9			Sewage pipe -	240 000	MPN (24000)	E.coli,
06:00 14259 Bridge Unated Nations 20 000 MPN (500) 08:45 14260 CS4 - Center 20 000 MPN (500) 09:45 14261 Industry outlet Pivara 240 000 MPN (24000) 10:00 14264 Industry outlet Makstil 24 000 MPN (2400) IV class IV class						V class	Enterobacteriacae spp.,
06:00 14259 Bridge Unated Nations 20 000 MPN (500) 08:45 14260 CS4 - Center 20 000 MPN (500) 09:45 14261 Industry outlet Pivara 240 000 MPN (24000) 10:00 14264 Industry outlet Makstil 24 000 MPN (2400) IV class IV class							Enterococcus,
08:45 14260 CS4 - Center 20 000 MPN (500) 09:45 14261 Industry outlet Pivara 240 000 MPN (24000) 10:00 14264 Industry outlet Makstil 24 000 MPN (2400) IV class IV class	_			Bridge Unated Nations	20 000	MPN (500)	E.coli,
08:45 14260 CS4 - Center 20 000 MPN (500) III class III class 09:45 14261 Industry outlet Pivara 240 000 MPN (24000) V class V class 10:00 14264 Industry outlet Makstil 24 000 MPN (2400) IV class IV class						III class	Enterococcus
09:45 14260 CS4 - Center 20 000 MPN (500) III class III class O9:45 14261 Industry outlet Pivara 240 000 MPN (24000) V class I 0:00 14264 Industry outlet Makstil 24 000 MPN (2400) IV class							Citrobacter spp.
09:45 14261 Industry outlet Pivara 240 000 MPN (24000) 10:00 14264 Industry outlet Makstil 24 000 MPN (2400) 10:00 14264 Industry outlet Makstil 24 000 MPN (2400)	80				20 000	MPN (500)	E.coli,
09:45 14261 Industry outlet Pivara 240 000 MPN (24000) V class V class 10:00 14264 Industry outlet Makstil 24 000 MPN (2400) IV class IV class						III class	Enterobacter spp.
09:45 14261 Industry outlet Pivara 240 000 MPN (24000) V class V class 10:00 14264 Industry outlet Makstil 24 000 MPN (2400) IV class							Enterococcus
09:45 14261 Industry outlet Pivara 240 000 MPN (24000) V class V class 10:00 14264 Industry outlet Makstil 24 000 MPN (2400) IV class IV class							Proteus spp.
10:00 14264 Industry outlet Makstil 24 000 MPN (2400) IV class	on			Industry outlet Pivara	240 000		E.coli,
10:00 14264 Industry outlet Makstil 24 000 MPN (2400) IV class						V class	Enterobacteriacae spp.,
10:00 14264 Industry outlet Makstil 24 000 MPN (2400) IV class							Enterococcus,
	10			Industry outlet Makstil	24 000	MPN (2400)	E.coli,
Enterococcus,						IV class	Enterobacteriacae spp.,
							Enterococcus,

14265 Bridge N.Lisice	I.Lisice	20 000		E.coli,
			III class	Enterobacteriacae spp.,
				Enterococcus,
1.	14267 Sewage pipe - Aerodrom - N.Lisice	240 000	MPN (24000) E.coli,	E.coli,
			V class	Enterobacteriacae spp.,
				Enterococcus,
	14268 Location between sewage	200 000	MPN (500)	E.coli,
72	pipe and Industry pipe		III class	Aeromonas
				Enterobacter spp.
				Enterococcus
I/A	14269 Outlet from unlegal settelment Lisice	20 000	MPN (500)	E.coli,
			III class	Enterobacter spp.
				Enterococcus,
				Citrobacter spp.
堙	14270 Pipe under bridge	20 000	MPN (500)	E.coli,
			III class	Enterobacteriacae spp.,
- 1				Enterococcus,
Æ	14271 Open chane1	20 000	MPN (500)	E.coli,
			III class	Enterobacteriacae spp.,
- 1				Enterococcus,
1:2	14272 CSS Bridge Jurulljari	20 000	MPN (500)	E.coli,
			III class	Enterobacteriacae spp.,
				Enterococcus,
				Proteus spp.
23	14273 Pump station Dracevo	240 000	9	E.coli,
			V class	Enterobacteriacae spp.,
				Enterococcus,

MPN was calculated by Schwarop's tables according to Table IV (modified) and Table V (modified) expressed into 100 ml of water sample

Table IV - Method with 5 tubes with 0.1ml water sample, 1 tube with 0,01ml and one

tube with 0,001ml

Table V – Method with 5 tubes with $0.01 \mathrm{ml}$ water sample, 1 tube with $0.001 \mathrm{ml}$ and one tube with $0.0001 \mathrm{ml}$

According to regulation in Republic of Macedonia there are 5 classes of water

	, 61 70 0	2000				1
Serve	Series 2:00.12.2007	7007			Microbic	Microbiological parameters
No		Laborato	Description of location	Total number	Number of	Isolated type of bacteria
	Sampling	ry Lab		of pacteria	coujorm bacteria	
-	06:30		14575 Stil bridge Saraj	20 000	MPN (500)	E.coli
					III class	Enterococcus,
						Proteus spp.
						Citrobacter spp.
7	00:00		14576 Sport centar Saraj -Treska	20 000	MPN (500)	E.coli
					III class	Enterococcus,
						Citrobacter spp.
ന	02:30		14577 Lepenec	20 000	MPN (500)	E.coli
					III class	Serratia,
						Enterococcus
4	07:45		14578 CS2 Bridge Lepenec	20 000	MPN (500)	E.coli,
					III class	Enterobacter spp.
						Enterococcus
						Citrobacter spp.
5	07:15		14579 CS3 Pedestrian crossing Bardovci	20 000	7	E.coli,
					III class	Enterobacter spp.
						Enterococcus
						Citrobacter spp.
9	08:30		14580 Sewage pipe - Bardovci	240 000	MPN (24000)	E.coli
					V class	Scrratia,
						Enterococcus
7	00:90		14581 Bridge Unated Nations	20 000	MPN (500)	E.coli,
					III class	Enterococcus
						Citrobacter spp.
00	08:45	14582 CS4	CS4 - Center	20 000	MPN (500)	E.coli,
					III class	Enterobacter spp.
						Enterococcus
						Citrobacter spp.
6	09:45		14583 Industry outlet Pivara	240 000	MPN (24000)	E.coli,
					V class	Proteus spp.
						Enterococcus
						Citrobacter spp.
0	10:00		14584 Industry outlet Makstil	24 000	MPN (2400)	E.coli,
			_		IV class	Enterobacter spp.
				,		

10 09:15 14585 Bridge N.L.Lisice 20 000 MFN (500) E.coli, E.							Enterococcus
10:30 14586 Sewage pipe - Aerodrom - N.Lisice 240 000 MFN (24000) V class V class MFN (500) III class MFN (500) MFN (500) III class MFN (500) MFN	11	09:15	14585	Bridge N.Lisice	20 000		E.coli,
10:15 14586 Sewage pipe - Aerodrom - N.Lisice 240 000 MPN (24000) V class 10:15 14587 Industry pipe 20 000 MFN (500) III class 10:45 14589 Pipe under bridge 20 000 MPN (500) III class 11:00 14590 Open chanel 20 000 MPN (500) III class 11:30 14591 CS5 Bridge Jurulijari 20 000 MPN (500) III class III class 11:00 14592 Pump station Dracevo 240 000 MPN (24000) V class V cla						III class	Enterobacter spp.
10:15 14586 Sewage pipe - Aerodrom - N.Lisice 240 000 MPN (24000) 10:15 14587 Industry pipe 20 000 MPN (500) 10:30 14588 Outlet from unlegal settelment Lisice 20 000 MPN (500) 10:45 14589 Pipe under bridge 20 000 MPN (500) 11:00 14590 Open chanel 20 000 MPN (500) 11:30 14591 CSS Bridge Jurulijari 20 000 MPN (500) 11:30 14592 Pump station Dracevo 240 000 MPN (24000) V class V class							Enterococcus
09;30 14586 Sewage pipe - Acrodrom - N.Lisice 240 000 MFN (24000) 10:15 14587 Industry pipe 20 000 MFN (500) 10:30 14588 Outlet from unlegal settelment Lisice 20 000 MPN (500) 10:45 14589 Pipe under bridge 20 000 MFN (500) 11:00 14590 Open chanel 20 000 MFN (500) 11:30 14591 CS5 Bridge Jurulljari 20 000 MFN (500) 11:30 14592 Pump station Dracevo 240 000 MPN (24000) 12:00 14592 Pump station Dracevo 240 000 MFN (24000)							Proteus spp.
10:15 14587 Industry pipe 20 000 MPN (500) III class	12	06:30	14586		240 000	MPN (24000)	Proteus spp.
10:15 14587 Industry pipe 20 000 MFN (500) III class						V class	Pseudomonas spp.
10:15 14587 Industry pipe 20 000 MPN (500) III class III:00 14589 Pipe under bridge 20 000 MPN (500) III class III:00 14590 Open chanel 20 000 MPN (500) III class III:30 14591 CS5 Bridge Jurulljari 20 000 MPN (500) III class III:30 14592 Pump station Dracevo 240 000 MPN (24000) V class V class							Enterobacter spp.
10:15 14587 Industry pipe 20 000 MPN (500) III class							Enterococcus
10:30 14588 Outlet from unlegal settelment Lisice 20 000 MPN (500) III class 10:45 14589 Pipe under bridge 20 000 MPN (500) III class 11:00 14590 Open chanel 20 000 MPN (500) III class 11:30 14591 CSS Bridge Jurulljari 20 000 MPN (500) III class III	13	10:15	14587	Industry pipe	20 000		E.coli,
10:30 14588 Outlet from unlegal settelment Lisice 20 000 MPN (500) III class 14589 Pipe under bridge 20 000 MPN (500) III class 11:30 14591 CS5 Bridge Jurulljari 20 000 MPN (500) III class I						III class	Aeromonas,
10:30 14588 Outlet from unlegal settelment Lisice 20 000 MPN (500) 10:45 14589 Pipe under bridge 20 000 MPN (500) 11:00 14590 Open chanel 20 000 MPN (500) 11:30 14591 CS5 Bridge Jurulljari 20 000 MPN (500) 11:30 14592 Pump station Dracevo 240 000 MPN (24000) V class							Enterobacter spp.
10:30 14588 Outlet from unlegal settelment Lisice 20 000 MPN (500) III class III:00 14590 Open chanel III:30 I4591 CS5 Bridge Jurulljari CS5 Bridge Jurulljari CS9 Open Chanel III class III							Enterococcus
10:45 14589 Pipe under bridge III class III	14	10:30	14588	Outlet from unlegal settelment Lisice	20 000		E.coli,
10:45 14589 Pipe under bridge 20 000 MPN (500) III class						III class	Enterobacter spp.
10:45 14589 Pipe under bridge 20 000 MPN (500) 11:00 14590 Open chanel 20 000 MPN (500) 11:30 14591 CS5 Bridge Jurulljari 20 000 MPN (500) 11:30 14592 Pump station Dracevo 240 000 MPN (24000) V class							Enterococcus
10:45 14589 Pipe under bridge 20 000 MPN (500) 11:00 14590 Open chanel 20 000 MPN (500) 11:30 14591 CS5 Bridge Jurulljari 20 000 MPN (500) 12:00 14592 Pump station Dracevo 240 000 MPN (24000) V class V class							Citrobacter spp.
11:00 14590 Open chanel 20 000 MPN (500) III class III	15	10:45	14589	Pipe under bridge	20 000	MPN (500)	E.cofi,
11:00 14590 Open chanel 20 000 MPN (500) 11:30 14591 CS5 Bridge Jurulljari 20 000 MPN (500) 12:00 14592 Pump station Dracevo 240 000 MPN (24000) V class						III class	Enterobacteriacae spp.,
11:00 14590 Open chanel 20 000 MPN (500) III class I							Enterococcus,
11:30 14591 CS5 Bridge Jurulljari	16	11:00		Open chanel	20 000		E.coli,
11:30 14591 CS5 Bridge Jurulljari 20 000 MPN (500) III class III class 12:00 14592 Pump station Dracevo 240 000 MPN (24000) V class						III class	Enterobacteriacae spp.,
11:30 14591 CS5 Bridge Jurulljari 20 000 MPN (500) III class III class 12:00 14592 Pump station Dracevo 240 000 MPN (24000) V class							Enterococcus,
12:00 14592 Pump station Dracevo 240 000 MPN (24000) V class	17	11:30	14591	CS5 Bridge Jurulljari	20 000		E.coli,
12:00 14592 Pump station Dracevo 240 000 MPN (24000) V class						III class	Enterobacteriacae spp.,
12:00 14592 Pump station Dracevo 240 000 MPN (24000) V class							Enterococcus,
	18	12:00	14592		240 000	MPN (24000)	E.coli
Citrobacter spp. Proteus spp.						V class	Enterococcus
Proteins sun.							Citrobacter spp.
							Proteus spp.

MPN was calculated by Schwarop's tables according to Table IV (modified) and Table V

(modified) expressed into 100 ml of water sample

Table IV – Method with 5 tubes with 0.1ml water sample, 1 tube with 0,01ml and one tube with 0,001ml

Table $V-Method\ with\ 5$ tubes with $0.01ml\ water\ sample,\ 1$ tube with $0.001ml\ and\ one$ tube with 0.0001ml

According to regulation in Republic of Macedonia there are 5 classes of water

9



ИНСТИТУТ ЗА АКРЕДИТАЦИЈА

РЕПУБЛИКА МАКЕДОНИЈА 1000 Скопје, ул. Васил Главинов 66, блок X, мезанин

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до: ЗАВОД ЗА ВОДОСТОПАНСТВО НА РМ-СКОПЈЕ

ПРЕДМЕТ: Одговор на Ваше барање со број 03-233

Почитувани,

За тестирање на отпадни води во Република Македонија, Републички завод за здраствена заштита има акредитирано една метода за тестирање на отпадни води и тоа "Квалитет на вода-Определување на растворени Li^+ , Na^+ , NH_4^+ , K^- , Mn^{2+} , Ca^{2+} , Mg^{-2+} , Sr^{2+} i Ba^{-2+} со јонска хроматографија".

Друга лабораторија за тестирање на отпадни води засега не е акредитирана.

Со почит,

ASSEST OF THE COLUMN ASSESSED OF THE PARTIES. CROHLE 28.11.2007 244 03

