### TABLES

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Municipality Name	Organization Name	Laboratory	Purpose	Ranking
Ploicsti	Romanian Waters	Head Office Labo.	river water/wastewater analysis	В
		Maneciu Labo.	water supply purification plant operation	с
		Valenii de Munte Labo.	water supply purification plant operation	В
		Paltinu Labo.	water supply purification plant operation	В
Cimpina	R.A.G.C.P. Cimpina	Drinking Water Labo.	water supply purification plant operation	с
		Sewerage Labo.	sewage treatment plant	с
Ploiesti	R.A.G.C.P. Ploiesti	Drinking Water Labo.	water supply purification plant operation	с
		Sewerage Labo.	sewage treatment plant operation	с
Azuga	A.D.P.P. Azuga	No Laboratory	-	-
Baicoi	S.G.C.L. Baicoi	No Laboratory	-	-
Boldesti Scaieni	S.G.C.L. Boldesti	Drinking Water Labo.	water supply purification plant operation	С
	<u> </u>	Sewerage Labo.	sewage treatment plant operation	С
Breaza	CIVITAS Breaza	Drinking Water Labo.	water supply purification plant operation	С
		Sewerage Labo.	sewage treatment plant operation	С
Busteni	A.D.P.P. Busteni	No Laboratory	-	
Cormanic	A.D.P.P. Cormanic	No Laboratory	-	-
Plopeni	S.G.C.L. Plopeni	No Laboratory	-	-
Sinaia	A.D.P.P. Sinaia	Drinking Water Labo.	water supply purification plant operation	В
		Sewerage Labo.	sewage treatment plant operation	С
Slanic	GOSCOM Slanic	No Laboratory	-	-
Urlati	R.A.G.C.L. Urlati	Sewerage Labo.	sewage treatment plant operation	С
Valenii de Munte	R.A.G.C.L. Valeni	No Laboratory	<u>-</u>	-
Maneciu	N.M.S. Maneciu*	No Laboratory	-	
	N.M.S. Cheia*	No Laboratory	-	-
Predeal	APEVITA Predeal	Drinking Water Labo.	water supply purification plant operation	В
		Sewerage Labo.	sewage treatment plant operation	С
Bucharest	ICIM, MWFEP		river water/wastewater analysis	A
Cimpina	ICPT, PETROM R.A.		river water/wastewater analysis	A

### Table 3.1 Existing Laboratory in the Prahova River Basin

Note: N.M.S. : Nerga Maneciu Sector

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Model	Code	Name of Establishment	Municipality	Activity	Acuvity	BAD BAD	3
Block							
56] 26]	4008	A.D.P.P. AZUGA	Azuga	41A1	Water Supply (Unnung)	ITTANOVA	7705
195	4004 2004	SINTERREF AZUGA	Azuga	8	Non-Metallic Mineral Products	vzuga	ç j
195	4006	BERE AZUGA	Azuga	2	Food/Beverage	eguzy	014
i i	4007		Azuga	11	Textiles	Azuga	465
2			A71103	ŝ	Fish Farming (Clean water)	Azuza	7540
2				ž	Non Matallic Minaral Droducts	Prohous	110
195	4009 6009	-	Azuga	81			
195	4014	HARTIA BUSTENI	Busteni	7	Paper/Paper Products	Tanova	
195	4317	APEVITA PREDEAL	Predeal	41A3	Water Supply (Industory/Dring)ang)	Azuga	8/1
					Sub-total		17595
ľ			Cinaia	1717	Water Sunniv (Drinking)	Prahova	1382
<	\$10	ALUTTONAIA				Distant	A LA
4	402J	MEAN SINAIA	Sidala	Ş	waanmay, aduibiicaa	L14UVV4	
		-			Sub-total		1 (01
	70.UT	ADPP COMARNIC	Comarnic	4IAI	Water Supply (Drinking)	Pranova	316
2	2004		Comarnic	14	Minine/Ouarryine	Prahova	<u>%</u>
3			omanic	×	Non-Merallic Mineral Products	Prahova	47
Ŗ	4410			2			000
					500-1004		547 5
Daml	Ê	PRIMARIA VALEA DOFIANEI	Valea Doftanei	41A1	Water Supply (Drinking)	Dottana	<del>1</del>
F	9.07	A R.R.A. FILIALA PLOIESTIS, H. PALTINU	Cimpina	4141	Water Supply (Drinking)	Dottana	68424 Voila Intake
			Cimoina	21 A 3	Water Supply (Industory/dring/ding)	Doltana	8675
، ر	5			5	Detrolation Definition	Doftana	218
<u>о</u>	505	S.C.S.LAUA KOMANA SA		ìż	Fertonen Neurory	Defrate	5
υ	4341	ASOCIATIA VINATORILOR SI PESCARILOR SPORTIVI CLMP PIORSID	FIOICSID	ŝ	FIND FAILURY		
υ	4551	SOCIETATEA COMERCIALA APASCO S.A.MANECIU	Maneciu	<b>4</b> 2	Construction	Dottana	
					Sub-total		8974
111	1707	S.C. PETROUTH AJS.A	Cimpina	67	Machinery/Equipment	Prahova	189
		S O EVELOATADE LINDADI MARINATATRI FINCIARE S		0143.4	Irrigation (Crons)	Pranova	1121
1				017B	1 ivertock Farm (cmall)	Prahova	102
717	0 74					Deshours	16861 Vedelen Intake
217	555	A.R.R.A. FILIALA PLOIESTI S.H. NEDELEA	I Kanuvani	7414		LIAUUVA	242
217	4235	SCHELA DE PRODUCTIE PETROLIERA MORENI	Morem	1	Crode Oil Extraction	PTADOVA -	
					Sub-total	• :	C1/81
ы	4273	COPIMEX BRAZI	Brazi	01218	Livestock Farm (small)	Prahova	- 1
	244	A D D A FILLET A PLATER FILL MANECHI			Water Supply (Drinking)	Lelcaren	1102
<b>,</b> -	1000		(Manchu Unamen	4141	Water Supply (Drinking)	Telearen	58
-, ,	000				Wood	Televien	:9
-	4089	S.E.F.F.L. MANECIU	Manoria (Manoria Ongaren	3			20167 Malanti de Munara Tanahan
5	4212	A.R.R.A. FILIALA PLOIESTI S.H. VALENI	Valenu de Munte	41A1	water supply (unnung)	T creatern	JOLD V AUGUL UC VINILIC JUNANC
					Sub-total		16565
077 770	4506	R.A.G.C.L. VALENI		4IAI	Water Supply (Druking)	letajen	
220	4095	STICLOVAL VALENI	Valenii de Munte	14	Munng/Quartying	l c(ca)cn	
					Sub-total		1017
×		GOSCOM SLANIC		41A1	Water Supply (Druking)	Varbilau	352
×	4206	S.C.P.P. MAGURELE	Magurele (	0143C	Irrigation (Wine)	Varbilau	248
					Sub-total		600
ŀ	6071	PREFABRICATE BLEJOI	Biejoi	<del>1</del>	Construction I dealen	Teleajen	44
T	4326	DELTA DESIGN S.A. COMPLEX DE AGREMENT DACIA	Bucov	8	Recreational/Cultural/Sporting Activity	Creicajen	11
l	2117	S C ROMFOSFOCHIM SA	Valea Calugarcasca	ষ	Chemicals/Chemical Products	Teleajen	1694 Pantazi Intake
\$					Sub-total		1749
þ		VIDELMAR SEDIU	Albesti-Paleologu	۴	Food/Beverage	Cncovul Sarat	80
0	4287	POMICOLA MEHEDINTA	Podenii Noi			Cricovul Sarat	176
					Sub-total		256
					Total		8+66CI

Table 3.2 Surface Water Intake Volume

City/Town		Population			Household		Main :	Main Sewer Networks	5	Recer	Receiving Indust. Wastewater	Wastewater	Treatm	Treatment Plant
·	Total	Served	(%)	Lotal	Served	(%)	Type	Diameter	Length	No.	Discharge	Pre-	Process	Capacity
								(ww)	(cm)	_	(I/S)	Treatment		(S2)
Predeal	6,940	5,890	84.9		1.10	80.4	80.4 Separate	300-500	5.0	ō	0:00	поле	M+B	3
Azuga	6,260	5.320	85.0	1,700	1.600	94.1	94.1 Combined	300-500	7.6	Ē	0.51	with	pope	none
Busteni	12.050	7,240	60.1	2,850	2,200	77.2	77.2 Combined	100-1,000	17.0	-1	3.68	with	none	none
Sinaia	15,060	12,000	1.61	4,300	3,430	79.8	79.8 Combined	150-400	37.2	9	34.85	5 with	M+B	100
Comarnic	13,580	0	0.0	6.000	0 ·	0.0								
Breaza	19,040	000'6	47.3	6,300	3,000	47.6	47.6 Combined	500	40	2	19.41	1 with	M+B	76
Cimpina	40,900	26,250	64.2	14,690	10,500	71.5	71.5 Separate	150-800	40.0	15	71.18	14 with	X+B	150
Baicoi	20,290	4,830	23.8	6,360	1.210	0.61	19.0 Separate	250-400	10.01	9	12.49	all with	M+B	26
Plopeni	10,320	8,100	78.5	5.300	4,750	89.6	89.6 Separate	300-500	13.9		47.88	with	×	6
Slanic	086.7	2,400	32.5	2,500	800	32.0	32.0 Separate	300	4.0	0	00.0	none	M+B	27
Valenii	14,010	061'8	22.8	3,740	1,100	29.4	29.4 Separate	500	8.3	1	0.64	all with	M+B	106
Boldesti	11,580	3,660	31.6	2,750	1,070	38.9	38.9 Combined	200-500	10.51	4	10.171	2 with	M+B	Ģ
Urlati	11,890	5,000	42.1	3.500	1,700	48.6	48.6 Combined	250-600	0.4	1	2.54	all with	M+B	32
Ploiesti	253.410	220,000	86.8	101,000	88,000	87.1	87.1 Combined	200-3000	276.3	40	168.48	35 with	×	1.200
Sub-total	442,710	312,880	70.7	162,370	120,470	74.2			440.8	08	371.83	70 with		2 046
Floresti*	7,630	6,100	6.64	 		-				-				
Maneciu*	11,450	2,860	25.0			ľ								
Other Com.*	293,210	0	0.0			ſ				-				
Sub-total	312,290	8,960	2.5			ŀ								
Total	255,000	321,840	42.6	   .		<u>†</u>					-			
Note: (1) Receiving Indust. Wastewater: Receiving wastewater of major industrial establishments	ing ladust. V	/astcwater:	Receivu	ng wastewat	er of major	ndustr	tal establishme	ents	1				-	

Table 3.3 Inventory of Existing Sewerage System of Cities/Towns

ater of indior industrial establishments Keceiving ladust, wastewater: keceiving wastewater of inajor inquisina (2) No.: Number of establishments
 Discharge: Average discharge to sewer
 Discharge: Average discharge to sewer
 Treatment Plant Capacity: original design capacity but not actual one.
 M : mechanical treatment, B : biological treatment

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Parameter	1 6000	0.0%)	<u>(s)</u>	BOD	BOD (mø/l)	SS (m£/l)		Oil Products (mg/l)	(I/gm)	Calcu	Calculated Pollution	по	Treatment
National Standards	} z	ž V		2	20	60		1.0			Load (kg/d)		
Municipality	- -	Permitted	Actual	Permitted	Actual	Permitted Actual	1-	Permitted	Actual	BOD	SS	Oil	
Predeal	1 4317	╨	49.28		(7.6.7)	74.2(66.3	63)		3.12(5.30)	B I	315.9	13.3	W/T
AZUSA	4008		31.42	13	144.0*	25	187		7.93	390.9	507.6	21.5	T/O/T
Busteni	4011		25.18		143.0+		187.0*	 	7.93*		406.8	17.3	WO/T
Sinata	4018		60.57	20		4	118.8		3.05	207.2	621.7	16.0	WЛ
Comartic	4026			100		C							S/C/M
Breaza	4028	48.07	30.16	20	66.5(9.9)	60 80.4(91.5)	(5.1	1 4	14.51(2.80)	173.3	209.5	37.8	WЛ
Cambina	4034	144	234.68	40	28.2	20	131.8	Ś	7.56	571.8	2,672.4	153.3	ТW
Baicoi	40 <del>1</del>		50,48	20	1	50	97.3	6	1.9	274.8	424.4	8.3	WЛ
Ploneni	4578		77.44	20	36.6	60	208	0	2.93	244.9	1,391.7	19.6	W/Т
Slanic	4127		6.6		16.4	33	84.4	0.1	1.93	9.4	48.1	1.1	wл
Valenti de Munte	4506		30.25			60	149.2	 	3.47	57.0	389.9	9.1	WЛ
Boldesti Scaeni	4022	34.15	21.88	33		55	101.5	7	3.19	63.5	191.9	6.0	W/T
Urlan	4374	32	21.82	12	23.4	09	52	4	5.23	44.1	98.0	6.6	W/T
Ploiesti	4162	16	1.522.42	100	49.3	150	125.7	8	12.07	6,484.8	16,534.2	1.587.7	W/T
Floresti**	4301		18.17	20	33.1*		97.3*		4.46*	52.0	152.8	7.0	٣'n
Maneciu**	4088		10.72	5	33.1		97.3	1	4.46	30.7	1.06	4.1	ŴЛ
Total		2503.53	2,191.07							8,999.4	24,055.0	1.912.0	
Note: (1) - Demotrad Amarthi and Amality are the latest av		t out are when the		TOGE CRAS									

Table 3.4 Average Sewerage Effluent Quantity, Quality and Pollution Load during 1995-1997

Note: (1): Permitted quantity and quality are the latest average ones.

(2) : Actual quantity and quality (without parentheses) are average during 1995-1997.

(3) : Actual quality (with parentheses) of Predeal and Breaza are those after completion of new plant (Predeal: after Oct. 1997, Breaza: after Nov. 1997).

(4): National Standards : National new standards were published in Nov. in 1997. However, the existing permission will be effective for the time-being until the license expires.

(5) : \* : JICA estimate

1) ; For BOD of Azuga and Bustem, the estimated sewerage influent quality in Appendix D. Table D.2.4 is applied since they have no treatment plant.

2) ; SS and Oil of Busteni are assumed to be the same as those of Azuga

3) ; BOD, SS and Oil of Floresti are assumed to be the same as those of Mancciu.

(6) : W/T: with treatment, WO/T: without treatment, WO/S: without sewerage system

(7) : \*\* : commune

Data Source: Romanian Waters

Municipality	Aajor Industry	idustry -	Gross D(	oss Domestic	Groundwater	water	Total	Influent BOD	BOD	Effluent BOD	BOD	[reatment
	Discharge	BOD	Discharge	80D	Discharge	BOD	Discharge	Content (mad)	Load (re/d)	Content (mo/l)	Load (re/d)	
Predeal	0	(1/3111)	(en)	200		0	25.9	147	330	9.7	22	W/T
Azuga	0.5	6.3		200		0	23.9	144	297	144.0	297	WO/T
Busteni	3.7	100	23.5	200	8 4	0	35.5	143	438	143.0	439	WO/T
Sinaia	34.9	105.1	38.9	200	13.9		87.7	131	686	39.61	300	L/W
Comarnic	1	1	•	•	T		•	7		•	ī	S/O/
Breaza	19.4	49	29.2	200	10.4	0	59.0	115	587	6.6	50	W/T
Cimpina	71.2	125.9		200	30.4		214	147	2,717	28.2	521	ТW
Baicoi	12.5	40.9	15.7	200		0	33.7	108	315	63.0	183	W/T
Plopeni	47.9	20.3	26.3	200		0	83.5	75	538	36.6	564	W/T
Slanic	0		7.8	200		0	10.6	147	135	16.4	15	W/T
Valenii de Munte	0.6	52.1	10.3	200		0	14.6	143	181	21.8	27	W/T
Boldesti Scaieni	10.2	51.3	11.9	200	4.2	0	26.3	110	251	33.6	76	WT
Urlati	2.5	231.2	16.2	200	5.8	0	24.5	156	330	23.4	50	W/Τ
Ploiesti	168.5	85.5	942.1	200	407.4	0	1.518.0	134	17,524	49.3	6,466	W/T
Floresti*	4.8	13.9	12.7	200	7.1	0	24.6	106	225	33.1	20	WT
Maneciu*	0		6.0	200	3.31	0	9.3	129	104	33.1	27	ЪМ
l'otal	376.7		1,289.3		525.41		2,191.10		24,961		8,808	

Quality
:nt/Effluent
nd Influe
<b>Discharge</b> a
Sewerage I
<b>Baseline</b>
Existing
Table 3.5

Municipality	,	i vije de professof i Janie an.	Receivi	ng Body			T.	
	Ri	ver	Domestic	Sewer S.	Industria	I Sewer.S		tal
		BOD load		BOD load	Discharge	BOD load	Discharge	BOD load
	(l/s)	(kg/d)	(Vs)	(kg/d)	(l∕s)	(kg/d)	(l/s)	(kg/d)
ALBESH		-	2.5	50	0.0	-	2.5	50
<b>ARICESTIL RAHTIVAN</b>	8.1	723	0.0	-	0.0	-	8.1	723
AZUGA	32.2	109	0.5	0	0.0	-	32.7	109
BAICOI	-	-	12.5	44	0.0	-	12.5	44
BARCANESTI	1.3	1	0.6	2	0.0	-	1.9	3
BERCENI	244.2	2,021	0.0	-	40.6	505	284.8	2,526
BLEJOI	3.2	149	0.0	•	0.0	•	3.2	149
BOLDESTI-SCAIENI	19.1	56	10.2	45	0.0	•	29.3	101
BRAZI	283.5	537	0.0	•	0.0	-	283.5	537
BREAZA	0.7	6	19.4	82	0.0	•	20.1	88
BUCOY	20.2	23	0.0	-	0.0	-	20.2	23
BUSTENI	117.5	125	3.7	32	0.0	•	121.1	157
CERASU	1.0	64	0.0		0.0		1.0	64
CIMPINA	100.2	537	71.2	774	0.0		171.4	1,311
CIORANI	0.3	2	0.0		0.0	-	0.3	2
COMARNIC	2.6	12	0.0	-	0.0	•	2.6	12
DRAJNA	0.3	4	0.0	-	0.0	-	0.3	4
FILIPESTI DE TARG	0.4	5	0.0	•	0.0	-	0.4	5
FLORESTI	146.8	155	4.8	6	0.0	-	151.6	161
GURA VITIOAREI	0.2	0	0.0	-	0.0		0.2	0
MAGURELE	9.8	26	0.0	-	0.0		9.8	26
MANECIU	1.5	17	0.0	-	0.0	-	1.5	17
PAULESTI	1.0	1	10.8	5	0.0	-	11.7	5
PLOIESTI	783.1	5,451	157.1	1,244	136.8	1,652	1,077.0	8,347
PLOPENI	4.6	7	47.9	84	0.0	•	52.5	91
SCORTENI	2.0	5	0.0	-	0.0	-	2.0	5
SINAIA	1.9	16	34.8	316	0.0	-	36.7	333
SLANIC	0.5	0	0.0	-	0.0	•	0.5	0
TARGSORUL VECHI	2.7	2	0.0	-	0.0	-	2.7	2
VALEA CALUG.	54.8	282	0.0		0.0		54.8	282
VALENII DE MUNTE	4.1	7	0.6		0.0	-	4.7	10
Total	1,847.7	10,342	376.6	2,688	177.4	2,157	2,401.7	15,187

Table 3.6 Existing Industrial Wastewater Discharge and BOD Load by Municipality

River         Domestic Sever S.         Industrial Sever S.           Discretion         Discr	epe Co	Industrial Category				ĸ	Receiving Body	V V					Total	
Discharge Ave BOD BOD load Discharge Ave BOD BO				River		Do	mostic Sewer	s.	pul	lustrial Sewe	r.S			
writes         13.0         986.3         1.104         -			1 .	BOD	BOD load (kg/d)	Discharge (1/s)	Ave. BOD (mg/l)	BOD load (kg/d)	Discharge (1/s)	Ave. BOD (mg/l)	BOD load (kg/d)	Discharge (1/s)	Ave. BOD BOD load (mg/l) (kg/d)	BOD load (kg/d)
writes         1.7         10.0         2         - <t< td=""><td><math>\dot{c}_{10}</math></td><td>Livestock Farm</td><td>13.0</td><td>986.3</td><td>1.104</td><td></td><td></td><td></td><td>•</td><td>•</td><td>•</td><td>13.0</td><td>986.3</td><td>1,104</td></t<>	$\dot{c}_{10}$	Livestock Farm	13.0	986.3	1.104				•	•	•	13.0	986.3	1,104
·         ·	04	Avriculural Activities	17	0.01	5	•	•				•	1.7	10.0	7
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Crude Oil Extraction			•	5.6	100.0	49	•	1	•	5.6	100.0	<del>6</del> 9
28.8         31.8         79         28.6         463.8 $1,147$ -         - $7.7$ $106.1$ $52$ $51.3$ $51.1$ $23$ $  7.7$ $106.1$ $52$ $53$ $31.7$ $14$ $  129.6$ $13.9$ $155$ $     77.4$ $57.0$ $282$ $13.3$ $10.6$ $   9.8$ $5.70$ $282$ $15.3$ $80.0$ $10.6$ $  9.7$ $5.70$ $282$ $15.3$ $80.0$ $10.6$ $  9.8$ $3.7$ $2$ $1.1$ $6.5$ $11.1$ $140.9$ $   9.8$ $3.7$ $283$ $0.4$ $11.1$ $12.9$ $0.6$ $   11.1$ $12.9$ $12.5$ $10.4$ $2.5$ $3.14.0$	4	Mining/Quarrying	1.7	10.7	2	0.5	40.0	2	•	•	•	2.2	17.6	6
11.2         54.1         52         51.8         5.1         23 $  -$ </td <td>12</td> <td>Food/Beverage</td> <td>28.8</td> <td>31.8</td> <td><u>79</u></td> <td>28.6</td> <td>463.8</td> <td>1.147</td> <td>•</td> <td>1</td> <td>•</td> <td>57.5</td> <td>247.0</td> <td>1,226</td>	12	Food/Beverage	28.8	31.8	<u>79</u>	28.6	463.8	1.147	•	1	•	57.5	247.0	1,226
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		' Textile	11.2	54.1	52	51.8	5.1	23	•	,	1	63.0	13.6	75
$5.7$ $106.1$ $5.2$ $5.3$ $31.7$ $14$ $\cdot$ $\cdot$ $129.6$ $13.9$ $155$ $   -$ <td>l≍</td> <td>Tanning/Dressing Leather</td> <td>•</td> <td>•</td> <td></td> <td>1.7</td> <td>62.8</td> <td>6</td> <td>•</td> <td>•</td> <td>1</td> <td>1.7</td> <td>62.8</td> <td>6</td>	l≍	Tanning/Dressing Leather	•	•		1.7	62.8	6	•	•	1	1.7	62.8	6
1296         139         155         -	30	bood (	5.7	106.1		5.3	31.7	14	•	ł	•	11.0	70.3	67
1.205.0 $75.6$ $7.872$ $11.8$ $4.6$ $5$ $164.1$ $149.6$ $57.0$ $582$ $15.3$ $80.0$ $106$ -         -         - $9.8$ $3.7$ $3$ $2.6$ $6.5$ $1$ -         -         - $6.0$ $6.7$ $4$ $1.1$ $6.3$ $1$ -         -         - $11.1$ $12.9$ $12$ $0.4$ $12.5$ $0.0$ $2.7$ $39.1$ $3.8$ $5.0$ $2$ $31.3$ $43.7$ $118$ $9.7$ $39.1$ $11.1$ $12.9$ $6.5$ $972.0$ $243.3$ $283.3$ $0.9$ $22.0$ $17.4$ $26.6$ $40$ $8.9$ $8.9$ $7$ $1.1$ $10.5$ $17.4$ $26.6$ $40.8$ $8.9$ $7$ $1.1$ $10.5$ $11.7$ $26.6$ $55.3$ $23.3$ $28.9$ $0.22.0$ $27.0$ $27.0$ </td <td>6</td> <td>Paper/Paper Products</td> <td>129.6</td> <td>13.9</td> <td></td> <td>•</td> <td>•</td> <td></td> <td>•</td> <td>•</td> <td>,</td> <td>129.6</td> <td></td> <td>155</td>	6	Paper/Paper Products	129.6	13.9		•	•		•	•	,	129.6		155
574 $57.0$ $282$ $15.3$ $80.0$ $106$ $  9.8$ $3.7$ $3$ $2.6$ $6.5$ $1$ $   11.1$ $129$ $12$ $0.4$ $1.1$ $6.3$ $1$ $   3.8$ $5.0$ $2$ $31.3$ $43.7$ $118$ $9.7$ $39.1$ $3.8$ $5.0$ $2$ $31.3$ $43.7$ $118$ $9.7$ $39.1$ $3.8$ $5.0$ $2$ $31.3$ $43.7$ $118$ $9.7$ $39.1$ $40.5$ $2716$ $75$ $140.9$ $23.3$ $23.3$ $0.9$ $22.0$ $1.5$ $972.7$ $129$ $6.5$ $972.0$ $546$ $   2.78.6$ $15.9$ $383$ $       17.4$ $26.6$ $40$ $8.9$ $8.9$ $7$ $11.1$ $10.5$ $  2.78.15$ $15.9$ $383$ $        2.78.15$ $15.9$ $38.3$ $              2.78.1$ $100.0$ $21.3$ $49.9$ $9.9$ $7$ $11.1$ $10.5$ $                   -$		Petroleum Refinery	1,205.0	75.6		11.8	4.6	5	164.1	149.6	2,121	1,380.8		166,6
9.8 $3.7$ $3$ $2.6$ $6.5$ $1.1$ $6.3$ $1$ $   -$ <	Ă	I Chemical/Chemical Products	57.4	57.0		15.3	80.0	106		•	•	72.7	61.8	388
60 $67$ 4         1.1 $6.3$ 1         -         -         - $11.1$ $12.9$ $12$ $0.4$ $12.5$ $0.4$ $12.5$ $0$ -         -         - $3.8$ $5.0$ $2$ $31.3$ $43.7$ $118$ $9.7$ $39.1$ $3.8$ $5.0$ $2$ $31.3$ $43.7$ $118$ $9.7$ $39.1$ $40.5$ $278.6$ $15.9$ $383$ $ 3.2$ $14.0$ $4$ $  278.6$ $15.9$ $383$ $ 3.2$ $14.0$ $4$ $                                   -$	<sup>لم</sup>	Rubber/Plastics Products	9.8	3.7		2.6	6.5	1	4	•	•	12.4	4.3	\$
$11.1$ $12.9$ $12$ $0.4$ $12.5$ $0$ $\cdot$ $\cdot$ $3.8$ $5.0$ $2$ $31.3$ $43.7$ $118$ $9.7$ $39.1$ $40.5$ $21.6$ $75$ $140.9$ $23.3$ $283$ $0.9$ $22.0$ $1.5$ $972.7$ $129$ $6.5$ $972.0$ $546$ $\cdot$ $\cdot$ $   3.2$ $14.0$ $4$ $  278.6$ $15.9$ $383$ $ 3.2$ $14.0$ $4$ $  2778.6$ $15.9$ $383$ $                                  -$ <td>ដ</td> <td>S Non-metallic Mineral Products</td> <td>6.0</td> <td>6.7</td> <td></td> <td>1.1</td> <td>6.3</td> <td>1</td> <td>5</td> <td>•</td> <td>•</td> <td>1.7</td> <td>6.6</td> <td>ţ</td>	ដ	S Non-metallic Mineral Products	6.0	6.7		1.1	6.3	1	5	•	•	1.7	6.6	ţ
3.8 $5.0$ $2$ $31.3$ $43.7$ $118$ $9.7$ $39.1$ $40.5$ $21.6$ $75$ $140.9$ $23.3$ $283$ $0.9$ $22.0$ $1.5$ $972.7$ $129$ $6.5$ $972.0$ $546$ -         - $278.6$ $15.9$ $383$ - $3.2$ $14.0$ $4$ -         - $2778.6$ $15.9$ $383$ - $3.2$ $14.0$ $4$ -         -         - $2778.6$ $15.9$ $383$ - $3.2$ $14.0$ $4$ -         -	6	7 Basic Metals	1.11	12.9		0.4	12.5	0	•	•	•	11.5	12.9	13
405       21.6       75       140.9       23.3       28.3       0.9       22.0 $1.5$ $972.7$ $129$ $6.5$ $972.0$ $546$ $   278.6$ $15.9$ $383$ $ 3.2$ $14.0$ $4$ $  278.6$ $15.9$ $383$ $ 3.2$ $14.0$ $4$ $  278.6$ $15.9$ $383$ $ 3.2$ $14.0$ $4$ $  2778.6$ $15.9$ $383$ $ 3.2$ $14.0$ $4$ $   274$ $100.0$ $21.3$ $49.9$ $92$ $0.2$ $30.2$ $30.2$ $24$ $100.0$ $193$ $                            -$	ក្រី	Metal Products Fabricated	3.8	5.0	2	31.3	43.7	118	9.7	39.1	33	44.7	39.4	152
1.5 $972.7$ 129 $6.5$ $972.0$ $546$ $\cdot$ $\cdot$ 278.6       15.9       383 $-$ 3.2       14.0       4 $ -$ 278.6       15.9       383 $-$ 3.2       14.0       4 $ -$ 17.4       26.6       40       8.9       8.9       7       1.1       10.5         2.4       100.0       21       3.4       50.0       193 $  -$ 2.4       100.0       21       22.4       100.0       193 $   -$ 2.1       22.4.5       3       21.3       49.9       92       0.2       30.2 $30.2$ $30.2$ $30.2$ $30.2$ $30.2$ $30.2$ $30.2$ $30.2$ $30.2$ $30.2$ $1.6$ $8.0$ $                       -$ <t< td=""><td>53</td><td>Machinery/Equipment</td><td>40.5</td><td>21.6</td><td>75</td><td>140.9</td><td>23.3</td><td>283</td><td>6.0</td><td>22.0</td><td>5</td><td>182.3</td><td>22.9</td><td>360</td></t<>	53	Machinery/Equipment	40.5	21.6	75	140.9	23.3	283	6.0	22.0	5	182.3	22.9	360
$\cdot$ $\cdot$ $ 3.2$ $14.0$ $4$ $  278.6$ $15.9$ $383$ $   -$ </td <td>31</td> <td>Electronical Machinery/Apparatus</td> <td></td> <td>972.7</td> <td>129</td> <td>6.5</td> <td>972.0</td> <td>546</td> <td>•</td> <td>P</td> <td>1</td> <td>8.0</td> <td>972.1</td> <td>675</td>	31	Electronical Machinery/Apparatus		972.7	129	6.5	972.0	546	•	P	1	8.0	972.1	675
278.6       15.9       383       -       <	ľ	S Furniture		,		3.2	14.0	4		•	•	32	14.0	4
17.4 $26.6$ $40$ $8.9$ $8.9$ $7$ $1.1$ $10.5$ -       -       - $3.4$ $50.0$ $15$ -       -       -         2.4 $100.0$ 21 $22.4$ $100.0$ $193$ -       -       -         2.4 $100.0$ 21 $22.4$ $100.0$ $193$ -       -       -         0.2 $224.5$ 3 $21.3$ $49.9$ $92$ $0.2$ $30.2$ $30.2$ 0.1 $6.7$ 0       -       - $3.0$ $8.0$ $21.4$ $1.6$ $8.0$ 13.8 $9.2$ $11$ $3.6$ $99.8$ $31$ -       -       -         0.8 $32.6$ $2$ $11$ $3.6$ $99.8$ $31$ -       -	Ĭ	Electricity/Gas/Water Supply	278.6	15.9	383			•		•	-	278.6	15.9	383
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4	Construction	17.4	26.6	40	8.9	8.9	2	1.1	10.5	1	27.3	20.2	oo ₽
24     100.0     21     22.4     100.0     193     -     -       0.2     224.5     3     21.3     49.9     92     0.2     30.2       -     -     -     3.0     8.0     2     1.6     8.0       0.1     6.7     0     -     -     3.6     99.8     31     -     -       13.8     9.2     11     3.6     99.8     31     -     -     -       0.8     0.8     3.1     60.9     -     -     -     -     -       13.8     9.2     11     3.6     99.8     31     -     -     -       0.8     0.8     3.1     60.3     2.7     49.9     9     -     -       7.6     85.1     56     5.1     60.3     27     -     -     -       1<10.77	51	Wholesale Trade/Commission	•		1	3.4	50.0	15	•	•	1	3.4	50.0	:5
02         224.5         3         21.3         49.9         92         0.2         30.2           -         -         -         3.0         8.0         2         1.6         8.0           0.1         6.7         0         -         -         3.0         8.0         2         1.6         8.0           13.8         9.2         11         3.6         99.8         31         -         -           0.8         32.6         2         2.2         49.9         9         -         -           7.6         85.1         56         5.1         60.3         27         -         -           1 9.27         -         0.2         201.4         4         -         -         -	×	Hotel/Restaurant	2.4	100.0	21	22.4	100.0	193			•	24.8	100.0	214
.     .     .     3.0     8.0     2     1.6     8.0       0.1     6.7     0     -     -     -     -     -     -       13.8     9.2     11     3.6     99.8     31     -     -       0.8     32.6     2     2.2     49.9     9     -     -       7.6     85.1     56     5.1     60.3     27     -     -       1 8.77     -     0.2     201.4     4     -     -	ß	Land Transport	0.2	224.5	3	21.3	49.9	92	0.2	30.2	0	21.6	51.1	95
0.1         6.7         0         - <td>8</td> <td>Transport Activities</td> <td>•</td> <td>•</td> <td></td> <td>3.0</td> <td>8.0</td> <td>2</td> <td>1.6</td> <td>8.0</td> <td>-1</td> <td>4.6</td> <td>8.0</td> <td>3</td>	8	Transport Activities	•	•		3.0	8.0	2	1.6	8.0	-1	4.6	8.0	3
13.8         9.2         11         3.6         99.8         31         -         <	8	l Post/Telecommunication	0.1	6.7	0	•	•	•	•	•	•	0.1	6.7	0
0.8         32.6         2         2.2         49.9         9         - <th< td=""><td>12</td><td>Public Administration/Defence</td><td>13.8</td><td>9.2</td><td>11</td><td>3.6</td><td>8.66</td><td>31</td><td>•</td><td>•</td><td>•</td><td>17.4</td><td>27.8</td><td>:5</td></th<>	12	Public Administration/Defence	13.8	9.2	11	3.6	8.66	31	•	•	•	17.4	27.8	:5
7.6 85.1 56 5.1 60.3 27 0.2 201.4 4	8	Education	0.8	32.6	C 1	2.2	49.9	6		1	•	3.0	45.1	1
0.2 201.4 4	80	5 Health/Social Work	7.6	85.1	56	5.1	60.3	27	-	•	•	12.7	75.1	8
	6	2 Recreation/Cultural/Sport	•	•	•	0.2	201.4	4	4	•	•		201.4	t,
		Total	1.877		10,342	376.6		2,688	177.4		2,158	2,401.7		15,187

## Table 3.7 Existing Industrial Wastewater Discharge and BOD Load by Category

5	Table 3.8 Existing BOD Lo	OD Load Effluent to River of Each Pollutant Source (1/3)	a Pollutant So	urce (1/3)			
Code Company Name	Industrial Activity	Name of Community	Discharging	Discharge	BOD Content/Load	int/Load	Treatment
					10401		11/00
4082 COMPORSA STANCESTI	Livestock Farm	Aricestii Kahtivanii(Stancesti)	Prabova	0.	1,249.0	1271	W/ 7
4075 PENITENCIARUL TG.NOU	Public Administration/Defense	Public Administration/Defense Aricestii Rahtivanii(TG. Nou)	Leaotul	0.8	8.41	-	W/T
4076 U.M.01991	Public Administration/Defense	Public Administration/Defense Aricestii Rahtivanii(TG. Nou)	Leaotul	0.6	8.4	0	LW
4004 SINTERREF AZUGA	Non-Metallic Mineral Products Azuga	Azuga	Azuga	2.0	6.5	T	W/T
4006 BERE AZUGA.	Food/Beverage	Azuga	Prahova	15.1	32.3	42	W/T
4007 POSTAV AZUGA		Azuga	Azuga	11.2	54.1	52	W/T
4009 STIAZ AZUGA	Non-Metallic Mineral Products Azuga	Azuga	Prahova	2.5	8.8	2	W/T
4010 SPITALUL AZUGA	Health/Social Work	Azuga	Prahova	1.4	98.3	12	W/T
4053 S.C.SERPLO S.A.PLOIESTE	Irrigation (Flowers)	Barcanesti(Tatarani)	Piriul Rece	1.3	10.0	1	W/T
4150 MATIZOL	Construction	Berceni	Iazul Morilort	10.7	35.4	33	WЛ
4151 U.M. 01959	Public Administration/Defence Berceni	Berceni	Teleajen	0.3	8.4	0	J/M
4137 S.C. VEGA S.A.	Peroleum Refinery	Berceni(Corlatesti)	Dimbu	9.2	51.3	41	W/T
4158 S.C. ASTRA ROMANA SA	Petroleum Refinery	Berceni(Corlatesti)	Dimbu	224.0	100.6	1,947	T/W
4042 AVICOLA BLEJOI	Livestock Farm	Blejoi	Telcajen	2.2	767.0	147	W/T
4209 PREFABRICATE BLEIOI	Construction	Blejoi	Teleajen	1.0	22.0	2	W/T
4101 GES SCAIENI	Wood	<b>Boldesti-Scaieni</b>	Teleajen	2.2	12.1	2	W/T
4102 S.C. CAHIRO S.A.	Paper/Paper Products	Boldesti-Scaieni	Teleajen	15.0	25.1	32:	W/T
4517 POLIGON P.S.I.BOLDESTI	Public Administration/Defence Boldesti-Scaieni	Boldesti-Scaieni	Teleajen	1.1	15.0	1	WO/T
4577 S.C. AGROS SCAIENI	Livestock Farm	Boldesti-Scaieni	Teleajen	0.8	284.9	20	W/T
4273 COPIMEX BRAZI		Brazi	Viisoara	2.3	767.0	151	
4322 T.C.I. PLOIESTI	Construction	Brazi	Prahova	0.4	22.0	1	WO/T
4568 U.M.1065	Public Administration/Defence	Defence Brazi(Negoiesti)	Leaotul	2.2	8.4	2	W/T
4047 RENEL BRAZI	Electricity/Gas/Water Supply	Brazi(Pisculesti))	Prahova	278.6	15.9	383	W/T
4591 SPITAL BREAZA	Health/Social Work	Breaza	Prahova	0.7	07.0	9	W/T
4091 S.C.CHIMFOREX BUCOV	Petroleum Refinery	Bucov	Iazul Morilort	6.0	60.09	5	W/T
4103 SOCERAM BUCOV	Construction	Bucov	Teleajen	4.4	8.6	3	W/T
4103 SOCERAM BUCOV	Construction	Βυςον	Teleajen	0.4	11.4	0	W/T
4112 ARPACOR	Chemical/Chemical Products	Bucov	Teleajen	3.4	8.9	ŝ	WO/T
4106 REAL PLEASA	Basic Metals	Bucov(Pleasa)	Teleajen	11.1	12.9	12	T/W
Note: W/T - with treatment W/T - without treatment	treatment						

ı.

Note: W/T : with treatment, WO/T : without treatment

I	Table 3.8 Existing BOD Load Efficient to Kiver of Lach Follutant Source (4.3)	ad Litiuent to kiver of La	сп гопиали зо				
Code Company Name	Industrial Activity	Name of Municipality	Discharging	Discharge	BOD Content/Load		Ireatment
		· · ·	Place	(J/S)	(mg/l) (	(kg/d)	
4012/SANATORIUL T.B.C. BUSTENI Public Administration/Defense/Busteni	Public Administration/Defense	Busteni	Prahova	2.8	8.4	2	W/T
4014 HARTIA BUSTENI	Paper/Paper Products	Busteni	Prabova	114.6	12.4	123	ТW
4270 S.C. AGROINDUSTRIALA CERE: Livestock Farm		Cerasu	Drajna	1.0	767.0	2	W/T
4017 S.E.P.P.L. CIMPINA		Cimpina	Doftana	2.2	139.8	26	ТW
4017 S.E.P.P.L. CIMPINA	Wood	Cimpina	Prahova	0.1	139.8	6	ΤW
4033 S.C. CONCORDIA S.A.	Electrical Machinery/Apparatus Cimpina	Cimpina		1.5	972.0	129	T/M
4035 S.C.STEAUA ROMANA SA	Petroleum Refinery	Cimpina	Doftana	83.1	46.9	337	W/T
4292 S.C. PETROUTILAJ S.A	ent	Cimpina	Prahova	3.1	23.8	9	ΜŢ
4292 S.C. PETROUTILAJ S.A	Machinery/Equipment	Cimpina	Prahova	4.9	23.8	10	Τ/W
4566 GR.SC.CIMPINA		Cimpina	Prahova	9.0	29.1		WЛ
4593 SPITAL VOILA	Health/Social Work	Cimpina	Doftana	2.9	97.0	25	W/T
4598 U.M.0865 SCOALA DE JANDAR Public Administration/Defence Cimpina	(Public Administration/Defence	Cimpina	Prahova	1.8	8.4	1	W/T
4071 S.C.AGROMEC CIORANI S.A.	Agricultural Activities	Ciorani	Cricovul Sarat	0.2	10.0	0	W/T
4239 SECTIA EXTERIOARA CIORAN Health/Social Work	VHealth/Social Work	Ciorani	Cricovul Sarat	0.1	07.0	1	Т/W
4213 VULTURUL COMARNIC	ធ្ល	Products Comarnic	Prahova	1.5	3.5	õ	Т/W
4025 SECTIA POSADA	Wood	Comarnic(Posada)	Prahova	0.6	139.8	7	МЛ
4342 COMPLEX MUZEAL	Hotel/Restaurant	Comarnic(Posada)	Prahova	0.5	100.0	5	T/W
4092 SPIT. T.B.C. DRAJNA	Health/Social Work	Drajna		0.3	165.7	4	ТW
4003 SPITALUL FILIP. TG.	Health/Social Work	Filipesti de Targ	Prahova	0.3	200.0	5	T/O/
4005 FILIPESTI DE TIRG	Education	Filipesti de Targ	Prahova	0.1	50.0	 ₽¶	T/OW
4039 VICTORIA FLORESTI	Petroleum Refinery	Floresti	Prahova	146.8	12.3	155	WЛ
4298 UNIT. TERIT. 440	Public Administration/Defence Gura Vitioarei	Gura Vitioarei	Teleajen	0.2	7.0	0	ТW
4098 AGROMEC MAGURELE	Agricultural Activities	Magurele	Teleajen	0.2	10.0	ō	WЛ
4223 CONSERVE MAGURELE		Magurele	Telcajen	9.5	31.2	36	ТW
4310 U.M.01562	Public Administration/Defence Magurele	Magurele	Teleajen	0.1	8.4	ō	WЛ
4551 SOCIETATEA COMERCIALA 4551 APASCO S.A.MA	Construction	Maneciu	Teleajen	0.2	22.0	0	WO/T
4551 APASCO S.A.MA	Construction	Maneciu	Teleajen	0.2	22.0	0	WO/T
Note: W/T - with treatment WO/T - without treatment	reatment						

Table 3.8 Existing BOD Load Effluent to River of Each Pollutant Source (2/3)

Note: W/T : with treatment, WO/T : without treatment

4087 U.M. 01035 CHEIAPublic Ac4087 U.M. 01035 CHEIAPublic Ac4166 MANASTIREA SUZANAEducation4535 STATIA SOL CHEIAPost/Telec4089 S.E.P.P.L. MANECIUWood4257 U.M.01532Public Ac4585 U.M. 01958Public Ac			ç	1			
U.M. 01035 CHEIA MANASTIREA SUZANA STATIA SOL CHEIA S.E.P.L. MANECIU U.M.01532 U.M. 01958			riace	(1/s)	(mg/l)	(kg/d)	
	Public Administration/Defence Maneciu(Cheia)	Maneciu(Cheia)	Teleajen	0.2	8.4	0	Т/W
	ation	Maneciu(Cheia)	Teleajen	0.1	29.1	0	ТW
	Post/Telecommunication	Mancciu(Cheia)	Gropsoarcle	0.1	7.9	0	ЪW
	Ą	Maneciu(Maneciu Ungureni)	Telcajen	0.7	267.6	15	WЛ
	Public Administration/Defence Paulesti	Paulesti	Dimbu	0.1	8.4	õ	WЛ
	Public Administration/Defence Paulesti	Paulesti	Prahova	6.0	8.4	-1	ТW
BRAZI S.A.	Petroleum Refinery	Ploiesti	Prahova	468.7	0.66	4,008	W/T
	Food/Beverage	Ploiesti	Dimbu	2.5	31.2	1	WO/T
STI	Rubber/Plastics Products	Ploiesti	Dimbu	9.8	3.7	3	W/T
	Food/Beverage	Ploiesti	Dimbu	0.8	31.2	2	W/T
	land Transport	Ploiesti	Dimbu	0.2	224.0	3	ΝŢ
	Machinery/Equipment	Ploiesti	Dimbu	3.7	8.2	3]	WO/T
STI	Metal Products Fabricated	Ploiesti	Dimbu	3.8	5.0	2	T/W
A PL.	Petroleum Refinery	Ploiestí	Teleajen	271.4	58.7	1,376	Ш
STI	Petroleum Refinery	Ploiesti	Dimbu	0.9	51.7	4	Тw
4160 UPETROM PLOIESTI Mach	Machinery/Equipment	Ploiesti	Dimbu	21.3	23.8	44	МЛ
4305 INDUSTRIE MICA Minin	Mining/Quarrying	Ploiesti	Prahova	0.0	20.0	0	WO/T
	ent	Plopeni	Teleajen	4.6	16.8	1	WO/T
4507 CAMINUL DE BATRINI MISLE/Health/Social Work		Scorteni	Tclega	2.0	27.1	5	W/T
4016 CERBUL SINAIA Hotel	Hotel/Restaurant	Sinaia	Prahova	0.8	100.0	7	T/W
DTA 1400	Hotel/Restaurant	Sinaia	Peles	1.0	100.0	6	МЛ
4218 CABANA C.DORULUI Hotel	Hotel/Restaurant	Sinaia	Izvorlu Dorului	0.1	100.0	-1	ТW
4532 SALINA SLANIC Minin	Mining/Quarrying	Slanic	Slanic	0.5	8.7	0	ТW
4316/U.M. 01819 Public	Public Administration/Defence	Defence Targsorul Vechi(Crangul Lui	Leaot.	2.7	9.6	7	ТW
4115 I.C.V.V.VALEA CALUGAREASOFood/Beverage		Valea Calugareasca	Teleajen	0.8	30.1	67	٣'n
4117 S.C.ROMFOSFOCHIM SA Chem	Chemical/Chemical Products	Valea Calugareasca	Telcajen	53.9	60.0	280	ΜŢ
	Mining/Quarrying	Valenii de Munte		1.2	11.6	7	T/W
4211 U.M.VALENII DE MUNTE- Machi Machi	Machinery/Equipment	Valenii de Munte	Telcajen	2.9	23.8	9	W/T
Total				1,847.6		10,343	

Table 3.8 Existing BOD Load Effluent to River of Each Pollutant Source (3/3)

Parameter	Code	Receiving Body	Q (1/s)	(3)	SS (mg/l)	og/l) :-	BOD	BOD (mg/l)	COD-Mn (mg/l)	(mg/l)	Oil (mg/l)	(1/S)
National Standards	s. Z	<b>}</b>	,		60.0 (300)	300)	20.0 (300)	300)	40.0 (-)	÷	5.0 (20.0)	(0)
Factory			Permitted	Actual	Permitted	Actual	Permitted	Actual	Permitted	Actual	Permitted	Actual
Bere Azuga	4006	4006 River	22.0	15.1	09	123.7	20	32.3	40	18.0	1	14.9
Postav Azuga	4007	4007 River	30.4	11.2	33	22.7	20	54.1	1	29.9	1	6.4
Spitalul Azuga	4010	4010 River	1.8	1.4	100	121.0	99	98.3		78.2	 	
Harita Busteni	4014	4014 River	551.0	114.6	09	67.8	4	12.4	1	9.5	•	Ŧ
S.C. Steaua Romana S.A.	4035	4035 River	137.0	83.1	30	109.1	99	46.9	1	26.5	8	8.0
S.C. Petrobrazi S.A.	4051	4051 River	2,028.0	468.7	100	199.3	50	66	140	61.5	12	19.9
S.C. Cahiro S.A.	4102	4102 River	179.0	15.0	50	173.1	28	25.1	40(Cr)	94.1	•	0.9
S.C. Dero Lever Ploiesti	4124	4124 Domestic Sewerage	41.2	15.0	180	61.0	100	80.0		60.0	0	*
S.C. Vega S.A.	4137	4137 Industrial Sewerage	105	0.6	160	120.1	175	51.3	100(Cr)	94.2	200	23.6
Progresul Ploiesti	4138	4138 River	30.4	9.6	200	61.0		6.3	ŀ	1.3	L	2.0
INCAF. Ploiesti	4143	4143 Industrial Sewerage	6.9	6.3	100	778.5	-09	632	30	317.3	5	10.4
Feroemail Ploiesti	4146	4146 Domestic Sewerage	18.9	7.7	100	118.0	100	62.2	30	26.4	0	0.7
S.C. Perrotel SAPL.	4148	4148 River	568.2	271.4	40	158.7	25	58.7	100(Cr)	65.0	8	37.3
Matizol	4150	4150 River	35.0	11.0	100	127.5	<del>4</del>	35.4	•	19.9	•	4.3
S.C. Astra Romana S.A.	4158	4158 River	300.9	244.0	69	164.3	20	100	40	97.7	S <sub>1</sub>	30.0
Coca Cola Ploiesti	4311	4311 Domestic Sewerage	19.7	7.0	180	133.5	250	304.5	•	94.2		F
Prahoveana Ploiesti	4318	4318 Domestic Sewerage	4.6	1.7	150	119.3	100	62.8	30	112.7	0	53.1
Electroutilaj	4554	4554 Domestic Sewerage	6.9	6.5	300	100.9	250	972.0	200	732.0	30	3.0
Neptun Campina	4559	4559 Domestic Sewerage	15.0	12.0	60	22.4	09	45.7	100	165.0	5	6.8
I.R.A. Campina	4575	4575 Domestic Sewerage	7.7	8.1	150	124.0	100	70.0	70.0 200(Cr)	29.3		5.0
Total			4,109.6	1,185.6								
Martin Charles Constants ( 1997)		sector of all all and the sector free	in alian in annin	tith mercenthy	doub and some	and for day	macrie camer					

Table 3.9 Existing Average Wastewater Effluent Quantity and Quality of Selected Factories

Note: (1) National Standards : without parentheses are discharge for river, while with parentheses are discharge for domestic sewerage

(2) The new national standards were published in November 1997. However, the existing permission will be effective for the time-being until the license expires.

No	Pollutant Name	Accident Period	Affected River	Accident Location	Accident Features
	Petrotrans Ploiesti	19/6/1989	Vilucelul Cerbului	19/6/1989 Vilucelul Cerbului upstream of Paltinu Dam	diesel oil leakage due to pipeline damage
10	Petrotrans Ploiesti	1/1/92		upstream of Paltinu Dam	diesel oil leakage due to pipeline damage
1 👾	3 S.C. Petrobrazi S.A	<b>B</b> 2	5/7/93 Prahova	Pisculesti bridge	Sulphide $(S^{2*})$ discharge due to pump damage
h=	4 F.E. Ploiesti	30/9/1995 Prahova	Prahova	Pisculesti bridge	fuel oil discharge due to pipeline damage
	5 Petrotrans Ploiesti	1/1/95	•	upstream of Paltinu Dam	diesel oil leakage due to pipeline damage
	6 Petrotrans Ploiesti	7/3/1995-24/5/1995 Doftana	Doftana	upstream of Voilu Purification Plan	upstream of Voilu Purification Plar diesel oil leakage due to pipeline damage
H čí	7 S.C. Vega S.A.	15/6/1995 Dimbu		downstream of Ploiesti sewageT.P	downstream of Ploiesti sewageT.P oil products overflow from wastewater T.P. due to heavy rain
Ĭ	8 Conpet Sectia Sirt	4/8/95	4/8/95 Recea Spring	upstream of Teleajen confluence	crude oil discharge due to pipeline damage
6	Astro Romana	1/9/95	1/9/95 Dimbu/Teleajen	downstream of Ploiesti City	oil products overflow from T.P. due to heavy rain
	10 S.C. Petrobrazi S.A	29/11/1995 Prahova		Pisculesti bridge	biological sludge/oil discharge due to misoperation/valve damage
<u> </u>	11 Petrotrans Ploiesti	27/12/1995-31/7/1996 Doftana	Doftana	upstream of Voilu Purification Plar	upstream of Voilu Purification Plan diesel oil leakage due to pipeline damage
<u> </u>	12 F.E. Ploiesti	30/12/1996-10/12/1997 Prahova	Prahova	common channel (GIB II)	fuel oil discharge due to fuel truck accident
	13 Perrotrans Ploiesti	1/1/97	1/1/97 Doftana	Valea Doftana	diesel oil leakage due to pipeline damage
<u> </u>	14 S.C. Vega S.A.	26/4/1997 Dimbu		Ploiesti City	n-Hexane/Vollatile discharge due to pump damage
	15 S.P. Baicoi	14/6/1997-22/6/1997 Runcu	Runcu	Bordeni Village	crude oil/salt water discharge due to valve darrage
<b>–</b>	16 S.P. Baicoi	9/9/1997-30/9/1997 Runcu	Runcu	Bordeni Village	crude oil/salt water discharge due to pipeline damage
<u> </u>	17 Petrotrans Ploiesti	19/11/1997 Doftana		Valca Doftana	diesel oil leakage due to pipeline damage
	18 Petrotrans Ploiesti	10/7/1998-13/7/1998	Doftana	near by basin boundary	dicsel oil leakage due to pipeline damage

Table 3.10 Accidental Pollution Record

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Note: T.P. : treatment plant

Table 4.1 Public Awareness Activities by EPA Ploiesti (1/2)

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Year	Brief Description of the Activity	Products of the Activity
1997	Information dissemination for the citizens of Ploiesti and Prahova County on environmental quality	Daily reports on air quality were sent to 4 local newspapers and 2 local radio stations.
	Presentation on the soil and underground water pollution in the southern area of Ploiesti and Campina.	Videotapes TVR 1 transmission (10 minutes)
	International Environment Day 1997: awareness campaign on environmental protection: 100 posters and 100 folders	Posters and folders were prepared and distributed with the help of NGO. People
		and Environment.
	Information campaign on community behavior and environmental protection	4 live transmissions at the local radio Q & A with listeners
	Public debate regarding the impact of industrial pollutants to promote the	4 debates with the citizens from
	civic spirit of the community	Comarnic, Azuga, Busteni, Valeni de Munte.
	Information dissemination for the citizens on the main pollution problems in	Numerous articles in local daily papers,
	Prahova County and on the EPA activities through frequent interviews with local press. radio and television	radio and TV shows
	Presentation on the complex pollution in Valea Calugareasca and SC	A series of 6 articles in "Prahova
	ROMFOSFOCHIM SA activity, a series of articles in the press and TV show	Telegraph,"10 minutes videotapes for TV Antena 1
	Awareness campaign for drivers on engine verification and adjustment, and on the reduction of exhaustion	Testing cars with the cooperation of the police department
		Articles and shows

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Year Month	Brief Description of the Activity	Products of the Activity
1998	Information dissemination on environmental problems in Prahova County by publishing EPA activities in the press	A daily special page in a local newspaper
	Ecology course "Life in Community" at the University of Ploiesti	Monthly free course for 10-15 persons
	Educational courses for the member of NGO, Eco-VALAHIA on	35 certified environmental volunteers
	environmental problems (air, water and soil pollution), pollution sources and	
	its countermeasures	
	Raising public awareness on individual waster deposits from	TV show (national channel)
	ROMFOSFOCHIM- Valea Calugareasca	Articles in newspapers
	International Environment Day 1998: educational campaign for pupils on	Meetings between EPA inspectors and
	environmental problems - drawing contests, scientific papers, taking care of	pupils from 12 schools
	school garden, and talks with pupils	
	International Environment Day 1998: certification of the first group of	35 environmental volunteers
	environmental volunteers (MWFEP order #, 194/96) graduated from the	· · · · · · · · · · · · · · · · · · ·
	special courses offered by NGO, ECO-VALAHIA	
	International Environment Day 1998: popularization campaign on the first	1000 folders, newspaper articles, radio
	local scheme (Ploiesti) of recyclable waste collection	and TV shows
×	Educational campaign on oil waste collection	Folders, articles, radio and TV shows
8-9	Informational campaign on the ozone layer protection, in cooperation with	Drawing contests for children, 1000
	School Board and NGOs	posters and folders, articles, radio and
		TV-shows
7-12	Educational campaign for green areas and vegetation in the cities, and tourist	Meetings with pupils, folders, articles in
(planned)	education, in cooperation with NGO, ECO-VALAHIA and Biology Museum	the newspapers, radio and TV shows
	in Ploiesti	
6-12	Album production on Bucegi natural reservation to popularize the area, and	1000 albums of Bucegi reservation
(planned)	ecological education for the tourists.	
Source: EPA Ploiesti	loiesti	

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### Table 4.1 Public Awareness Activities by EPA Ploiesti (2/2)

Ž	o.1 Name. Location and Year of Foundation	Membership	Main Activities
	"GREEN SHIELD" ECOLOGICAL GROUP - SATURN FEDER	20	Protection of the citizens' rights to a clean and healthy environment Promotion of the citizens' initiatives concerning the preservation of a clean environment
۴	A PADEEN CUTEI D. ECOLOGICAL GROUP	55	Forestry, ecological education
4		1	Legislation
5	3 TRAINING, INFORMATION AND MEDIATION CENTER	22	Environmental conflict resolution
	for ECO-DEVELOPMENT (TIMCED) Ploiesti 1993		
4	-	35	Pollution impact assessment
	Ploiesti, 1994		Management for NGOs
M	5 "LYNX" - ECOLOGICAL TOURISM AND MOUNTAINEERIN	15	Development of ecologic tourism and mountaign sports
	Ploiesti, 1997		Environmental protection projects
Ľ	6 ECO - VALAHIA	85	Training for environmental volunteers
	Ploiesti,1997		Waste products collection
ſ	7 THE CULTURAL-SPORTIVE-ECOLOGIC ASSOCIATION	N/A	An increase in the education level of the pupils in the FOREST SCHOOL GROUP
	of THE FOREST SCHOOL GROUP		
	Campina		
°	8 "NATURE AND US"	25	Environmental education
	Campina, 1992		Protection of natural resources and the ecosystem
r	9 "SILVA" TOURISM CLUB	29	Promotion of new relationship between tourism-ecology-people
	Campina, 1993		
F	10 ECO VALEA PRAHOVEI	80 80	Biodiversity, Education, Environmental Protection
	Busteni, 1990		
	11 ROMANIAN ENVIRONMENTAL CENTER	ŝ	Ecological education
	Busteni, 1997		Touristic informations, advice on environmental problems
H	12 QUEEN'S FLOWER ENVIRONMENTAL CLUB	25	Public participation
	Sinaia, 1996		
-	13 ROMANIAN ECOLOGISTS and RADIO AMATEURS	246	Education. Information campaign
_	Azuga, 1995		
Ş	Sources: Romanian NGOs Catalogue 1997		

Table 4.2 Environmental NGOs in Prahova County

Sources: Romanian NGOs Catalogue 1997 Regional Environmenta Center (REC) - Romania (1996)

					( <b>v</b> )	(B) Domestie Use	č Use	(C) Induktrial Use	1 Cvc	(D) Agricultural Use	anal Use	Total	
						Durect		Durect		Direct	Namark	Additional	
(abeda)		Activity		Present	TON	Surface	Water	Water	Water	Water	Water	(Q)+(Q)+(B)	
Point Code	c Name of Establishment	Code Code	Raver	Volume	Reduction	Intake	Supply	Intake	Supply	Intake	Supply	(v) -	Remarks
95 4008		41AJ	Prahova		0	235.6	43.9		1,324.2			1,603.	3.7
		97	Azuga	83.0	. 0			56.4				, LA	56.4
5 4006	5 BEREAZUGA -	5	Arupa	674.0	0			458.3				4 1	
		17	ANUS	465.0	0			316.2				E.	
		058	Azuga	7,540.0	0					÷		:	0.0
		ጽ	Prahova	119.0	0			121.7				39	
		21	Prahova	4.771	0		210.4	3,240.5	41.0			1.174.2	
195 4317		41A3	Anga	871.0				0.001				ξ <del>2</del>	
				C6C/1	0.0	561	C-96-2	7'661'*	5 - 101 				
× 1018		41A1	Prahova	0.70/1	<u>-</u>			1 001				12	1 00 1
1204		Ċ,	FIEROVA	1 657 0		н Uz	00	1.001	107.3				337.1
2001 100		IVIT	Pratrice	116		783.7						54	/46.2
		41	Drahova	, ,				245					2ª
		: :	Prahova	4				4.64				1.4	49.4
		ì		399.0	0.0	753.2	0.0	9.67	43.1			87	870.1
Dam1 4375		41A1	Doftana	0.04		407.3	Í					407.3	5.3
		41.01	Doftana	68,424,	20.52		22.597.3		41,033.7		-	43,103,8	3.8 10,2865
TLOT	L P A C C L CAMPINA	41A3	Doltana	8.675	l	1.358.0			2,140.2			3,498	
		ส	Doftana	218.	•			148.2	12.2			16	160.5
144		05A	Doftana	57.0	•								0.0
4551		<del>5</del> 5	Doftana	24.0	0			16.3					16.3
				8.974.	0.0	1.358.0	0.0	164.6	2,152.4			3,675.0	20
		67	Prahova	189.0	0			128.5	1				
		0143A	Prahova	1.121.0					COC7			3	
		<b>4</b> 710	PTANOVA	10					C 012 7 1			- 014 / F	2.4
		41AZ	Pradova	0.108,01	~ ~				F'97/%+F			7.147	00
217 4235	SCHELA DE PRODUCTIE	77	evolety	0.040		00	00	128 5	14 948 8	9 LL5i	ž	0.0	2 2
		11/10	Prahova					0.0					0.0
2754		41A1	Teleaicn	1.102.0			407.4		18.4			1223	
4088		41AJ	Telcajen	58.0			1,001.9		2.0			6'00'1	1.9 1,003.90
4089		20	Telcajen	40,4				272				(1	272
4212		41 <b>A</b> 1	Telesjen	38,157.0	11,447.1		11,295.3					3.86	Ř
			•	19.357 (	•		12,704.5	272	4			5,325.4	14 38,142.70
			Tclcajen	417.0				1 1000	6.061			2001 2001	2 Y
240 4092		<b>‡</b> , .	TCICEDCO		00	00	00		150.9			2 056 1	2 2
		I Y LY	Varbilati	0.19112		2022		1 1 X X 1				1.100.3	
Nor Nor		0.410	Varbitau	748.0		~~~~~							. 0.0
				0.000	0.0	859.5	0.0	0.0	240.7			1,100.3	53
6074		45	Tcleajen	44.0				48.3				4	48.3
4326		92	Teleajen	0.11.0	~			15.0				н ; '	0.0
4117			Teleajea	I,694.0				-1.694.0				-1,694.0	9 2
	Sub-total			1.749.0	0:0	0.0	0.0	-1.6.90.8	010	0.5.60	<u> </u>	-1.02	ų.
		15	Cricowi	80.08				26.0				£, -	20.0
1474 0			CICOM	0.0/1				24.0				- <b>v</b>	290
				2 M 1								5	

Table 5.1 Required Additional Surface Water Extraction

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Note: Figures with " are surface water extraction volumes adjusted between code 4036 and code 4212.

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								(unit : n	n <sup>3</sup> /s)
	Exist	ing Flow Ra	ato	Flow Rate in	a 2015 w/o l	Dam Dev.	Flow Rate in	2015 with	Dam Dev.
Model Point	50%	75%	95%	50%	75%	95%	50%	75%	95%
190	1.316	0.766	0.399	1.316	0.766	0.399	1.316	0.766	0,399
195	2.911	1.678	0.572	2.863	1.630	0.525	2 863	1.630	0.525
Α	4.669	2.768	1 216	4.653	2.752	1.201	4.653	2.752	1.201
200	5.262	3.646	2.547	5.346	3.729	2 630	5.346	3,729	2.630
Dam1	2.611	2 378	2.139	2.611	2 378	2.139	2.611	2,378	2 516
В	0.679	0.364	0.072	0.353	0.038	-0.254	0.353	0.038	0.123
с	0.827	0.390	0.007	0.443	0.006	-0.377	0.443	0.006	0.000
217	7.105	4.654	2.910	6.540	4.088	2 3 4 4	6.540	4.088	2.721
220	7.282	5.416	4.261	7,504	5.638	4.483	7.504	5.638	4 860
E	8.177	6.009	4.656	8.437	6.269	4.916	8.437	6.269	5 293
М	0.097	0.059	0.042	0.102	0.064	0.047	0.102	0.064	0.047
250	2.203	2.000	1.910	2.913	2.709	2.620	2.913	2.709	2 620
Dam2	2.185	1.531	1.14)	3.338	2.359	1.846	3.338	2.359	2 354
J	2.193	1.186	0.660	1.025	0.018	-0.508	1.025	0.018	0.000
240	2.278	1.242	0.704	1.151	0.114	-0.423	1.151	0.114	0.084
K	3,835	2 234	1.446	2,951	1.351	0.563	2.951	1.351	1.071
L	5,497	3,560	3.040	4.325	2.976	2.206	4.325	2.976	2 713
260	7.700	5.560	4.950	7.287	5.735	4.875	7.287	5,735	5,383
270	16.033	12,706	10.636	16.702	13.375	11.305	16.702	13.375	12 189
275	0.161	0.106	0.066	0.173	0.118	0.078	0.173	0.118	0.078
0	0.688	0.454	0.282	0.751	0.516	0.345	0.751	0.516	0.345
280	0.849	0.560	0,348	0,963	0.674	0.463	0.963	0.674	0.463
Н	18,455	14.305	11.674	19.257	15.107	12.476	19.257	15.107	13.361

 Table 5.2 Existing and Future Prabable River Flow Rates

Municipality	Major Industy	ndusty	Gross Domestic	mestic	Groundwater	/ater	Total	Influent BOD	BOD	Effluent BOD	t BOD	Treatment
	Discharge	BOD	Discharge	BOD	Discharge	BOD	Discharge	$\sim$	Load	Content	Load	
	(S/2)	(I/gm)	(s/I)	(mg/l)	(1/s)	(I)gll)	(3/2)	(l/gm)	(kg/d)	(mg/l)	(Kg/d)	
Predeal	0.0	0	23.6	200	6.8	0	30.4	155.3	408	11.9	31	
Azuea	6.0	10.1	21.3	200		0	28.4	150.3	369	150.3	369	NOW
Busteni	7.7	190.0		200	8.4	0	45.1	161.0	628	161.0	627	WO/T
Sinaia	65.3	182.7	48.0	200	13.9	0	127.2	169.3	1.860	65.3	718	A
Comarnic				,	•		•		•		1	S/O/S
Breaza	32.6	68.2	36.0	200	10.4	0	10.62	119.3	814	13.4	16	A
Cimpina	120.3	198.7		200	30.4	0	291.8	178.6	4,503	43.7	1,101	A
Baicoi	21.0	65.4		200	5.6	0	45.9	114.0	452	74.8	297	A
Plopeni	80.4	32.5	32.4	200	9.4	0	122.2	74.4	786		458	A
Slanic	0.0	0.0		200	2.8	0	12.4	154.8	166	19.8	21	A
Valenii de Munte	1.1	83.4	12.8	200	3.7	0	17.6	150.7	229	26.9	41	A
Boldesti Scaieni	1.71	80.2		200	4.2	0	35.9	119.5	371	44.8	139	A
Urlati	4.3	369.2	20.0	200	5.8	0	30.1	185.6	483	33.1	86	A
Ploiesti	283.1	137.0	1,182.5	200	407.4	0	1,873.0	147.0	23,785	11.7	11,602	S
Floresti	8.1	22.2	16.0	200	7.1	0	31.2	108.3	292	39.6	107	A
Maneciu	0.0	0	7.5	200	3.3	0	10.8	138.9	130	39.7	37	A
Total	6419		1.613.6		525.4		2,780.9	   	35,275		15,726	

Table 6.1 Future Baseline Sewerage Discharge and Influent/Effluent Quality

Note: WO/T ; without treatment, WO/S ; without sewerage, A : activated sludge, S : coagulation settling

SSH NOU DIESTI DIESTI DESTI	n Mineral Mineral Work wers)	Aricestii Rahtivani (Stancesti) Aricestii Rahtivani (T.G. Nou) Aricestii Rahtivani (T.G. Nou) Azuga Azuga	Place Prahova	(J/S) -	(1/Øm)	(kg/d)	
Livestock Far       D     Public       Public     Non-Metallic       Food/Beverage     Food/Beverage       Textiles     Non-Metallic       Textiles     Petroleum Re       N     Petroleum Re       N     Petroleum Re       N     Petroleum Re       N     Petroleum Re       Nood     Nood       N     Public       Electricity/Gr     Health/Social       V     Petroleum Re       Construction     Construction       Construction     Construction       Basic Metals     Basic Metals		ni Rahtivani (Stancesti) ni Rahtivani (T.G. Nou) ni Rahtivani (T.G. Nou)	Prahova				
ID     Public       Public     Food/Beverage       Food/Beverage     Textiles       Textiles     Non-Metallic       Non-Metallic     Non-Metallic       Food/Beverage     Integration (Fig       STI Intragation (Fig     Petroleum Re       Non-Metallic     Petroleum Re       Nood     Livestock Far       Livestock Far     Livestock Far       Construction     Public       Public     Electricity/Gr       Health/Social     Construction       Construction     Construction       Basic Metals     Basic Metals	2	n Rahuvani (T.G. Nou) ni Rahuvani (T.G. Nou)		6.7	1,249.0	722	AS
Public Non-Metallic Food/Beverag Textiles Non-Metallic Non-Metallic Health/Social Infrigation (Flo Construction Public Public Livestock Far Livestock Far Livestock Far Livestock Far Public Construction Public Health/Social Health/Social Basic Metals Basic Metals	72. 72.	ii Rahtivani (T.G. Nou)	Leaotul	1.4		2	AS
GA Non-Metallic Food/Beverag Food/Beverag Non-Metallic Non-Metallic Non-Metallic Non-Metallic Non-Metallic Construction Public STI-Blejoi Livestock Far STI-Blejoi Livestock Far BLEJOI Construction BLEJOI Livestock Far I Livestock Far Fonstruction Public Construction NV Construction NV Construction NV Construction NV Construction NV Construction NV Construction NV Construction NV Construction NV Construction NV Construction	e e		Leaotul	1.0	13.4	~	AS
Food/Beverag       Textles       Textles       Textles       A     Health/Social       PLOIESTI Intgation (Flo       PLOIESTI Intgation (Flo       DENI     Public       STI-Blejoi     Livestock Far       STI-Blejoi     Livestock Far       BLEJOI     Construction       PLOIESTI     Public       INA SA     Petroleum Re       STI-Blejoi     Livestock Far       OLDESTI     Public       Public     Construction       Construction     Public       SUCOV     Public       V     Construction       OV     Construction       OV     Construction	E		Azuga	3.4		e	S S
Textiles       Image: A static st	æ	uga	Prahova	25.4		114	AS
Non-Metallic       A     Health/Social       PLOIESTI Irrigation (Fig       ENI     Petroleum Re       ANA SA     Petroleum Re       ANA SA     Petroleum Re       STI-Blejoi     Livestock Far       BLEJOI     Construction       BLEJOI     Livestock Far       OLDESTI     Public       IENI     Livestock Far       OLDESTI     Public       OLDESTI     Public       OLDESTI     Public       OLDOR     Construction       Y     Construction       Y     Construction       Y     Construction       Y     Construction	æ	1172	Azuga	18.8	:	140	AS
JGA Health/Social A. PLOIESTI Imgation (Fic Construction KCENI Public MANA SA Petroleum Re MANA SA Petroleum Re IESTI-Blejoi Livestock Far E BLEJOI Construction Wood A. Paper/Paper I BOLDESTI Public Construction COV Construction EX BUCOV Petroleum Re COV Construction COV Construction COV Construction COV Construction COV Construction COV Construction COV Construction			Prahova	4.2		5	S
COSA. PLOIESTI Imigation (Fig.)       DERCENI     Construction       DERCENI     Public       Construction     Eacloum Re       AROMANA SA     Petroleum Re       PLOIESTI-Blejoi     Livestock Far       ENI     Wood       ENI     Wood       ENI     Public       ENI     Public       ENI     Public       ENI     Wood       ENI     Livestock Far       PS.I.BOLDESTI     Public       NS SCAUENI     Luvestock Far       BRAZI     Livestock Far       BRAZI     Construction       IEUCOV     Construction       ASA     Basic Metals		Azuga	Prahova	2.3	1	31	AS
Distriction       Distruction       Distruction       A ROMANA SA       Public       A ROMANA SA       Petroleum Re       PLOTESTI-Blejoi       Livestock Far       ENI       ENI       ENI       ENI       ENI       ENI       ENI       ENI       ENI       P.S.I.BOLDESTI       Public       SCALENI       Livestock Far       BRAZI       Livestock Far       BRAZI       Livestock Far       BRAZI       Livestock Far       BLAZI       Lucotk Far       Public       Construction       FOREX BUCOV       Public       REAZA       Public       Construction       I BUCOV       Construction       I BUCOV       Construction       ASA       Basic Metals	Re	Barcanesti (Tatarani)	Piriul Rece	1.3		~	· AS
District     Public       S.A.     Petroleum Re       A.ROMANA SA     Petroleum Re       PLOIESTI-Blejoi     Livestock Far       PLOIESTI-Blejoi     Livestock Far       RO <s.a.< td="">     Paper/Paper I       P.S.I.BOLDESTI     Public       P.S.I.BOLDESTI     Public       S.CALENI     Livestock Far       BRAZI     Livestock Far       P.S.I.BOLDESTI     Public       SCALENI     Livestock Far       BRAZI     Livestock Far       PLOTOV     Construction       ROV     Construction       ROV     Construction       ROV     Construction       ROV     Construction       ASA     Basic Metals</s.a.<>		Berceni	lazul Morilor	18.0		88	AS
Petroleum Re Petroleum Re Construction Wood Wood Uvestock Far Livestock Far Livestock Far Livestock Far Livestock Far Livestock Far Construction Public Electricity/Gr Health/Social Health/Social Realth/Social Realth/Social Basic Metals/Ch	Be	Berceni	Teleajen	<b>5</b> .0.		I	AS
Petroleum Re Livestock Far Construction Wood Paper/Paper I Livestock Far Livestock Far Livestock Far Livestock Far Livestock Far Construction Public Electricity/Gr Health/Social Health/Social Reproleum Re Construction Construction Construction Construction Construction Construction Construction Construction		Berceni (Corlatesti)	Dimbu -	- 15 <b>.</b> 5	82.0	110	AS .
<ul> <li>Livestock Far</li> <li>Construction</li> <li>Wood</li> <li>Paper/Paper I</li> <li>Public</li> <li>Livestock Far</li> <li>Livestock Far</li> <li>Livestock Far</li> <li>Construction</li> <li>Public</li> <li>Flectricity/Gr</li> <li>Health/Social</li> <li>Remicals/Cl</li> <li>Basic Metals</li> </ul>		Berceni (Corlatesti)	Dimbu	376.3		5.234	AS
BLEJOI Construction Wood Wood DDESTI Public Construction Livestock Far Construction Public Electricity/Gr Health/Social Realth/Social NCOV Petroleum Re NV Construction NV Construction NV Construction NV Construction NV Construction	:	Blejoi	Teleajen	2.2	6	147	AS
Wood Paper/Paper 1 OLDEST1 Public ENI Livestock Far Construction Public Electricity/Gr Health/Social X Construction V Construction V Construction V Construction V Construction	18	Blejoi	Teleajen	1.6		Ş	AS
Paper/Paper 1 OLDEST1 Public ENI Livestock Far Construction Public Electricity/Gr Acalth/Social X Construction N Construction N Construction N Construction N Construction	B	Boldesti-Scaieni	Teleajen	3.6		9	co ·
OLDESTI Public ENI Livestock Far Livestock Far Construction Construction Health/Social Mealth/Social NV Construction V Construction NV Construction NV Construction		Boldesti-Scaieni	Teleajen	25.2		87	AS
ENI X BUCOV		Boldesti-Scaleni	Teleajen	9.1		ભ	0/M
C BUCOV		Boldesti-Scaleni	Teleajen	0.8		20	AS
C BUCOV	;	Brazi	Viisoara	2.3	6	151	AS
A SX BUCOV SOV		Brazi	Prahova	0.7			0/M
ESTI REAZA AFOREX BUCOV M BUCOV M BUCOV R EASA	B	Brazi (Negoiesti)	Leaonul	3.7		4	AS
X BUCOV		Brazi (Pisculesti)	Prahova	468.1		1,027	co
C BUCOV Petroleum Re DV Construction DV Construction DV Chemicals/Ch Basic Metals		Breaza	Prahova	1.1	155.2	2	AS
Construction Construction Chemicals/Ch Basic Metals		Bucov	lazul Morilor	1.5		12	AS
Construction Chemicals/Ch Basic Metals		Bucov	Teleajen	7.5		6	AS
Chemicals/Ch Basic Metals	Ř	Bucov	Teleajen	0.7	1	1	AS
		Bucov	Teleajen	5.8		4	0/M
	B	Bucov (Pleasa)	Teleajen	18.6		33	8
4012 SANATORIUL T.B.C.   PUDLC	B	Busteni	Prahova	4.7		N.	AS
4014 HARTIA BUSTENI [Paper/Paper Products		Busteni	Prahova	192.6		331	AS
4270 S.C. AGROINDUSTRIALA Livestock Farm		Cerasu	Drajna	0.1	767.0	Ł	AS

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•	•			Distance of	DON CONCINTORIO	ULO30	T reaument
			Place	(J/S) ·	Ľ	(kg/d)	
4017 S.E.P.P.L. CIMPINA	[Wood	Cmpma	Dottana	3.6	223.7]	70	co
4017 S.E.P.P.L. CIMPINA	Wood	Cimpina	Prahova	0.2	223.7	4	CO
4033 S.C. CONCORDIA S.A.	Electrical	Cimpina		2.6	1.555.2	346	. CO
4035 S.C.STEAUA ROMANA SA	Petroleum Refinery	Cimpina	Doftana	139.6	75.0	905	AS
4292 S.C. PETROUTILAJ S.A	Machinery/Equipment	Cimpina	Prahova	5.2	38.1	17	CO ·
4292 S.C. PETROUTILAJ S.A	Machinery/Equipment	Cimpina	Prahova	8.3	38.1	27	CO CO
4566 GR.SC.CIMPINA	Education	Cimpina	Prabova	1.0	46.6	4	AS -
4593 SPITAL VOILA	Health/Social Work	Cimpina	Doftana	5.0	155.2	66	AS
4598 0.M.0865 SCOALA DE	Public	Cimpina	Prahova	3.0	13.4	3	AS
4071 S.C. AGROMEC CIORANI	Agricultural Activities	Ciorani	Cricovul Sarat	0.2	10.0	0	AS
4239 SECTIA EXTERIOARA	Health/Social Work	Ciorani	Cricovul Sarat	0.2	155.2	e	AS
4213 VULTURUL COMARNIC	Non-Metallic Mineral	Comarnic	Prahova	2.6	5.6	1	· co
4025 SEPPL PLOIESTI SEC.	Wood	Comarnic (Posada)	Prahova	1.0	223.7	61	CO
4342 COMPLEX MUZEAL	Hotel/Restaurant	Comarnic (Posada)	Prahova	1.1.	190.0	18	AS
4092 SPIT. T.B.C. DRAJNA	Health/Social Work	Drajna	-	0.4	265.1	10	AS
4003 SPITALUL FILIP.TG.	Health/Social Work	Filipesti de Tag	Prahova	0.5	200.0	8	-0/M
4005 SCOALA AJUTATOARE	Education	Filipesti de Tag	Prahova	0.2	50.0	1	O/M ·
4039 VICTORIA FLORESTI	Peroleum Refinery	Floresti	Prahova	246.7	19.6	418	· SA
4298 UNIT. TERIT. 440	Public	Gura Vitioarei	Teleajen	0.3	11.2	0	SY .
4098 AGROMEC MAGURELE	Agricultural Activities	Magurele	Teleajen	0.2	10.01	0	AS
4223 CONSERVE MAGURELE	Food/Beverage	Magurele	Teleajen	16.0	49.9	69	AS
43100.M.01562	Public	Magurele	Teleajen	0.2	· 13.4	0	AS
4551 SOCIETATEA	Construction	Maneciu	Teleajen	0.4	22.0	1	- 0/M -
4551 SOCIETATEA	Construction	Maneciu	Teleajen	0.3	22.0	1	0/M
4087 U.M. 01035 CHEIA	Public	Maneciu (Cheia)	Teleajen	0.4	13.4	0	AS
4166 MANASTIREA SUZANA	Education	Maneciu (Cheia)	Teleajen	0.2	46.6	1	AS
4535 STATIA SOL CHEIA	Post/Telecommunication	Maneciu (Cheia)	Gropsoarele	0.2	12.6	0	AS
4089 S.E.P.P.L. MANECIU	Wood	Mancciu (Mancciu Ungureni)	Telcayen	1.1	428.2	41	co
4257 U.M.01532	Public	Paulesti	Dumbu	0.1	13.4	0	AŜ
X4510 M (142357						ł	

# Table 6.2 Future Baseline BOD Load Effluent to River of Each Pollutant Source (2/3)

Code Company Name	Industrial Activity	Name of Municipality	Discharge	Discharge	BOD Content/Load (ms/l) 1 (kg/d)	Treatment
40511S.C. PETROBRAZI S.A.	Perroleum Refinery	Plotesti	Prahova	187.3	+	SA IS
4136S.C VINALCOOL S.A	Food/Beverage	Ploiesti	Dimbu	4.2	31.2	0/M 1
4138 PROGRESUL PLOIESTI	Rubber/Plastic Products	Ploiesti	Dumbu	16.5	5.9	8 CO
4139 EXTRAPAN SEDIU	Food/Beverage	Ploiesti	Dimbu	1.4	49.9	
4140 SECTIA L6 PLOIESTI	Land Transport	Ploiesti	Dimbu	0.3	358.4	9 CO
414124 IANUARIE	Machinery/Equipment	Plotesti	Dimbu	6.3	8.2	4 W/O
4147 DACIA PLOIESTI	Metal Products Fabricated	Ploiesti	Dimbu	6.4	8.1	4 CO
4148 S.C.PETROTEL SA PL.	Petroleum Refinery	Ploiesti	Teleajen	455.9	93.9 3.699	9 AS
4149 PETROTRANS PLOIESTI	Petroleum Refinery	Ploiesti	Dimbu	1.6	82.7	I AS
4160 UPETROM PLOIESTI	Machinery/Equipment	Ploiesti	Dimbu	35.7	38.1 118	
4305 INDUSTRIE MICA MOARA   Mining/Quarrying	Mining/Quarrying	Ploiesti	Prahova	0.0	20.0	0/M 0
4100 U.M. PLOPENI	Machinery/Equipment	Plopeni	Telcajen	7.8	16.8	
4507 CAMINUL DE BATRINI	Health/Social Work	Scorteni	Telega	3.3	43.3	12 AS
4016 CERBOL SINAIA	Hotel/Restaurant	Sinaia	Prahova	1.6	190.0	7 AS
1400		Sinaia	Peles	2.1		34 AS
4218 CABANA CIDORULUI	Hotel/Restaurant	Sinala	Lzvorul	0.2	190.0	4 AS
4532 SALINA SLANIC	Mining/Quarrying	Slanic	Slanic	0.8	13.9	
4316 U.M. 01819	Public	Targsorul Vechi (Crangul Lui	Leaoul	4.5	15.8	6 AS
4115/1.C.V.V.VALEA	Food/Beverage	Valea Calugareasca	Telcajen	1.4	48.5	6; AS
4117S.C.ROMFOSFOCHIM SA	Chemicals/Chemical	Valea Calugareasca	Teleajen	0.0	0.0	ol co
4095 STICLOVAL VALENI	Mining/Quarrying	Valenii de Munte		2.0	18.5	si co
4211 U.M. VALENII DE MUNTE- [Machinery/Eq	Machinery/Equipment	Valenii de Munte	Teleajen	4.8	38.1	16 CO
I otal				3.004.51	1 25.183	25

Table 6.2 Future Baseline BOD Load Effluent to River of Each Pollutant Source (3/3)

Note: AS : activated sludge, CO : coagulation settling, W/O : without treatment

vice Ratio
tion and Sevice
ved Popula
werage Served
7.1 Future Se
Table 7.1

Municipality	~	Existing		Future	Future without Extension	noisne	Futur	Future with Extension	LOI
•	Total	Served	Service	Total	Served	Service	Total	Served	Service
	Population	Population	Ratio(%)	Population Population	Population	Ratio(%)	Population	Population	Ratio(%)
Predeal	6,940	5.890	84.9	7,757	6,586	84.9	7.757	6,981	8
Azuga	6.260	5,320	85.0	6,756		85.0	6,756	6,080	8
Busteni	12.050	7,240	60.1	13,017		60.1	13,017	11,715	6
Sinaia	15.060	12.000	1.61	16,268	12,966	1.61	16,268	14,641	6
Comarnic	13.580	0	0.0	14,662	0	0.0	14,662	5,865	40
Breaza	19.040	000'6	47.3	20,558	9,724	47.3	20,558	12,335	8
Cimpina	40.900	26,250	64.2	44,176	28,361	64.2	44,176	39,758	8
Baicoi	20.290	4.830	23.8	21,915	5,216	23.8	21,915	8,766	40
Plopeni	10.320	8,100	78.5	11,140	8,745	78.5	11,140	10,026	8
Slanic	7,380	2,400	32.5	7.973		32.5	7,973	3,189	4
Valenii	14,010	3,190	22.8	15,125	3,449	22.8	15,125	6,050	40
Boldesti	11,580	3,660	31.6	12,510	3,953	31.6	12,510	5,004	4
Urlati	11,890	5,000	42.1	12,844	5,407	42.1	12,844	7,706	60
Ploiesti	253,410	220,000	86.8	273,687	237.560	86.8	273,687	246,318	8
Sub-total	442,710	312,880	70.7	478,388	338,124	70.7	478,388	384,434	80.4
Floresti*	7,630	6,100	6.61	8,240	6,584	79.9	8,240	6,584	6.67
Maneciu*	11,450	2,860	25.0	12,366	3,092	25.0	12,366	3,092	25.0
Total	461,790	321,840	69.7	498,994	347,800	6.69	498,994	394,110	0'64

.

Municipality	Major Inc	lustry	Gross Don	restic	Groundy		Averag	e Quality/	Load
	Discharge	BOD	Discharage	BOD	Discharge	BOD	Total	Ave.BOD	BOD Load
	(Vs)	(mg/l)	(l/s)	(mg/l)	(Vs)	(mg/l)	Discharge(l/s)	(mg/l)	(kg/d)
Predeal	0.0	0.0	23.6	200	6.8	0	30.4	135.3	407.8
Azuga	0.9	10.1	21.3	200	6.2	0	28.4	150.3	368.8
Busteni	7.7	190.0	29.0	200	8.4	0	45.1	161.0	627.5
Sinaia	65.3	140.2	48.0	200	13.9	0	127.2	147.4	1,620.4
Comarnie	0.0	0.0	0.0	0	0.0	0	0.0	0.0	0.0
Breaza	32.6	68.2	36.0	200	10.4	0	79.0	119.3	814.2
Cimpina	120.3	84.8	141.1	200	30.4	0	291.8	131.7	3,319.6
Baicoi	21.0	65.4	19.3	200	5.6	0	45.9	114.0	452.2
Plopeni	80.4	32.5	32.4	200	9.4	0	122.2	74.4	785.6
Slanie	0.0	0.0	9.6	200	2.8	0	12.4	154.8	165.9
Valenii de Munte	: 1.1	83,4	12.8	200	3.7	0	17.6	150.7	229.1
Boldesti Scaieni	17.1	80.2	14.6	200	4.2	0	35.9	119.5	370.8
Urlati	4.3	150.3	20.0	200	5.8	0	30.1	154.4	401.4
Ploiesti	283.1	75.0	1,182.5	200	407,4	0	1,873.0	137.6	22,268.1
Sub-total	633.8	,	1,590.2		515.0		2,739.0		31,831.4
Floresti*	8.1	22.2	16.0	200	7.1	0	31.2	108.3	291.9
Maneciu*	0.0	0.0	7.5	200	3.3	0	10.8	138.9	129.6
Total	641.9		1,613.7		525.4	••••	2,781.0		32,253.1

Table 7.2 Future Sewerage Influent Disharge and Quality without Sewer Extension

\*: commune

 Table 7.3 Future Sewerage Influent Discharge and Quality with Sewer Extension

Major Inc	lustry	Gross Don	nestic	Groundy	water	Ачегаз	ge Quality/	Load
Discharge	BOD	Discharage	BOD	Discharge	BOD	Total	Ave.BOD	BOD Load
(Vs)	(mg/l)	(l/s)	(mg/l)	(Vs)	(mg/l)	Discharge(l/s)	(mg/l)	(kg/d)
0.0	0.0	25.9	200	7.2	0	33.0	156.6	446.8
0.9	10.1	22.5	200	6.4	0	29.8	151.6	389.9
7.7	190.0	43.4	200	10.6	0	61.7	164.3	876.2
65.3	140.2	56.2	200	15.2	0	136.6	149.2	1,761.6
0.0	0.0	21.7	200	3.4	0	25.1	173.0	375.3
32.6	68.2	45.7	200	11.9	0	90.2	125.9	981.5
120.3	84.8	197.9	200	37.0	0	355.2	140.2	4,300.6
21.0	65.4	32.5	200	7.6	0	61.1	128.7	679.7
80.4	32.5	37.1	200	10.1	0	127.6	78.7	867.4
0.0	0.0	11.8	200	3.1	0	14.9	158.2	204.1
1.1	83.4	22.4	200	5.2	0	28.7	159.3	395.1
17.1	80.2	18.5	200	4.8	0	40.5	125.5	438.7
4.3	150.3	28.5	200	7.1	0	40.0	159.0	549.0
283.1	75.0	1,225.9	200	412.5	0	1,921.4	138.7	23,017.9
633.8		1,790.0	·	542.1		2,965.8		35,283.8
8.1	22.2	16.0	200	7.1	0	31.2	108.3	291.9
0.0	.0.0	7.5	200	3.3	0	10.8	138.9	129.6
641.9		1,813.5		552.5		3,007.9		35,705.6
	Discharge (Vs) 0.0 0.9 7.7 65.3 0.0 32.6 120.3 21.0 80.4 0.0 1.1 17.1 4.3 283.1 633.8 8.1 0.0	(Vs)         (mg/l)           0.0         0.0           0.9         10.1           7.7         190.0           65.3         140.2           0.0         0.0           32.6         68.2           120.3         84.8           21.0         65.4           80.4         32.5           0.0         0.0           1.1         83.4           17.1         80.2           4.3         150.3           283.1         75.0           633.8         8.1           22.2         0.0         0.0	Discharge (l/s)         BOD (mg/l)         Discharage (l/s)           0.0         0.0         25.9           0.9         10.1         22.5           7.7         190.0         43.4           65.3         140.2         56.2           0.0         0.0         21.7           32.6         68.2         45.7           120.3         84.8         197.9           21.0         65.4         32.5           80.4         32.5         37.1           0.0         0.0         11.8           1.1         83.4         22.4           17.1         80.2         18.5           4.3         150.3         28.5           283.1         75.0         1,225.9           633.8         1,790.0         8.1           22.2         16.0         0.0           0.0         0.0         7.5	Discharge         BOD (l/s)         Discharage         BOD (l/s)         Discharage         BOD (ng/l)           0.0         0.0         25.9         200           0.9         10.1         22.5         200           7.7         190.0         43.4         200           65.3         140.2         56.2         200           0.0         0.0         21.7         200           32.6         68.2         45.7         200           120.3         84.8         197.9         200           21.0         65.4         32.5         200           0.0         0.0         11.8         200           1.1         83.4         22.4         200           1.1         83.4         22.4         200           1.1         80.2         18.5         200           4.3         150.3         28.5         200           283.1         75.0         1,225.9         200           633.8         1,790.0         1,790.0         1,5	Discharge         BOD         Discharage         Discharage <thdischarage< th=""> <thdischarage< th=""></thdischarage<></thdischarage<>	Discharge         BOD         Discharage         BOD         Discharade         Discharade         Dischara	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Discharge         BOD         Discharage         BOD         Discharage         BOD         Total         Ave.BOD           (Vs)         (mg/l)         (Vs)         (mg/l)         (Vs)         (mg/l)         Discharge         BOD         Discharge(Vs)         (mg/l)           0.0         0.0         25.9         200         7.2         0         33.0         156.6           0.9         10.1         22.5         200         6.4         0         29.8         151.6           7.7         190.0         43.4         200         10.6         0         61.7         164.3           65.3         140.2         56.2         200         15.2         0         136.6         149.2           0.0         0.0         21.7         200         3.4         0         25.1         173.0           32.6         68.2         45.7         200         11.9         0         90.2         125.9           120.3         84.8         197.9         200         37.0         0         355.2         140.2           21.0         65.4         32.5         200         7.6         0         61.1         128.7           80.4

Note: 1) \*: commune

2) per capita groudwater infiltration of the extension area is assumed to be half of the existing one.

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φ (300-500mm)x5,000 m         without Sewer Extension           φ (300-500mm)x5,000 m         L(22m)xW(3.6m)xH(4.4m)x1set         -           L(22m)xW(7.15m)xH(4.4m)x1set         -         -           L(22m)xW(7.15m)xH(4.4m)x1set         -         -           L(22m)xW(7.15m)xH(4.4m)x1set         -         -           L(22m)xW(7.15m)xW(1.1m)xH(4m)x1set         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         - <th>Managera</th> <th>ł Eneilision</th> <th>Evicting</th> <th>Additional Facilities</th> <th>Additional Facilities</th>	Managera	ł Eneilision	Evicting	Additional Facilities	Additional Facilities
Main Sewer         φ (300-500 mm)x5,000 m           Primary S.T.         L(21 3m)XW(16m)XH(56m)XH set           Aeration Tank         L(28m)XW(7,15m)XH(3,4m)X1 set           Secondary S.T.         L(28m)XW(7,15m)XH(3,4m)X1 set           Aeration Tank         L(28m)XW(7,15m)XH(3,4m)X1 set           Secondary S.T.         L(28m)XW(7,1500 m           Main Sewer         φ (300-1,000 mm)X1,500 m           Main Sewer         φ (300-1,000 mm)X1,500 m           Primary S.T.         L(22m)XW(11m)XH(6m)X1 set           Secondary S.T.         L(27m)XW(11m)XH(6m)X1 set           Primary S.T.         -           Aeration Tank         -           Primary S.T.         L(21m)XW(10,5m)X1 set           Aeration Tank         L(25m)XW(16m)XH(5m)X1 set           Primary S.T.         L(21m)XW(10,5m)X1 set           Aeration Tank         L(25m)XW(9m)XH(3m)X2 set           Aeration Tank         L(25m)XW(9m)XH(5m)X2 set           Aeration Tank         L(25m)XW(16m)XH(5m)X1 set           Aeration Tank         L(25m)XW(16m)XH(5m)X1 set           Aeration Tank         L(25m)XW(9m)XH(5m)X2 set           Aeration Tank         L(25m)XW(9m)XH(5m)X2 set           Aeration Tank         L(25m)XW(9m)XH(5m)X1 set           Aeration Tank         L(25m)XW(9m)XH(				without Sewer Extension	with Sewer Extension
Primary S.T.         L(21.3m)xW(16m)xH(5m)x1set         -           Aeration Tank         L(28m)xW(3.6m)xH(4.4m)x1set         -           Secondary S.T.         L(28m)xW(3.6m)xH(4.4m)x1set         -           Secondary S.T.         L(28m)xW(3.6m)xH(4.4m)x1set         -           Secondary S.T.         -         -         -           Aeration Tank         L(28m)xW(3.6m)xH(4.4m)x2set         -         -           Primary S.T.         -         -         -         -           Aeration Tank         -         -         -         -         -           Main Sewer         -         -         -         -         -         -         -           Aeration Tank         -	Predeal	Main Sewer			ф 300mx600 m
Aeration Tank         L(28m)xW(7,15m)xH(4,35m)x1set         -           Secondary S.T.         L(28m)xW(7,15m)xH(4,4m)x1set         -           Main Sewer         \$6300-500mm)x7,500 m         \$6500mm(4m)x250m           Primary S.T.         -         \$610mxH(4m)x2set           Aeration Tank         -         \$6300-500mm)x1,500 m         \$610mxH(4m)x2set           Aeration Tank         -         -         \$610mxH(4m)x2set           Aeration Tank         -         -         \$610mxH(4m)x2set           Aeration Tank         -         -         \$610mxH(4m)x2set           Primary S.T.         -         -         \$6300-500mm(x6,700 m           Primary S.T.         -         -         \$6300-500mm(x6,700 m           Primary S.T.         -         -         \$6300-500mm(x6,700 m           Primary S.T.         -         -         \$1(22m)XW(11m)xH(5m)X15mt           Aeration Tank         L(25m)XW(90,5m)XH(3m)X2set         -         \$1(30m)XH(5m)X2set           Aeration Tank         L(35m)XW(11m)xH(5m)X2set         -         -           Aeration Tank         L(35m)XW(10m)xH(5m)X2set         -         -           C         Main Sewer         -         L(35m)XW(11m)xH(5m)X15mt           Secondary S.T.		Primary S.T.	L(21.3m)xW(16m)xH(5m)x1set	I	F
Secondary S.T.         L(28m)xW(3.6m)xH(4.4m)x1set         -           Main Sewer         \$500mmX250m         \$500mmX250m           Primary S.T.         \$10mxH(4m)x2set         \$500mmX250m           Primary S.T.         \$10mxH(4m)x2set         \$10mxH(4m)x2set           Aeration Tank         -         \$10mxH(4m)x2set           Aeration Tank         -         \$10mxH(4m)x2set           Aeration Tank         -         \$10mxH(4m)x2set           Main Sewer         \$(300-1.000mm)x11,500 m         \$(300-60mm)x)50t m           Primary S.T.         L(22m)XW(11m)xH(5m)x1set           Aeration Tank         -         -           Primary S.T.         L(21m)xW(10.5m)XW(11m)xH(5m)x1set           Aeration Tank         L(21m)xW(10.5m)XM(11m)xH(5m)x1set           Aeration Tank         L(21m)xW(10m)xH(3m)x1set           Condary S.T.         L(21m)xW(10m)xH(5m)x2set           Aeration Tank         -         -           Condary S.T.         L(21m)xW(16m)x2set           Aeration Tank         -         -           Secondary S.T.         L(21m)xW(16m)x2set           Aeration Tank         -         -           Secondary S.T.         L(21m)xW(10m)x15m)x2set           Aeration Tank         -         - <td></td> <td>Aeration Tank</td> <td>L(28m)xW(7.15m)xH(4.35m)x1set</td> <td>I</td> <td>1</td>		Aeration Tank	L(28m)xW(7.15m)xH(4.35m)x1set	I	1
Main Sewer $\phi$ (300-500mm)x7,600 m $\phi$ 500mmx250mPrimary S.T $\phi$ 10mxH(4m)x2setPrimary S.T $\phi$ 10mxH(4m)x2setAeration Tank $\phi$ 10mxH(4m)x2setSecondary S.T $\phi$ 10mxH(4m)x2setPrimary S.T $\phi$ (300-1,000mm)x11,500 mMain Sewer $(22m)XW(11m)xH(5m)x1set$ Primary S.TL(22m)XW(11m)xH(5m)x1setAeration TankL(22m)XW(11m)xH(5m)x1setDrimary S.TL(42m)XW(11m)xH(5m)x1setAeration TankL(35m)XW(18m)xH(5m)x1setAeration TankL(35m)XW(18m)xH(3m)x1setDrimary S.T.L(21m)xW(9m)xH(3m)x2setAeration TankL(35m)XW(9m)xH(3m)x2setAeration TankL(25m)XW(18m)xH(5m)x1setSecondary S.T.Aeration TankCMain SewerAeration TankAeration TankL(21m)xW(16m)x2setAeration TankAeration TankAeration TankL(21m)xW(16m)x2setAeration TankL(21m)xW(16m)x2setAeration TankL(21m)xW(16m)x2setAeration TankAeration TankL(21m)xW(16m)xH(5m)x2set- </td <td></td> <td>Secondary S.T.</td> <td>L(28m)xW(3.6m)xH(4.4m)x1set</td> <td>4</td> <td>ĩ</td>		Secondary S.T.	L(28m)xW(3.6m)xH(4.4m)x1set	4	ĩ
Primary S.T $\phi$ 10mxH(4m)x2setAeration Tank $\phi$ 10mxH(4m)x2setAeration Tank $\phi$ 10mxH(4m)x2setSecondary S.T $\phi$ 10mxH(4m)x2setPrimary S.T $\phi$ (300-1,000mm)x31,500 m $\phi$ (300-600mm)x67,700 mPrimary S.T $\phi$ (300-1,000mm)x31,500 mAeration Tank $(22m)XW(11m)xH(5m)x1set$ Aeration TankL(22m)XW(11m)xH(5m)x1setAeration TankL(22m)XW(11m)xH(5m)x1setAeration TankL(22m)XW(11m)xH(5m)x1setAeration TankL(23m)xW(9m)xH(3m)x2setPrimary S.T.L(21m)XW(10.5m)x16m)x2setAeration TankSecondary S.T.L(35m)XW(18m)xH(3m)x1set-CMain SewerAeration TankSecondary S.TAeration TankAeration TankAeration TankAeration TankAeration TankL(21m)xW(6.5m)x4(5m)x2set-Aeration TankL(21m)xW(6.5m)x4(5m)x2set-Aeration TankL(21m)xW(6.5m)x4(5m)x2set-Aeration TankL(21m)xW(6.5m)x4(5m)x2set-Aeration TankL(21m)xW(7.5m)x2set-Aeration TankL(21m)xW(7.5m)x2set-Aeration Tank <td< td=""><td>Azuga</td><td>Main Sewer</td><td><i>ф</i> (300−500mm)x7,600 m</td><td>¢ 500mmx250m</td><td>¢ 500mmx250 m</td></td<>	Azuga	Main Sewer	<i>ф</i> (300−500mm)x7,600 m	¢ 500mmx250m	¢ 500mmx250 m
Aeration Tank       -       L(22m)XW(12m)k4(4m)x1set         Secondary S.T.       - $\phi$ (300-1.000mm)x11,500 m $\phi$ (300-500mm)x6,700 m         Primary S.T.       - $\phi$ (300-1.000mm)x11,500 m $\phi$ (300-500mm)x6,700 m         Primary S.T.       -       - $(27m)XW(11m)XH(5m)X1set$ Aeration Tank       -       -       L(27m)XW(11m)XH(5m)X1set         Aeration Tank       -       -       L(21m)XW(10m)XH(5m)X1set         Nain Sewer       -       -       L(22m)XW(11m)XH(5m)X1set         Primary S.T.       L(21m)XW(105m)XH(3m)X2set       L(22m)XW(11m)XH(5m)X1set         Aeration Tank       L(25m)XW(10m)XH(3m)X2set       L(35m)XW(11m)XH(5m)X1set         C       Main Sewer       -       -         Aeration Tank       L(25m)XH(5m)X6set       -       -         Aeration Tank       L(21m)XW(10m)XH(5m)X2set       -       -         Aeration Tank       L(21m)XW(5m)X6set       -       -       -         Aeration Tank       L(21m)XW(15m)X6set       -       -       -       -	•	Primary S.T.	I	ø 10mxH(4m)x2set	φ11mxH(4m)x2set
Secondary S.T $\phi$ 10mxH(4m)x2setMain Sewer $\phi$ (300-1,000mm)x11,500 m $\phi$ (300-600mm)x6,700 mPrimary S.T $\phi$ (300-500mm)x6,700 mPrimary S.TL(27m)XW(11m)xH(5m)x1setAeration TankSecondary S.TL(37m)XW(11m)xH(5m)x1setPrimary S.TL(37m)XW(11m)xH(5m)x1setAeration TankL(21m)XW(10.5m)xH(4m)x2set-Primary S.T.L(21m)XW(10.5m)xH(4m)x2set-Aeration TankL(35m)XW(9m)xH(3m)x2set-Secondary S.T.L(35m)XW(9m)xH(3m)x2set-Aeration TankL(35m)XW(9m)xH(3m)x2set-Secondary S.TAeration TankL(21m)XW(10m)xH(5m)x2set-Secondary S.TAeration TankSecondary S.TAeration TankSecondary S.TAeration TankAeration TankPrimary S.TAeration TankPrimary S.TAeration TankAeration TankAeration TankAeration TankAeration TankAeration TankArrinary S.TArrinary S.TArrinary S.TArrinary S.TAri		Aeration Tank	1	L(22m)XW(12m)xH(4m)x1set	L(24m)XW(12m)xH(4m)x1set
Main Sever         φ (300-1,000mm)x11,500 m         φ (300-600mm)x6,700 m           Primary S.T.         -         L(27m)XW(11m)xH(5m)x1set           Aeration Tank         -         L(37m)XW(11m)xH(5m)x1set           Aeration Tank         -         L(37m)XW(11m)xH(5m)x1set           Secondary S.T.         -         L(32m)XW(11m)xH(5m)x1set           Main Sever         Φ (250-400mm)x31,500 m         -           Primary S.T.         L(21m)XW(10.5m)xH(4m)x2set         L(35m)XW(11m)xH(5m)x1set           Primary S.T.         L(35m)XW(9m)xH(3m)x2set         -           Secondary S.T.         L(35m)XW(10.5m)xH(3m)x2set         -           Secondary S.T.         L(35m)XW(10.5m)x4(3m)x2set         -           C         Main Sever         -         -           Primary S.T.         -         -         -           Aeration Tank         -         -         -           Secondary S.T.         -         -         -           Aeration Tank         -         -         -           Primary S.T.         -         -         -           Aeration Tank         L(21m)xW(10m)xH(5m)x5set         -         -           Primary S.T.         -         -         -         -		Secondary S.T.	ł	ø 10mxH(4m)x2set	φ11mxH(4m)x2set
Primary S.TL(27m)XW(11m)xH(4.5m)x1setAeration Tank-L(39m)XW(11m)xH(5m)x1setSecondary S.TL(39m)XW(11m)xH(5m)x1setMain Sewer $\phi$ (250-400mm)x31,500 mL(42m)XW(11m)xH(5m)x1setPrimary S.T.L(21m)xW(10.5m)xH(3m)x2setL(42m)XW(11m)xH(5m)x1setPrimary S.T.L(35m)XW(105m)xH(3m)x2set-Reaction TankL(35m)XW(105m)xH(3m)x2set-Secondary S.T.L(35m)XW(105m)xH(3m)x2set-Rain SewerPrimary S.T.L(35m)XW(10m)xH(3m)x2set-Ration TankL(35m)XW(10m)xH(5m)x2set-Primary S.TAeration TankPrimary S.TAeration TankPrimary S.TAeration TankPrimary S.TAeration TankL(21m)xW(10m)xH(5m)x2set-Primary S.TAeration TankL(21m)xW(10m)xH(5m)x2set-Primary S.TAeration TankL(21m)xW(15m)x2set-Primary S.TAeration TankL(21m)xW(15m)x4set-Primary S.TAeration TankL(21m)xW(15m)xH(5m)x2set-Primary S.TAeration TankL(21m)xW(15m)xH(5m)x4set-Primary S.TAeration TankL(21m)xW(15m)XH(15m)XH(5m)xH(	Busteni	Main Sewer	ф (300-1,000mm)x11,500 m	<u>ф (300-600mm)x6,700 m</u>	ф (300-600mm)x6.700 m
Aeration Tank     -     L(39m)XW(11m)xH(5m)x1set       Secondary S.T.     -     L(42m)XW(11m)xH(5m)x1set       Main Sewer     \$		Primary S.T.	I	L(27m)XW(11m)xH(4.5m)x1set	L(27m)XW(16m)xH(4.5m)x1set
Secondary S.TL(42m)XW(11m)XH(5m)X1setMain Sewer $\phi$ (250-400mm)X31,500 m-L(42m)XW(11m)XH(5m)X1setPrimary S.T.L(21m)XW(10.5m)XH(4m)X2setAeration TankL(35m)XW(9m)XH(3m)X2setL(35m)XW(18m)XH(3m)X1setSecondary S.T.L(35m)XW(9m)XH(3m)X2set-Aeration TankL(35m)XW(9m)XH(3m)X2set-Secondary S.TAeration TankSecondary S.TAeration TankSecondary S.TAeration TankPrimary S.TAeration TankPrimary S.TAeration TankPrimary S.TAeration TankPrimary S.TAeration TankL(21m)XW(10m)XH(5m)X2set-Primary S.T. $\phi$ (300-500mm)X5,200 m-Aeration TankL(21m)XW(16m)XH(5m)X2set-Primary S.T. $\phi$ (300-800mm)X29,000 m $\phi$ 30mXH(3m)X1setAeration TankL(21m)XW(7,5m)X1set-Aeration TankL(21m)XW(7,5m)X1set-Aeration TankL(21m)XW(7,5m)X1set-Aeration TankA (300-800mm)X29,000 m $\phi$ 30mXH(3m)X1setAeration TankL(21m)XW(7,5m)X1set-Aeration TankA (300-800mm)X29,000 m $\phi$ 30mXH(3,5m)X1setAeration TankA (300-800mm)X29,000 m $\phi$ 30mXH(3,5m)X1set <td></td> <td>Aeration Tank</td> <td>1</td> <td>L(39m)XW(11m)xH(5m)x1set</td> <td>L(39m)XW(16m)xH(5m)x1set</td>		Aeration Tank	1	L(39m)XW(11m)xH(5m)x1set	L(39m)XW(16m)xH(5m)x1set
Main Sewer $\phi$ (250-400mm)x31,500 mPrimary S.T.L(21m)xW(10.5m)xH(4m)x2setPrimary S.T.L(21m)xW(10.5m)xH(4m)x2setAeration TankL(35m)xW(9m)xH(3m)x2setSecondary S.T.L(35m)xW(9m)xH(3m)x2setCMain SewerPrimary S.TAeration TankL(35m)xW(9m)xH(3m)x2setCMain SewerPrimary S.TAeration Tank-Secondary S.TAeration Tank-Aeration Tank-Aeration Tank-Primary S.TAeration Tank-Primary S.TAeration Tank-L(21m)xW(165m)x6set-Aeration TankL(21m)xW(15m)x2setAeration TankL(21m)xW(15m)x2setAeration TankL(21m)xW(15m)x2setAeration TankL(21m)xW(15m)x1setAeration TankL(21m)xW(15m)x1setAeration TankL(21m)xW(15m)x1setAeration TankL(21m)xW(15m)x1setAeration TankL(21m)xW(15m)x1setAeration TankL(41m)xW(75m)x1setAeration TankL(41m)xW(75m)x1setAeration TankL(41m)xW(75m)x1setAeration TankL(41m)xW(75m)x1set		Secondary S.T.	1	L(42m)XW(11m)xH(5m)x1set	L(42m)XW(16m)xH(5m)x1set
Primary S.T.     L(21m)xW(10.5m)xH(4m)x2set     -       Aeration Tank     L(35m)xW(9m)xH(3m)x2set     L(35m)xW(18m)xH(3m)xH(3m)xH(3m)xH(3m)xH(3m)xH(3m)xH(3m)xH(3m)xH(3m)xH(3m)xH(3m)xH(3m)xH(3m)xH(3m)x1set       c     Main Sewer     -     -       c     Main Sewer     -     -       Primary S.T.     -     -     -       c     Main Sewer     -     -       Primary S.T.     -     -     -       Aeration Tank     -     -     -       Secondary S.T.     -     -     -       Main Sewer     -     -     -       Main Sewer     -     -     -       Aeration Tank     L(21m)xW(10m)xH(5m)x2set     -     -       Primary S.T.     -     -     -       Main Sewer     -     -     -       Aeration Tank     L(21m)xW(10m)xH(5m)x2set     -     -       Secondary S.T.     -     -     -       Main Sewer     -     -     -     -       Main Sewer     -     -     -     -       Main Sewer     -     -     -     -       Aeration Tank     L(21m)xW(10m)xH(5m)x2set     -     -       Primary S.T.     -     -     - <td< td=""><td>Sinaia</td><td>Main Sewer</td><td>ф (250-400mm)x31,500 m</td><td></td><td>¢ 300mmx1,500 m</td></td<>	Sinaia	Main Sewer	ф (250-400mm)x31,500 m		¢ 300mmx1,500 m
Aeration Tank     L(35m)xW(3m)xH(3m)x2set     L(35m)XW(18m)xH(3m)x1set       Secondary S.T.     L(35m)xW(9m)xH(3m)x2set     L(35m)XW(18m)xH(3m)x1set       C     Main Sewer     -     -       Primary S.T.     -     -     -       Aeration Tank     -     -     -       Secondary S.T.     -     -     -       Aeration Tank     -     -     -       Secondary S.T.     -     -     -       Aeration Tank     -     -     -       Primary S.T.     -     -     -       Secondary S.T.     -     -     -       Secondary S.T.     -     -     -       Main Sewer     -     -     -       Main Sewer     -     -     -       Aeration Tank     L(21m)xW(10m)xH(5m)x2set     -     -       Secondary S.T.     -     -     -       Main Sewer     -     -     -       Primary S.T.     -     -     -       L(21m)xW(6.5m)xH(5m)x2set     - <t< td=""><td></td><td>Primary S.T.</td><td>L(21m)xW(10.5m)xH(4m)x2set</td><td></td><td>L(21m)XW(2.5m)xH(4m)x1set.</td></t<>		Primary S.T.	L(21m)xW(10.5m)xH(4m)x2set		L(21m)XW(2.5m)xH(4m)x1set.
Secondary S.T.L(35m)xW(9m)xH(3m)x2set-cMain Sewer-L(35m)xW(9m)xH(3m)x2setPrimary S.TAeration TankSecondary S.TAeration TankSecondary S.TAeration TankSecondary S.TAeration TankPrimary S.T. $\phi$ (300-500mm)x5,200 m-Main Sewer $\phi$ (300-500mm)x5,200 m-Aeration TankL(21m)xW(10m)xH(5m)x2set-Aeration TankL(21m)xW(10m)x29,000 m $\phi$ 30mxH(3m)x1 setMain Sewer $\phi$ (300-800mm)x29,000 m $\phi$ 30mxH(3m)x1 setAeration TankL(41m)xW(7.5m)xH(3m)x1 set-Aeration TankL(41m)xW(7.5m)xH(3m)x1 set-Aeration TankL(41m)xW(7.5m)xH(3.5m)x1 set $\phi$ 30mxH(3.5m)x1 set		Aeration Tank	L(35m)xW(9m)xH(3m)x2set	L(35m)XW(18m)xH(3m)x1set	L(35m)XW(21m)xH(3m)x1set
c     Main Sewer     -     -     -       Primary S.T.     -     -     -     -       Aeration Tank     -     -     -     -       Aeration Tank     -     -     -     -       Main Sewer     φ(300-500mm)x5,200 m     -     -     -       Main Sewer     φ(300-800mm)x29,000 m     -     -     -       Main Sewer     φ(300-800mm)x29,000 m     φ(300-800mm)x29,000 m     -     -       Main Sewer     φ(300-800mm)x29,000 m     φ(300-800mm)x29,000 m     -     -       Primary S.T.     L(21m)xW(5m)x2set     -     -     -       Main Sewer     φ(300-800mm)x29,000 m     φ(300-800mm)x29,000 m     -     -       Primary S.T.     L(21m)xW(5m)x18et     -     -     -       Aeration Tank     L(41m)xW(7,5m)xH(3m)x1set     -     -       Aeration Tank     L(41m)xW(7,5m)x18et     -     -		Secondary S.T.	L(35m)xW(9m)xH(3m)x2set	9	
Primary S.TAeration Tank-Aeration Tank-Secondary S.TBain Sewer $\phi (300-500 \text{mm})x5,200 \text{ m}$ Main Sewer $\phi (300-500 \text{mm})x5,200 \text{ m}$ Primary S.T. $\phi (300-500 \text{mm})x5,200 \text{ m}$ Aeration Tank $L(21\text{m})xW(10\text{m})x45\text{m})x2set$ Aeration Tank $L(21\text{m})xW(5\text{m})x2set$ Aeration Tank $L(21\text{m})xW(5\text{m})x2set$ Aeration Tank $L(21\text{m})xW(5\text{m})x2set$ Main Sewer $\phi (300-800\text{mm})x29,000 \text{ m}$ Primary S.T. $\phi (300-800\text{mm})x29,000 \text{ m}$ Aeration Tank $L(41\text{m})xW(7.5\text{m})xH(3\text{m})x1set$ Aeration Tank $L(41\text{m})xW(7.5\text{m})x1set$ Aeration Tank $L(41\text{m})xW(7.5\text{m})x1set$ Aeration Tank $L(35\text{m})x1set$ Aeration Tank $L(35\text{m})x1set$ Aeration Tank $L(35\text{m})x1set$ Aeration Tank $L(35\text{m})x1set$	Comarnic	Main Sewer		*	ф 400mmx2,700m
Aeration Tank-Secondary S.TSecondary S.TMain Sewer $\phi$ (300-500mm)x5,200 mPrimary S.T. $\phi$ (300-500mm)x5,200 mPrimary S.T. $\phi$ (300-500mm)x5,200 mPrimary S.T. $\phi$ (300-500mm)x2setAeration TankL(21m)xW(10m)xH(5m)x2setL(21m)xW(6.5m)xH(5m)x2set-Secondary S.T.L(21m)xW(6.5m)xH(5m)x2setMain Sewer $\phi$ (300-800mm)x29,000 mPrimary S.T. $\phi$ (300-800mm)x200 mPrimary S.T. $\phi$ (300-800mm)x200 mPrimary S.T. $\phi$ (300-800mm)x		Primary S.T.	ĩ	I	ø 9mxH(4m)x2set
Secondary S.TMain Sewer $\phi$ (300-500mm/x5,200 mMain Sewer $\phi$ (300-500mm/x5,200 mPrimary S.T. $\phi$ (300-500mm/x5,200 mAeration TankL(21m)xW(10m)xH(5m)x2setL(21m)xW(10m)xH(5m)x2set-Secondary S.T.L(21m)xW(6.5m)xH(5m)x2setMain Sewer $\phi$ (300-800mm)x29,000 mMain Sewer $\phi$ (300-800mm)x29,000 mPrimary S.T. $\phi$ (300-800mm)x29,000 mParation TankL(41m)xW(7,5m)xH(3.5m)x1setAeration TankL(41m)xW(7,5m)xH(3.5m)x1setSecondary S.T. $\phi$ 30mxH(3.5m)x1setAeration TankL(50m)xW(3.5m)x1setSecondary S.T. $\phi$ 30mxH(3.5m)x1set		Aeration Tank	1	ŀ	L(16m)XW(18m)xH(4m)x1set
Main Sewer $\phi$ (300-500m/x5,200 mPrimary S.T. $\phi$ 7.5mxH(5m)x6setPrimary S.T. $\phi$ 7.5mxH(5m)x2setAeration TankL(21m)xW(10m)xH(5m)x2setAeration TankL(21m)xW(10m)xH(5m)x2setSecondary S.T.L(21m)xW(15m)x2setMain Sewer $\phi$ (300-800mm)x29,000 mPrimary S.T. $\phi$ 25mxH(3m)x1setAeration TankL(41m)xW(7.5m)xH(3.5m)x2setAeration TankL(41m)xW(7.5m)x1setAeration TankL(41m)xW(7.5m)x1setSecondary S.T. $\phi$ 30mxH(3.5m)x1set		Secondary S.T.	i It	•	ø 9mxH(4m)x2set
Primary S.T. $\phi$ 7.5mxH(5m)x6set-Primary S.T. $\phi$ 10mxH(5m)x2set-Aeration TankL(21m)xW(10m)xH(5m)x2set-Secondary S.T.L(21m)xW(6.5m)xH(5m)x2set-Main Sewer $\phi$ (300-800mm)x29,000 m $\phi$ 30mxH(3m)x1setPrimary S.T. $\phi$ (300-800mm)x29,000 m $\phi$ 30mxH(3m)x1setAeration TankL(41m)xW(7.5m)xH(3.5m)x2setL(50m)xW(36m)xH(4m)x1setSecondary S.T. $\phi$ 30mxH(3.5m)x1set $\phi$ 30mxH(3.5m)x1set	Breaza	Main Sewer	ф (300-500mm)х5,200 m	1	¢ 300mmx1,300m
$\phi$ 10mxH(5m)x2set $-$ Aeration TankL(21m)xW(10m)xH(5m)x2set $-$ Secondary S.T.L(21m)xW(6.5m)xH(5m)x2set $-$ Main Sewer $\phi$ (300-800mm)x29,000 m $\phi$ 30mxH(3m)x1setPrimary S.T. $\phi$ 25mxH(3m)x1set $b$ 30mxH(3m)x1setAeration TankL(41m)xW(7.5m)xH(3.5m)x2setL(50m)xW(36m)xH(4m)x1setSecondary S.T. $\phi$ 30mxH(3.5m)x1set $\phi$ 30mxH(3.5m)x1set		Primary S.T.	ø 7.5mxH(5m)x6set	B	1
Aeration TankL(21m)xW(10m)xH(5m)x2set-Secondary S.T.L(21m)xW(6.5m)xH(5m)x2set-Main Sewer $\phi$ (300-800mm)x29,000 m-Main Sewer $\phi$ (300-800mm)x29,000 m $\phi$ 30mxH(3m)x1setPrimary S.T. $\phi$ 25mxH(3m)x1set-Aeration TankL(41m)xW(7.5m)xH(3.5m)x2setL(50m)xW(36m)xH(4m)x1setSecondary S.T $\phi$ 30mxH(3.5m)x1set $\phi$ 30mxH(3.5m)x1set			ø 10mxH(5m)x2set	ŀ	1
Secondary S.T.         L(21m)xW(6.5m)xH(5m)x2set         -           Main Sewer $\phi$ (300-800mm)x29,000 m         -           Primary S.T. $\phi$ (300-800mm)x29,000 m $\phi$ 30mxH(3m)x1set           Primary S.T. $\phi$ 25mxH(3m)x1set $b$ 30mxH(3m)x1set           Aeration Tank         L(41m)xW(7.5m)xH(3.5m)x2set         L(50m)xW(36m)xH(4m)x1set           Secondary S.T. $\phi$ 30mxH(3.5m)x1set $\phi$ 30mxH(3.5m)x1set		Aeration Tank	L(21m)xW(10m)xH(5m)x2set	1	1
Main Sewer $\phi$ (300-800mm)x29,000 m         -           Primary S.T. $\phi$ 25mxH(3m)x1set $\phi$ 30mxH(3m)x1set           Primary S.T. $\phi$ 25mxH(3m)x1set $\phi$ 30mxH(3m)x1set           Aeration Tank         L(41m)xW(7,5m)xH(3.5m)x2set         L(50m)xW(36m)xH(4m)x1set           Secondary S.T $\phi$ 30mxH(3.5m)x1set $\phi$ 30mxH(3.5m)x1set	<u>-</u>	Secondary S.T.	L(21m)xW(6.5m)xH(5m)x2set	I	
φ 25mxH(3m)x1set         φ 30mxH(3m)x1set           L(41m)xW(7.5m)xH(3.5m)x2set         L(50m)xW(36m)xH(4m)x1set           ø 30mxH(3.5m)x1set         ø 30mxH(3.5m)x1set	Cimpina	Main Sewer	ф (300-800mm)x29,000 m		<u>ф (300-600mm)x4,900m</u>
L(41m)xW(7.5m)xH(3.5m)x2set L(50m)xW(36m)xH(4m)x1set & 30mxH(3.5m)x1set & & 30mxH(3.5m)x1set	-	Primary S.T.	φ 25mxH(3m)x1 set	ø 30mxH(3m)x1set	\$ 38mxH(3m)x1set
6 φ 30mxH(3.5m)x1set φ 30mxH(3.5m)x1set		Aeration Tank	L(41m)xW(7.5m)xH(3.5m)x2set	L(50m)xW(36m)xH(4m)x1set	L(51m)xW(36m)xH(4m)x1set
		Secondary S.T.	φ 30mxH(3.5m)x1set	ø 30mxH(3.5m)x1set	<b>ø</b> 37mxH(3.5m)x1set

(2/2)
Facilities
Sewerage
<b>Propsed</b>
Features of
Salient
Table 7.4

Municipality	Facilities	Existing	Additional Facilities	Additional Facilities
			without Sewer Extension	with Sewer Extension
Baicoi	Main Sewer	φ (300-400mm)x8,450 m	8	¢ (300−400mm)x2,800m
	Primary S.T.	ø 8mxH(5m)x4set	ł	ø 8mxH(5m)x2set
	Aeration Tank	L(16m)xW(9m)xH(5m)x1set	L(16m)xW(9m)xH(5m)x1set	L(21m)xW(9m)xH(5m)x1set
	Secondary S.T.	ø 10mxH(5m)x1set	ø 10mxH(5m)x1set	ø 14mxH(5m)x1set
Plopeni	Main Sewer	φ (300-500mm)x7,800 m		¢ 300mmx600m
۰ -	Primary S.T.	ø 8mxH(5m)x6set	F	ø 12mxH(5m)x1set
	Aeration Tank	L(16m)xW(16m)xH(5m)x1set	L(16m)xW(16m)xH(5m)x2set	L(17m)xW(16m)xH(5m)x2set
	Secondary S.T.	♦ 12mxH(5m)x2set	ø 12mxH(5m)x2set	¢ 13mxH(5m)x2set
Slanic	Main Sewer	φ300x4,000 m		ф 300mmx2,000m
	Primary S.T.	∲ 10mxH(5m)x2set	1	1
	Aeration Tank	L(16m)xW(8m)xH(5m)x1set	ł	1
	Secondary S.T.	\$ 7mxH(5m)x1set	ø 7mxH(5m)x1set	φ 8.5mxH(5m)x1set
Valenii de	Main Sewer	φ 500mmx8,300 m	1	¢ 500mmx1,700m
Munte	Primary S.T.	ф 25mxH(4m)x1set	ł	1
	Aeration Tank	L(24m)xW(14m)xH(4m)x1set	I	I
	Secondary S.T.	<b>φ</b> 25mxH(4m)x1set	-	-
Boldesti	Main Sewer	ф (300-500mm)x8,500 m	**	ф 300mmx1,600m
Scaieni	Primary S.T.	ø 8mxH(5m)x4set	ł	1
	Aeration Tank	L(20m)xW(10m)xH(5m)x2set	I	\$
	Secondary S.T.	L(20m)xW(6.5m)xH(5m)x2set	-	1
Urlati	Main Sewer	\$\phi(300-600mm)x3,000 m	<b>.</b>	¢ (300-600mm)x2,000m
	Primary S.T.	ø 9mxH(5m)x4set	ł	ŧ
<u>-</u>	Aeration Tank	L(20m)xW(10m)xH(5m)x1set	i	L(4m)xW(10m)xH(5m)x1set
	Secondary S.T.	L(20m)xW(6.5m)xH(5m)x1set	8	L(8m)xW(6.5m)xH(5m)x1set
Ploiesti	Main Sewer	ф (900-3,000mm)x103.700 m	~	¢ (900-1,200mm)x6,000m
	Primary S.T.	ø 30mxH(3.5m)x4set	Ø 45mxH(3.5m)x3set	ф 46mxH(3.5m)x3set
	Aeration Tank	I	L(110m)xW(120m)xH(5m)x1set	L(114m)xW(120m)xH(5m)x1set
	Secondary S.T.	1	φ 50mxH(3.5m)x5set	ø 51 mxH(3.5m)x5set

(Without Sewer Ex	stension)					(unit : 1,0	00US\$)
Municipality	Rehabi	litation/Const	truction Co	st	Annu	al O&M Co	st
	Rehabilitation	Treatment Plant	Sewer	Total	Treatment Plant	Sewer	Total
Predeal	*	-	-	-	34	4	38
Azuga	-	839	39	878	32	4	35
Busteni	-	1,246	1,007	2,253	50	6	56
Sinaia	139	1,148	-	1,287	122	14	135
Convernic	-	-	-	-	-	+	· -
Breaza	449	56	-	505	78	9	87
Cimpina	356	2,963	-	3,319	219	24	243
Baicoi	1,025	870	-	1,896	51	6	57
Plopeni	748	1,970	-	2,718	117	13	130
Slanic	584	184	-	767	17	2	18
Valenii de Munte	823	26	-	849	24	3	26
Boldesti Scaieni	199	26	-	225	40	4	45
Urlati	381	284	-	665	34	4	37
Ploiesti	1,164	19,569	-	20,733	1,335	148	1,483
Floresti	116		-	345	19	2	21
Maneciu	39	78	-	117	6	. 1	7
Total	6,024	29,487	1,046	36,557	2,178	242	2,420

### Table 7.5 Project Cost for Sewerage Development

(With Sewer Extension)

(Unit : 1,000US\$)

(With Sewer Exten Municipality		ation/Cons	struction Co	ost	Ann	ual O&M C	1,000US\$) Cost
	Rehabilitation T		Sewer	Total	Treatment Plant	Sewer	Total
Predeal	<u> </u>	-	79	79	37	4	41
Azuga	-	884	51	935	33	4	37
Busteni	-	1,709	1,251	2,960	- 61	7	68
Sinaia	139	1,233	216	1,588	131	15	146
Comarnic	•	761	490	1,251	28	3	31
Breaza	449	64	205	717	89	10	99
Cimpina	356	3,605	952	4,913	267	30	296
Baicoi	1,025	1,158	519	2,702	61	7	67
Plopeni	748	2,047	94	2,889	122	14	135
Slanic	584	221	315	1,119	20	2	22
Valenii de Munte	823	43	375	1,241	32	4	36
Boldesti Scaieni	199	- 29	252	480	45	5	50
Urlati	381	377	453	1,212	55	6	61
Ploiesti	1,164	20,074	2,873	24,112	1,369	152	1,522
Floresti	116	230	-	345	19	2	21
Maneciu	39	78		117	6	1	7
Total	6,024	32,512	8,124	46,660	2,375	264	2,639

			Trail	DISCRATESC		Standard	Standard Effluent Quality (mg/l)		Development   I otal Kenab. /	(oral Kenao, /
		Body	ment	(m3/d)	BOD 20(300)	BOD SS COD 20(300) 60(300) 40(500*)	OIL CN Phenol Cd D <sup>**</sup> ) 5(20) 0.05(0.5) 0.05(30) 0.1(0.1)	1 Cd 0.1(0.1)	Measures	Const.Cost (USS 1.000)
4106A REAL PLEASA	Basic Metals	River	8	1,610	20.7	252.7	22.6		Rehab.	71
4112A ARPACOR	Chemical Products	River	0/M	+64			5.2		Const.	23
4103A SOCERAM BUCOV	Construction Material	River	AS	646		124.8	8.8		Rehab.	56
SOCERAM BUCOV	Construction Material	River	AS	58			14.1		Rehab.	6
4150A MATIZOL	Construction Material	River	AS	1,554	56.7	214.4			Rehab.	717
4209A PREFABRICATE BLEJOI	Construction Material	River	SA	141	35.2				Rehab.	21
T.C.I.PLOIESTE	Construction Material	River	0/M	3	22.0				Const.	17
SOCIETATEA COMERCIALA AF Construction Material	Construction Material	River	0/M	32	22.0				Const.	₽⊣
SOCIETATEA COMERCIALA AF Construction Material Sub-total	F Construction Material	River	O/M	58	22.0				Const.	540 240
4005A SCOALA AJUTATOARE FILIPES Education	Education	River	0/M	22	50.0				Const.	168
4166A MANASTIREA SUZANA	Education	River	AS	18	46.6				Const.	:53
4566B GR.SC.CIMPINA	Education	River	AS	83 83	46.6				Const.	631
Sub-total	:									952
4033A S.C.CONCORDIA S.A.	Electrical	River	8	222	1,555.2			R	Rehab./Const.	1,204
4554A ELECTROUTILAI	Electrical	Domestic S.	8	54 242	1.555.2			<u> </u>	Rehab./Const.	1.079
Sub-total								·		2,283
4047A F.E.PLOIESTI	Electricity/Gas Supply	River	g	40,440	25.5	283.9	21.6	R	Rehab/Const.	214
4006A BERE AZUGA	Food/Beverage	River	AS	2,197	51.7	196.9	23.8		Rchab.	32
4020A SALSI SINAIA	Food/Beverage	Domestic S.	AS	534	749.3			<u></u>	Rehab/Const.	1,240
4094A PROLA-PLOIESTI	Food/Beverage	Domestic S.	AS	940	749.3			~	Rehab/Const.	2,127
4115A I.C.V.V.VALEA DE MUNTE	Food/Beverage	River	AS	123	48.2			<u>x</u>	Rehab/Const.	385
4136A S.C. VINALCOOL S.A. PRAHOV. Food/Beverage	. Food/Beverage	Domestic S.	AS	S S	749.3			<u>R</u>	Rehab/Const.	752
S.C.VINALCOOL PRAHOVA	Food/Beverage	River	0/M	365	31.2				Const.	22
4139A EXTRAPAN SEDIU	Food/Beverage	Domestic S.	AS	160	749.3			~	Rehab/Const.	111
EXTRAPAN SEDIU	Food/Beverage	River	AS	118	49.9			<u>a</u>	Rehab/Const.	381
I.N.C.A.F.PLOTESTI	Food/Beverage	Domestic S.	AS	868	1,011.2				Rebab.	64
VIDELMAR SEDIU	Food/Beverage	Domestic S.	AS	177	749.3			<u>~</u>	Rehab/Const.	505
CONSERVE MAGURELE	Food/Beverage	River	AS	1,381	49.9			<u> </u>	Rehab./Const.	2.911
COCA COLA PLOIESTI	Food/Beverage	Domestic S.	AS	1,013	487.2				Rehab.	11
AGROCOM PLOTESTE	Food/Beverage	Domestic S.	8	130	749.3			<u></u> <u>x</u>	Rehab./Const.	11 1 1

Table 7.6Wastewater Treatment Development of Industrial Establishments (1/3)

Table 7.6 Wastewater Treatment Development of Industrial Establishments (2/3)

SS     COD     Coil     CN     Phenol     Cd     Measures       0     60(300) 40(500°) 5(20)     0.05(0.5)     0.05(30)     0.1(0.1)     Const.       2     193.6     125.1     Const.     Const.     Const.       2     356.8     133.4     Const.     Const.       2     356.8     133.4     Const.     Const.       2     0     Const.     Const.     Const.       3     356.8     133.4     Const.     Const.       2     2     210.9     22.1     Rehab/Const.       0     0     Const.     Const.     Const.       0     1     210.9     22.1     Rehab/Const.       0     5     8.3     Const.     Const.       0     67.8     8.3     Const.     Const.       1     296.0     14.4     Rehab.     Rehab.       1     296.0     14.4     Const.     Const.       1     296.0     14.4     Const.     Const.       96.6     6.6     0.574     0.19     Rehab.	Code Name of Factory	Activity	Receiving	Treat-	Discharge		Stan	dard Efflue	Standard Effluent Quality (mg/l)		Development	Total Rehab. /
400A SFITAUL HLIPESTI TAKG     Hathroscial Work     River     W0     39     2000     125.1     Const.       400A SFITAUL HLIPESTI TAKG     Heathroscial Work     River     X5     37     256.1     364.1     17.5     94     Const.       409A SFIT. JBC.DRANNA     Heathroscial Work     River     X5     37     256.1     364.1     77.5     94     Const.       409A SFIT. JBC.DRANN     Heathroscial Work     River     X5     37     356.8     133.4     Const.       490A SFIT. JBC.DRANN     Heathroscial Work     River     X5     37     356.8     133.4     Const.       490A SFIT. VOLIA     Heathroscial Work     River     X5     37     356.8     133.4     Const.       491A SFIT. VOLIA     Heathroscial Work     River     X5     37     356.8     133.4     Const.       491A SCTAN     Hour Kestantati     River     X5     37     356.8     133.4     Const.       494A SCTAN     Heathroscial Work     River     X5     37     356.0     Const.       494A SCTAN     Hour Kestantati     River     X5     37     356.0     Const.       494A SCTAN LOSAN     Heathroscial Work     River     X5     376.0     Const. <tr< th=""><th></th><th></th><th>Body</th><th>ment</th><th>•</th><th></th><th>SS 50(300) 4</th><th>0(500*) 5(</th><th>)il CN Pheno 20) 0.05(0.5) 0.05(3</th><th>ol Cd 30) 0.1(0.1</th><th></th><th>Const.Cost (USS 1.000)</th></tr<>			Body	ment	•		SS 50(300) 4	0(500*) 5(	)il CN Pheno 20) 0.05(0.5) 0.05(3	ol Cd 30) 0.1(0.1		Const.Cost (USS 1.000)
4010A     SETTALUE ANUMA     Health Social Work     River     AS     193     157.2     193.6     125.1     204.6     Const.       493A     SETTAL EXCRONANC     Health Social Work     River     AS     13     155.2     284.4     17.5     9.4     Const.       493A     SETTAL EXC DNUMA     Health Social Work     River     AS     13     155.2     284.4     17.5     9.4     Const.       493A     SETTAL INE XATA     Health Social Work     River     AS     23     155.2     23.6     13.4     Const.       493A     SETTAL INE XATA     Health Social Work     River     AS     13     190.0     Const.       493A     CONTACT     Health Social Work     River     AS     13     190.0     Const.       404A     CABNUT     Health Social Work     River     AS     13     190.0     Const.       401A     CERRUL STANA     Hore/Restaurant     River     AS     13     190.0     Const.       401A     CERRUL STANA     Hore/Restaurant     River     AS     13     190.0     Const.       401A     CERRUL STANA     Hore/Restaurant     River     AS     13     190.0     Const.       401A     CE		Health/Social Work	River	0/M		200.0					Const.	305
<ul> <li>403A SETT LEC IDAUNG</li> <li>404A CONTUCT DE AUTANUM MISL. BendbSocial Work</li> <li>8155 2 856 147.5 9.4 Const.</li> <li>423A SECTA EXTERIOLAC CONNTHENDSOGIA Work</li> <li>8155 2 833 153 153</li> <li>423A SECTA EXTERIOLACIONAN MISL. BendbSocial Work</li> <li>8155 2 833 153 153</li> <li>433A SECTA EXTERIOLACIONAN MISL. BendbSocial Work</li> <li>8155 2 834 433 356 8 1334</li> <li>433A STFLU VOILA</li> <li>46ath/Social Work</li> <li>8155 2 844 433 356 8 1334</li> <li>46ath/Social Work</li> <li>8155 2 844 433 356 8 1334</li> <li>46ath/Social Work</li> <li>816 1900</li> <li>816 1900</li> <li>817 1900</li> <li>818 1</li></ul>		Health/Social Work	River	AS	198	157.2	193.6	125.1			Const.	1.043
<ul> <li>433A, SCITA, EXTEROLAR CIORAN Health/Social Work River AS 391 155.2</li> <li>433A, STRTA, BRZAZ, MISLE Health/Social Work River AS 77 155.2</li> <li>493A, SFITAL, BRZAZ, Health/Social Work River AS 77 155.2</li> <li>493A, SFITAL, NOLLA Health/Social Work River AS 77 155.2</li> <li>493A, SFITAL, BRZAZ, Health/Social Work River AS 77 155.2</li> <li>493A, SFITAL, BRZAZ, Health/Social Work River AS 142 1900</li> <li>403A, SCARDTANA, Hote/Restaurant River AS 131 1900</li> <li>403A, SCARDTANA, Hote/Restaurant River AS 131 1900</li> <li>403A, SCARDA, FOLDERT</li> <li>404A, SECTIA LP, DOLSFIT</li> <li>404A, SECTIA LP, DOLSFIT</li> <li>404A, SECTIA LP, MUZEAL</li> <li>405A, COMPORA, STANCESTI Livestock River AS 73 13900</li> <li>404A, SECTIA LP, DOLSFIT</li> <li>404A, SECTIA LP, DOLSFIT</li> <li>405A, COMPORA, STANCESTI Livestock River AS 73 13900</li> <li>404A, SECTIA LP, DOLSFIT</li> <li>405A, COMPORA, STANCESTI Livestock River AS 73 13900</li> <li>405A, COMPORA, STANCESTI Livestock River AS 73 13900</li> <li>405A, COMPORA, STANCESTI Livestock River AS 73 13900</li> <li>414A, SECTIA LI, PLOIESTI</li> <li>414A, SECTIA LIVANTA, Livestock River AS 73 13900</li> <li>414A, SECTIA LIVANTA, Livestock River AS 73 13900</li> <li>414A, SCAGRONPOUSTRAL, Livestock River AS 73 13900</li> <li>414A, SCAGRONPOUSTRAL, Livestock River AS 73 13900</li> <li>414A, SCAGRONPOUSTRAL, Livestock River CO 3067 381</li> <li>414A, SCAGRONPOUSTRAL, Livestock River CO 3107 361</li> <li>414A, SCAGRON PLOTESTE, Machinery/Equinent River CO 3107 381</li> <li>414A, SCAGRON PLOTESTE, Machinery/Equinent River CO 3107 361</li> <li>414A, SCAGRON PLOTESTE, Machinery/Equinent River CO 3107 361</li> <li>414A, SCAGRON PLOTESTE, Machinery/Equinent River CO 3107 381</li> <li>414A, SCAGRON PLOTESTE, Machinery/Equinent River CO 3107 381</li> <li>414A, SCAGRON PLOTESTE, Machinery/Equinent River CO 3107 361</li> <li>414A, SCAGRON PLOTESTE, Machinery/Equinent River CO 3107 381</li> <li>414A, SCAGRON PLOTESTE, Machinery/Equinent River CO 3107 381</li> <li>414A</li></ul>	4092A SPIT. T.B.C. DRAJNA	Health/Social Work	River	AS	37	265.1	298.4	147.5	9.4		Const.	281
4507.A CANTUL DE BATRANI MISLE Heah/Social Work River AS 234 433 3568 133.4 Const. 4593.8 FTAL REEAT Reads. Not River AS 433 155.2 Const. 4593.8 FTAL PLEAT Real Resonant Work River AS 439 155.2 Const. 4593.8 FTAL VOLA. Heah/Social Work River AS 132 1900 Const. 4503.8 CANTRAN A Hotel/Renarmat River AS 131 1900 Const. 4516.0 CANFLEX MUZEAL POSADA Hotel/Renarmat River AS 131 1900 Const. 432.8 CANTRAN CDMPLET Land Transport River AS 131 1900 Const. 432.8 CANTRAN CONTURTED Land Transport River AS 131 1900 Const. 432.8 CANTRAN FILE POSADA Hotel/Renarmat River AS 131 1900 Const. 432.8 CANTRAN FILE POSADA Hotel/Renarmat River AS 131 1900 Const. 432.8 CANTRAN FILE POSADA Hotel/Renarmat River AS 131 1900 Const. 432.8 CANTRAN FILE POSADA Hotel/Renarmat River AS 131 1900 Const. 432.8 CANTRON/FILE POSADA Hotel/Renarmat River AS 131 1900 Const. 432.8 CANTRAN FILE POSADA Hotel/Renarmat River AS 131 1900 Const. 432.8 CANTRON/FILE POSADA Hotel/Renarmat River AS 137 100 Const. 432.8 CARRON PURSTRAL Livencie: River AS 137 767.0 Const. 471.9 CARRON FILE POSATA Hotel/Renarmat River AS 137 767.0 Const. 471.1 A Livencie: River WO 540 196.1 A Rehb. 471.1 A Livencie: River WO 540 196.1 A Rehb. 471.1 A LIVIU-AET MachineryEquinent River CO 3087 351.1 Rehb. 471.1 A LIVIU-AET MachineryEquinent River CO 3087 351.2 B Livie Rehb. 471.1 A LIVIU-AET MachineryEquinent River CO 3087 351.2 B Livie Rehb. 471.1 A LIVIU-AET MachineryEquinent River CO 3087 351.2 B Livie B Rehb. 471.1 A LIVIU-AET MachineryEquinent River CO 3087 351.2 B Livie B Rehb. 471.1 A LIVIU-AET MachineryEquinent River CO 3087 351.2 B Livie B Rehb. 472.1 A LIVIU-AET MachineryEquinent River CO 3087 351.2 B Livie B Livi	4239A SECTIA EXTERIOARA CIOR	LAN] Health/Social Work	River	AS	18	155.2					Const.	153
491A SFITAL BREAZA Health/Social Work River AS 97 155.2 Const. 493A STITAL VOLLA Health/Social Work River AS 142 1900 2016A CERBUL SINAA Hore/Restaurant River AS 131 1900 232A COMPLEX MUZEAL POSADA Hore/Restaurant River AS 131 1900 233A COMPLEX MUZEAL POSADA Hore/Restaurant River AS 131 1900 2440A SKTTA L6 PLOIESTI Lawenck River AS 132 76/10 2440A SKTTA L6 PLOIESTI Lawenck River AS 132 76/10 2440A SKTTA L6 PLOIESTI Lawenck River AS 132 76/10 2450A SCAGRONDUSTRIAL Livenock River AS 132 76/10 250A COMPLEX MUZEAL POSADA 4773A COMPREX RAZI Livenock River AS 197 76/10 270A SCAGRONDUSTRIAL Livenock River AS 197 76/10 270A SCAGRONDUSTRIAL Livenock River AS 197 76/10 270A SCAGRON SCAENI Livenock River AS 197 76/10 270A SCAGRONDUSTRIAL Livenock River AS 197 76/10 270A SCAGRON SCAENI Livenock River CO 236 673 8.3 414A 241ANUARE MAADINEYEquinent Diner (CO 110 381 284) 414A 241ANUARE MAADINEYEquinent Diner River CO 246 466 188 108 414A 241ANUARE MAADINEYEquinent River CO 246 466 308 1381 2660 1468 108 280A 4000 UFTRON MAADINEYEquinent Dinered S. CO 253 8.4 414A 241ANUARE MAADINEYEquinent Dinered S. CO 253 8.4 414A 241ANUARE MAADINEYEquinent Dinered S. CO 253 8.4 414A 241ANUARE MAADINEYEquinent Dinered S. CO 253 9.65 6.65 1.65 1.65 1.65 1.65 1.65 1.65 1		SLE. Health/Social Work	River	AS	284	43.3	356.8	133.4			Const.	1,414
4933 SFITAL VOLIA Health/Social Work River AS 142 1900 Subordal Hote/Restaurant River AS 142 1900 COSEL DOHUTANA Hote/Restaurant River AS 191 1900 COSEL DOHUTANA Hote/Restaurant River AS 191 1900 COSEL DOHUTANA Hote/Restaurant River AS 192 7670 COSEL DATA AVICOLA PLOIESTE Livestock River AS 197 7670 COSEL DATA AVILENTE Machiner/Rejument River CO 253 AUALENTE Machiner/Rejument River CO 253 AUALENTE Machiner/Rejument River CO 213 38.1 2910 146.8 10.8 Rehab ASOA CONFLOR AVILENTE Machiner/Rejument River CO 255 Suctad Suctad ACA AVILENTE Machiner/Rejument River CO 255 Suctad ACA AVILENTE MACHINER River CO 255 Suctad ACA AVILENTE MACHINER/Rejument River CO 255 Suctad ACA AVILENTE MACHINER RIVER CO 255 Suctad ACA AVILENTE MACHINER RIVER CO 255 Suctad ACA AVILENTE MACHINER RIVER CO 255 SUC AVILENTE AVILINA MACHINER RIVER CO 255 SUC AVIECTOR AVILENTE AVILIA MACHINER RIVER CO 255 SUC AVIECTOR AVILENTE AVILIA MACHINER RIVER CO 255		Health/Social Work	River	AS	97	155.2					Const.	594
Sub-total         Sub-total <t< td=""><td></td><td>Health/Social Work</td><td>River</td><td>AS</td><td>428</td><td>155.2</td><td></td><td></td><td></td><td></td><td>Const.</td><td>1,943</td></t<>		Health/Social Work	River	AS	428	155.2					Const.	1,943
3016A CERBUL SIMMLA     Hote/Restaurant     River     AS     142     1900     Const.       3019A SCALPRS S.A.     Hote/Restaurant     River     AS     19     1900     Const.       4218A SCALPRS S.A.     Hote/Restaurant     River     AS     19     1900     Const.       4218A COMPLEX MUZEAL POSADA     Hote/Restaurant     River     AS     19     1900     Const.       4218A COMPLEX MUZEAL POSADA     Hote/Restaurant     River     AS     19     1900     Const.       50-000     Standa     Livestock     River     AS     19     2000     Const.       6140A SCTAL I     Land Tramport     River     AS     1900     Const.     Const.       4140A SCTAL I     Livestock     River     AS     197     767.0     Const.       473A COMPMEX BRAZT     Livestock     River     AS     197     767.0     Const.       4773 A COMPMEX BRAZT     Livestock     River     AS     197     767.0     Const.       4773 A COMPMEX BRAZT     Livestock     River     AS     197     767.0     Const.       4773 A COMPMEX BRAZT     Livestock     River     AS     197     767.0     Const.       4773 A COMPMEX BRAZT     Machinery/Equim	Sub-total											5,738
4019A S.CALDINS A.     Hore/Restaurant     River     AS     131     190.0     Const.     9       423.A.     CARANA C. DOHUTANA     Hore/Restaurant     River     AS     79     190.0     Const.     24       432.A.     CAREANA C. DOHUTANA     Hore/Restaurant     River     AS     79     190.0     Const.     24       432.A.     CAREANA C. DOHUTANA     Hore/Restaurant     River     AS     79     100.0     24       30-01a1     Land     Land     River     AS     79     20.0     24       4472.A.     Nortolar PLOIESTE     Land/Transport     River     AS     79     20.0       492.A.     COMPORAS STANCESTE     Livestock     River     AS     79     20.0       497.7.A.     SCARDON SOLARIT     Livestock     River     AS     77     24       477.0     SCAGNON SOLARIT     Livestock     River     AS     767.0     26       477.0     SCAGNON SOLARIT     Livestock     River     AS     767.0     26       477.0     SCAGNON SOLARIT     Livestock     River     AS     767.0     26       477.0     SCAGNON SOLARIT     Livestock     River     AS     77.0     26		Hotel/Restaurant	River	ΑŜ	142	190.0					Const	751
4218A CABANA C. DOHUTANA     Hotel/Restaurant     River     AS     19     190.0     Const.     2       424A COMPLEX MUZEAL POSADA     Hotel/Restaurant     River     AS     97     190.0     Const.     2.4       424A COMPLEX MUZEAL LOSADA     Hotel/Restaurant     River     AS     97     190.0     Const.     2.4       4140A SECTIA L6 PLOIESTI     Lavestock     River     AS     192     767.0     2.10     2.1.1     Rehab/Const.     2.4       402.3 AVICOIA. PLOIESTI     Livestock     River     AS     192     767.0     2.10     2.2.1     Rehab/Const.     2.4       407.3 S.C.AGRONS STANCESTI     Livestock     River     AS     197     767.0     2.10     2.1.1     Livestock       477.3 A CONDUSTRIAL     Livestock     River     AS     197     767.0     2.8.9     5.6       477.3 A CONDUSTRIAL     Livestock     River     AS     197     767.0     5.6     5.6       477.3 A CONDUSTRIAL     Livestock     River     AS     197     767.0     5.6     5.6       477.4 A CONSTRUAL     Machinery/Equineent     River     AS     197     767.0     5.6     5.6       470.3 Livestock     River     AS     6.7		Hotel/Restaurant	River	AS	181	190.0					Const.	952
4342A COMPLEX MUZEAL POSADA Hore/Restaurant     River     AS     97     190.0     Const.     24       54:40A SUCIA HO.BESTI     Land Transport     River     AS     192     767.0     2109     22.1     Renab/Const.     24       54:40A SUCIA HO.DESTE     Livestock     River     AS     192     767.0     2019     22.1     Renab/Const.     24       4082A COURDESTE     Livestock     River     AS     192     767.0     Const.     24       4072A SCAGRONDUSTRAL     Livestock     River     AS     197     767.0     Const.     24       4773A SCAGRONDUSTRAL     Livestock     River     AS     197     767.0     Const.     24       4773A SCAGRONDUSTRAL     Livestock     River     AS     176.0     Const.     26       4773 SCAGRONS SCAENT     Livestock     River     AS     176.0     Const.     26       54773 SCAGRONS SCAENT     Livestock     River     AS     176.0     Const.     26       54773 SCAGRONS SCAENT     Livestock     River     AS     27.4     27.3     Const.     26       54773 SCAGRONS SCAENT     MachineryEquineent     River     AS     28.4     79.0     23.1     Renab     Const.     26	4218A CABANA C. DOHUTANA	Hotel/Restaurant	River	AS	19	190.0					Const.	156
Su-cotal         Su-cota	4342A COMPLEX MUZEAL POSAD		River	AS	97	190.0					Const.	630
4140A SECTIA Lo PLOIESTI         Land Transport         River         CO         24         358.4         210.9         22.1         Rehab/Const.         Lu           4022A AVICOLA FLOIESTE         Livestock         River         AS         797         767.0         210.9         22.1         Rehab/Const.         Lu           4082A AVICOLA FLOIESTE         Livestock         River         AS         787.0         Const.         2.0         Const.         2.5           4273A COMPAREX BRAZI         Livestock         River         AS         197         767.0         Const.         2.5           4273A COMPAREX BRAZI         Livestock         River         AS         197         767.0         Const.         2.5           4273A COMPAREX BRAZI         Livestock         River         AS         197         767.0         Const.         2.5           4273A COMPAREX BRAZI         Livestock         River         AS         197         767.0         Const.         2.5           4273A COMPAREX BRAZI         Livestock         River         AS         27.3         Const.         2.5           40030 UM PLOPENT         Machinecy/Equiment         River         WO         57.3         57.1         Rehab/Const.	Su-total											2,489
4042A     AVICOLA     PLOIESTE     Livestock     River     A3     192     767.0     Const.     1.0       402A     SCOMPORSA STANCESTI     Livestock     River     A3     578     1249.0     Const.     2.5       402A     SCOMPORSA STANCESTI     Livestock     River     A8     578     1249.0     Const.     2.5       4270A     SC.AGROS SCAENI     Livestock     River     A8     197     767.0     Const.     2.5       4273A     COMPAREX BRAZI     Livestock     River     A8     197     767.0     Const.     2.5       4270A     SL-dGROS SCAENI     Livestock     River     A8     284.9     Const.     2.5       50.06     MachineryEquinent     River     W/O     573     67.8     8.3     Const.     10       4100B     UM PLOFENI     MachineryEquinent     River     W/O     573     67.8     8.3     Const.     5.6       410A     2414 DA     2414 DA     River     W/O     573     8.1     29.0     14       410B     UP INDOFENI     MachineryEquinent     River     W/O     503     38.1     29.1     29.1       410A     Libu UP INDOFENI     MachineryEquinent     Rive	•	Land Transport	River	8	24	358.4			2.1		Rehab./Const.	191
STI       Livestock       River       AS       578       1249.0       Const.       2.5         L       Livestock       River       AS       84       767.0       Const.       2.5         Livestock       River       AS       197       767.0       Const.       2.5         Machinery/Equiment       River       AS       68       284.9       Const.       2.5         Machinery/Equiment       River       W/O       67.3       67.8       8.3       Const.       2.6         Machinery/Equiment       River       W/O       576       75.0       23.1       Const.       2.6         Machinery/Equiment       River       W/O       57.8       8.3       35.7       Const.       2.6         Machinery/Equiment       River       CO       3.087       38.1       79.0       23.1       Const.       2.6         Machinery/Equiment       River       CO       3.8.1       79.0       2.3.1       Const.       2.6         .       Machinery/Equiment       River       CO       3.8.1       28.0       14.6       10.6         .       Machinery/Equiment       River       CO       2.55       38.1       2.6 <td>•</td> <td>Livestock</td> <td>River</td> <td>AS</td> <td>192</td> <td>767.0</td> <td></td> <td></td> <td></td> <td></td> <td>Const</td> <td>110,1</td>	•	Livestock	River	AS	192	767.0					Const	110,1
L       Livestock       River       AS       84       767.0       Const.       5         Livestock       River       AS       197       767.0       234.9       Const.       5         Livestock       River       AS       197       767.0       5       Const.       5         Machinery/Equiment       River       AS       797       767.0       5       5       5         Machinery/Equiment       River       W/O       540       79.0       23.1       Rehab.       1       1         Machinery/Equiment       River       W/O       540       79.0       23.1       Rehab.       1       1         Machinery/Equiment       River       CO       3.087       38.1       296.0       146.8       10.8       Rehab.       1       1         Machinery/Equiment       River       CO       3.087       38.1       291.0       14.4       Rehab.       Rehab.       1       1         Machinery/Equiment       River       CO       255       38.1       291.0       14.4       Rehab.       1       1         Machinery/Equiment       River       CO       255       38.1       291.0       14.4	4082A COMPORSA STANCESTI	Livestock	River	AS	578	1249.0					Const.	2,505
Livestock     River     AS     197     767.0       Livestock     River     AS     197     767.0       Livestock     River     AS     68     284.9       Machinery/Equiment     Domestic S.     CO     2.576     35.7       Machinery/Equiment     River     W/O     67.3     67.8     8.3       Machinery/Equiment     River     W/O     540     79.0     23.1       Machinery/Equiment     River     CO     3.087     38.1       Machinery/Equiment     River     CO     3.087     38.1       Machinery/Equiment     River     CO     3.087     38.1       Machinery/Equiment     River     CO     3.010     14.4       Machinery/Equiment     River     CO     255     38.1       Machinery/Equiment     River     CO     255     38.1       Machinery/Equiment     River     CO     255     38.4       Machinery/Equiment     Domestic S.     CO     255     38.4       Metal	4270A S.C.AGROINDUSTRIAL	Livestock	River	AS	22	767.0					Const.	\$47
Livestock     River     AS     68     284.9     Const.     5       Machinery/Equiment     Domestic S.     CO     2576     33.7     Const.     5       Machinery/Equiment     River     W/O     67.3     67.8     8.3     Const.     5       Machinery/Equiment     River     W/O     540     79.0     23.1     Kehab.     1       Machinery/Equiment     River     CO     3.087     38.1     79.0     23.1     Const.     1       Machinery/Equiment     River     CO     3.087     38.1     296.0     146.8     10.8       Machinery/Equiment     River     CO     3.087     38.1     291.0     14.4     Rehab.       Machinery/Equiment     River     CO     255     38.1     291.0     14.4     Rehab.       Machinery/Equiment     Domestic S.     CO     255     38.1     291.0     14.4       Machinery/Equiment     Domestic S.     CO     249     96.6     6.6     6.6       Metal Products Fabricat     River     CO     222     0.574     0.19     Rehab.       Metal Products Fabricat River     CO     170     163.2     0.574     0.19     Rehab.	4273A COMPIMEX BRAZI	Livestock	River	AS	197	767.0					Const.	1,069
Machinery/Equiment       Domestic S.       CO       2.576       35.7       Rehab.       5.6         Machinery/Equiment       River       W/O       67.3       67.8       8.3       Const.       1         Machinery/Equiment       River       W/O       540       79.0       23.1       Rehab.       1         Machinery/Equiment       River       CO       3.087       38.1       79.0       23.1       Rehab.       1         Machinery/Equiment       River       CO       3.087       38.1       290.0       146.8       10.8       Rehab.       1         Machinery/Equiment       River       CO       3.8.1       291.0       146.8       10.8       Rehab.       1         Machinery/Equiment       River       CO       255       38.1       291.0       14.4       Rehab.       Rehab.       1         Machinery/Equiment       Domestic S.       CO       255       38.4       Rehab.       1       4         Metal Products Fabricat       River       CO       222       0.574       0.19       Rehab.       4         Metal Products Fabricat Domestic S.       CO       222       0.574       0.19       Rehab.       4    <		Livestock	River	AS	68	284.9					Const.	523
Machinery/Equiment       Domestic S.       CO       2,576       35.7       Rehab.       1         Machinery/Equiment       River       W/O       67.3       67.8       8.3       Const.       1         Machinery/Equiment       River       W/O       540       79.0       23.1       Const.       1         Machinery/Equiment       River       CO       3.087       38.1       29.10       23.1       Const.       1         Machinery/Equiment       River       CO       3.087       38.1       291.0       146.8       10.8       Rehab.       1         Machinery/Equiment       River       CO       255       38.1       291.0       14.4       Rehab.       4         Machinery/Equiment       Domestic S.       CO       255       38.4       Rehab.       4         Machinery/Equiment       Domestic S.       CO       255       96.6       6.6       6.6       Rehab.       4         Metal Products Fabricat Domestic S.       CO       222       0.574       0.19       Rehab.       4         Metal Products Fabricat Domestic S.       CO       222       0.574       0.19       Rehab.       4         Minms/Ouarying       Riv	Su-total											5.655
Machinery/Equiment       River       W/O       673       67.8       8.3       Const.         Machinery/Equiment       River       W/O       540       79.0       23.1       Const.       I         Machinery/Equiment       River       CO       3,087       38.1       79.0       23.1       Const.       I         Machinery/Equiment       River       CO       3,087       38.1       79.0       23.1       Const.       I         Machinery/Equiment       River       CO       3,087       38.1       296.0       146.8       10.8       Rehab.       I         Machinery/Equiment       River       CO       255       38.1       291.0       14.4       Rehab.       Rehab.       A         Machinery/Equiment       River       CO       255       38.1       291.0       14.4       Rehab.       A         Machinery/Equiment       River       CO       255       38.1       291.0       14.4       Rehab.       A         Metal Products Fabricat       River       CO       255       96.6       6.6       6.6       7.9       Rehab.       A         Metal Products Fabricat Domestic S.       CO       222       0.574       <	4029A HIDROJET BREAZA	Machinery/Equiment	Domestic S.	g	2,576				5.7		Rehab.	113
Machinery/Equiment       River       W/O       540       79.0       23.1       Const.       1         Machinery/Equiment       River       CO       3,087       38.1       23.1       Const.       1         Machinery/Equiment       River       CO       3,087       38.1       Rehab.       1         Machinery/Equiment       River       CO       3,087       38.1       296.0       146.8       10.8       Rehab.       1         Machinery/Equiment       River       CO       713       38.1       291.0       14.4       Rehab.       4         Machinery/Equiment       River       CO       255       38.1       291.0       14.4       Rehab.       4         Machinery/Equiment       Domestic S.       CO       255       38.4       0.6       6.6       8.6 hab.       4         Metal Products Fabricat       River       CO       222       0.574       0.19       Rehab.       4         Metal Products Fabricat Domestic S.       CO       222       0.574       0.19       Rehab.       4         Minus/Ouaryaix       River       CO       163.2       0.574       0.19       Rehab.         Minus/Ouaryaix       Riv	4100B U.M.PLOPENI	Machinery/Equiment	River	0/M	673		67.8		8.3		Const.	31
Machinery/Equiment     River     CO     3.087     38.1       ArrE     Machinery/Equiment     River     CO     4.19     38.1       Andhinery/Equiment     River     CO     4.19     38.1       Machinery/Equiment     River     CO     4.19     38.1       Machinery/Equiment     River     CO     4.19     38.1       Machinery/Equiment     River     CO     713     38.1     291.0       Machinery/Equiment     River     CO     713     38.1     291.0       Machinery/Equiment     River     CO     255     38.4     Rehab.       Machinery/Equiment     Domestic S.     CO     255     38.4     Rehab.       Mathinery/Equiment     Domestic S.     CO     222     96.6     6.6       Metal Products Fabricat     River     CO     222     0.574     0.19     Rehab.		Machinery/Equiment	River	0/M	540		79.0	(3	3.1		Const.	25
<ul> <li>Machinery/Equiment River CO 419 38.1</li> <li>Machinery/Equiment River CO 416 38.1 296.0 146.8 10.8</li> <li>Rehab.</li> <li>Machinery/Equiment River CO 713 38.1 291.0 14.4</li> <li>Rehab.</li> <li>Machinery/Equiment Domestic S. CO 255 38.4</li> <li>Metal Products Fabricat River CO 549 96.6 6.6</li> <li>Metal Products Fabricat Domestic S. CO 222 0.574 0.19</li> <li>Rehab.</li> <li>Mining/Ouarryag River CO 170 163.2</li> </ul>		Machinery/Equiment	River	8	3,087	38.1					Rehab.	136
<ul> <li>Machinery/Equiment River CO 446 38.1 296.0 146.8 10.8</li> <li>Machinery/Equiment River CO 713 38.1 291.0 14.4</li> <li>Machinery/Equiment Domestic S. CO 255 38.1 291.0 14.4</li> <li>Rehab.</li> <li>Metal Products Fabricat River CO 549 96.6 6.6</li> <li>Metal Products Fabricat Domestic S. CO 222 0.574 0.19 Rehab.</li> <li>Mining/Ouarryag River CO 170 163.2</li> </ul>	4211A U.M.VALENI DE MUNTE	Machinery/Equiment	River	8	419	38.1					Rehab.	31
<ul> <li>Machinery/Equiment River CO 713 38.1 291.0 14.4 Rehab. Machinery/Equiment Domestic S. CO 255 38.4 Rehab.</li> <li>Metal Products Fabricat River CO 549 96.6 6.6 0.574 0.19 Rehab.</li> <li>Metal Products Fabricat Domestic S. CO 222 0.574 0.19 Rehab.</li> <li>Mining/Ouarryag River CO 170 163.2 Rehab.</li> </ul>	4292A S.C.PETROUTILAJ S.A.	Machinery/Equiment	River	8	446	38.1	296.0		0.8		Rehab.	33
Machinery/Equiment     Domestic S.     CO     255     38.4     Rehab.       Metal Products Fabricat     River     CO     549     96.6     6.6     Rehab.       Metal Products Fabricat     River     CO     222     96.6     6.6     Rehab.       Metal Products Fabricat     River     CO     222     0.574     0.19     Rehab.	4292C S.C.PETROUTILAJ S.A.	Machinery/Equiment	River	8	713	38.1	291.0	-	4.4		Rchab.	52
Metal Products Fabricat River CO 549 96.6 6.6 Rehab. Metal Products Fabricat Domestic S. CO 222 0.574 0.19 Rehab. Minne/Ouarryng River CO 170 163.2 Rehab.		Machinery/Equiment	Domestic S.	8	255			(°)	8.4		Rchab.	11 431
Metal Products Fabricat Domestic S. CO 222 0.574 0.19 Rehab. Mining/Ouarrying River CO 170 163.2 Rehab.	4147A DACIA PLOIESTE	Metal Products Fabrica		8	549		9.96		6.6		Rehab.	54
Minns/Ouarryng River CO 170 163.2 Rehab.	4314A TROMET Shi-total	Metal Products Fabrica	t Domestic S.	8	222				0.574	0.15		음 X
	4095A STICLOVAL VALENH	Mining/Ouarrying	River	8	170		163.2				Rehab.	16

Table 7.6 Wastewater Treatment Development of Industrial Establishments (3/3)

Development   Total Rehab. /	Const.Cost (USS 1,000)	24	58	61	14	3	159		4	275	1,554	<b>ist.</b> 833			<b>St.</b> 893	743	18,175	-73	4	63	8	416			tst. 582		14	2.928
Developmen	Measures	Rehab.	Rehab.	Rehab.		Rehab.	Rehab.		Rehab./Const	Rchab.	Rchab.	Rehab./Const	Rehab./Const	Rehab/Const	Rehab./Const	Rehab.		Rchab.	Rehab.	Rehab.	Const.	Rchab.	Rehab./Const	Rehab./Const	Rehab/Const.	Rchab/Const		
	SS COD Oil CN Phenol Cd 60(300) 40(500*) 5(20) 0.05(30) 0.1(0.1)								0.64		0.557		0.281	1.01		0.735										0.256		
Standard Effluent Quality (mg/l)	EI CN 20) 0.05(0.5) (								7.2		31.9		37.7	59.7		48.0					85.0	10.3				0.074		
ard Efflue	COD 01 0(500**) 5(20						217.6		48.6		106.0 3		173.7 3		112.3						8	47.3 1				316.0		
Stand	SS 60(300) 4(	I34.9	128.0	153.6		99.5	103.0		173.7	154.2	320.4		109.6	300.4	479.5	280.4		125.4	103.0	97.6	1,893					568.0	367.3	
	BOD 20(300)						40.1		75.0		158.4	96.0	82.0	93.9	82.7	161.0						86.5	223.7	223.7	223.7	428.2		
Discharge	(m3/d)	293	362	222		16,640	2,176		12,065	21,311	68,027	127	1,341	39,392	137	32,512	-	14	28	1,424	244	1,622	313	18	83	97	315	
Treat-	ment	g	8	8		AS	AS		AS	AS	AS	AS	AS	AS	AS	AS		AS	AS	8	g	AS	3	8	8	8	8	
Receiving	Body	River	River	River		River	River		River	River	River	River	River	River	River	River		River	River	River	Domestic S.	Ruver	River	River	River	River	River	
Activity		Non-metallic Mineral	Non-metallic Mineral	Non-metallic Mineral		Paper/Paper Products	Paper/Paper Products		Petroleum Refinery	Petroleum Refinery	Petroleum Refinery	Petroleum Refinery	Petroleum Refinery	Petroleum Refinery	Peroleum Refinery	Petroleum Refinery		Post/Telecom.	Public Administration	Rubber/Plastic	Tanning/Leather	Textile	Wood	Wood	Wood	Wood	Wood	
Name of Factory		ZINZIR SINTERREF	4009A STTAZ AZUGA	4213A VULTURULCOMARNIC	Su-total	4014A HARTIA BUSTENI	4102A S.C.CAHIRO S.A	Su-total	4035A S.C.STEAUA ROMANA	4039A VICTORIA FLORESTI	4051A S.C.PETROBRAZI	4091A S.C.CHIMFORE	4137A S.C. VEGA S.A.	4148A S.C.PETROTEL PLOIESTI	4149B PETROTRANS PLOIESTI	4158A S.C.ASTRA ROMANA	Su-total	4535A STATIA SOL CHEIA	4298A UNIT. TERIT. 440	4138A PROGRESUL PLOIESTE	4318A PRAHOVEANA PLOIESTI	4007A POSTAV AZUGA	4017A S.E.P.P.L.CIMPINA	4017B S.E.P.P.L.CIMPINA	4025A SEPPL PLOIESTI	4089A S.E.P.P.L.MANECIU	4101A GES SCAIENI	Su-total
( ode		IN AFOR	4009A S1	4213A VI	Su	4014A H	4102A S.	Su	4035A S	4039A VI	4051A S.	4091A S.	4137A S.	4148A S.	4149B PI	4158A S.	S	4535A ST	4298A U	4138A P	4318A PI	4007A P(	4017A S.	4017B S.	4025A St	4089A S.	4101A G	S

Note: AS: activated sludge, CO: coagulation settling, W/O: without treatment, Re : rehabilitation only, F: floating, SF: sand filter, \*: COD value measured in Cr, Rehabilitation, Const.: Construction

Groupe Code	Code	Activity	Characteristics		to River			to Domestic Sewerage System	rage System
			of Wastewater	No. of Channels	No. of Common s Parameters	No. of Additional Parameters	No. of Channels	No. of No. of Common Channels Parameters	No. of Additional Parameters
	0141 0143B 0143C 05A 05B	Agricultural Activities Irrigation (Flowers) Irrigation (Wine) Fish Farming (Cloan Water) Fish Farming (Cloan Water)	Organic substances, fertilizer and pesticide	۰. د	13 (pH, NH, <sup>7</sup> , NO <sub>5</sub> <sup>-</sup> , NO <sub>2</sub> <sup>-</sup> , T-N, Cl <sup>-</sup> , T-P, PO <sub>4</sub> <sup>3-</sup> , BOD, COD <sub>(m)</sub> , COD <sub>(C)</sub> SS. and Residue)	4 (tron, Mn <sup>2*</sup> , Al <sup>3*</sup> , Mg <sup>2*</sup> )	0	6 (⊳Н, NH₄°, T∽Р, BOD, COD <sub>(co)</sub> , SS)	2 (M£ <sup>2*,</sup> SO <sub>4</sub> <sup>2</sup> )
~	80 88 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Crude Oil Extraction Mining/Quarrying Petroloum Refinery Chemicals/Chemical Products. Rubber/Plastic Products Machinery/Equipment Land Transport Transport Activities	Substances related to oil	21	51	12 (Phenol, Iron, H <sub>2</sub> S (S <sub>2</sub> ), Petroleum products, Subtances extracted by petroleum ether, Cd <sup>2+</sup> , CN <sup>+</sup> , Pb <sup>2+</sup> , Cr <sup>6+</sup> , Cr <sup>3+</sup> , Hg, F)	မ္က	ω	9 (Phenol, H <sup>2</sup> S (S2), Substances extracted by petroleum ether, Cd <sup>2</sup> , CN <sup>2</sup> , Pb <sup>2*</sup> , Cr <sup>6*</sup> , Cr <sup>3*</sup> , SO4 <sup>2</sup> )
m	012A 012B 15 21	Livestock Farm Livestock Farm (Small) Food/Beverage Paper/Paper Products	High organic substances including inorganic substances	12	ç,	10 Phenol, Cd <sup>2</sup> , CN <sup>*</sup> , Pb <sup>2</sup> *, Cr <sup>6+</sup> , Cr <sup>3+</sup> , Hg, Iron, H <sup>2</sup> S (S <sup>2</sup> ), Substance extracted by petroleum ether	α	ω	8 (Phenol, Cd <sup>2*</sup> , CN <sup>-</sup> , Pb <sup>2*</sup> , Cr <sup>6*</sup> , Cr <sup>3*</sup> , H <sup>2</sup> S (S <sup>2</sup> ), Substance extracted by petroleum ether
4	119 19 19 19 19 19 19 19 19 19 19 19 19	Textiles Tanning/Dressing Leathor Wood Non-Metallic Mineral Products Basic Metals Metal Products Fabricated Electrical Machinery/Apparatus Furniture Construction Health/Social Work	Heavy metals and toxic substance	27	ç	21 (Phenol, Iron, Mn², S0₃²- , Aɛ̯, As, Al³, Cd², CN <sup>7</sup> , Oo², Cr <sup>6</sup> , Cr³, Cu², F <sup>°</sup> , Hɛ̯², MO², Ni², Pb², Mɛ̯², Se², Zn²)	52	ω	11 (Phenol, SO <sub>3</sub> <sup>2-</sup> , Cd <sup>2+</sup> , CN <sup>-</sup> , Cr <sup>6+</sup> , C <sup>3+</sup> , Cu <sup>2+</sup> , Ni <sup>2+</sup> Pb <sup>2+</sup> , Mg <sup>2+</sup> , Zn <sup>2+</sup> )
ۍ.	55 55 80 80 80 80	wholesale 17ade/Commission Trade Hotel/Restaurant Post/Telecommunication Public Administration/Defenso Administration/Defenso Recreational/Cuttural/Sportin Recreational/Cuttural/Sportin	Organic subustances and coliform	5	13	10 (Ca <sup>2+</sup> , Cl <sub>2</sub> , Anionic detergents, Iron, Mn <sup>2+</sup> , Mg <sup>2+</sup> , Total coliforms, Fecal coliforms, Focal streptococci, Salmonella)	8 1	ω	4 (Cl <sub>2</sub> , Anionic dotergents, SO4 <sup>2°</sup> , Mg <sup>2°</sup> )

Table 7.7 Monitoring Parameters of Industrial Wastewater

Municipality		Investme	ent Cost		(unit: US\$ 1,000) O&M Cost					
	2001- 2	006-	2011-	Total	2001-	2006-	2011-	Annual		
	2005	2010	2015		2005	2010	2015	2016- *		
Predeal	0	40	40	79	203	203	204	41		
Azuga	0	910	26	935	15	15	183	37		
Busteni	0	2,335	626	2,960	21	21	333	68		
Sinaia	139	108	1,341	1,588	395	461	464	146		
Comarnic	0	1,006	245	1,251	-	-	148	31		
Breaza	449	103	167	718	438	460	470	99		
Cimpina	356	2,279	2,279	4,913	513	647	662	297		
Baicoi	1,025	260	1,418	2,702	231	277	286	68		
Plopeni	748	47	2,094	2,889	490	551	555	136		
Slanic	584	158	379	1,120	87	102	104	22		
Valenii de Munte	823	188	231	1,241	161	174	176	36		
Boldesti Scaieni	199	126	155	480	220	238	242	50		
Urlati	381	227	604	1,211	245	258	269	61		
Ploiesti	7,855	8,128	8,128	24,111	2,776	4,145	5,536	1,521		
Floresti	116	0	230	346	74	83	85	21		
Maneciu	39	.0	78	117	25	28	28	7		
Total	12,714	15,910	18,036	46,661	5,892	7,661	9,742	2,641		

- Lauie oli Flabsed l'Eugrain of Sewerage Investment and UXAI Costs	Table 8.1	Phased Program of Sewerage Investment and O&M Costs
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Table 8.2	Phased Pa	rogram of	Investment	and O8	M Costs o	f Industrial	Wastewater '	Treatment

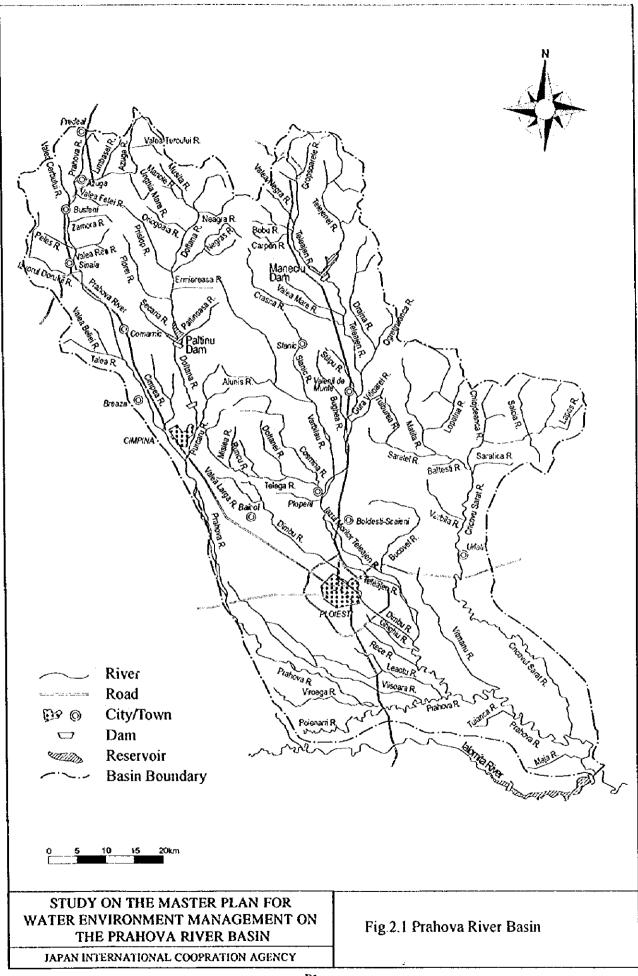
Industrial		Investine	nt Cost		O&M Cost				
Category	2001-	2006-	2011-	total	2001-	2006-	2011-	Annual	
	2005	2010	2015		2005	2010	2015	2016.*	
Agricultural Activities	1			-	6	6	6	1	
Basic Metals			71	71	264	306	370	78	
Chemical/Chemical Products			23	23	203	235	361	76	
Construction Material			242	242	376	435	544	115	
Crude Oil Extraction	]			-	91	105	127	27	
Education			952	952	29	34	41	9	
Electrical Machinery/Apparatus		895	1,389	2,284	107	124	150	32	
Electricity/Gas Supply			214	214	686	796	960	203	
Food/Beverage			9,520	9,520	991	1,149	1,443	305	
Furniture				-	38	44	53	11	
Health/Social Work		1,175	4,564	5,738	309	363	445	94	
Hotel/Restaurant		914	1,575	2,489	429	531	685	147	
Irrigation (Flowers)				-	15	15	15	3	
Land Transport		119	72	191	328	380	459	97	
Livestock Farm		5,042	613	5,655	740	740	740	148	
Machinery/Equipment			431	431	2,544	2,966	3,792	802	
Metal Products Fabricated			34	34	556	644	777	164	
Mining/Quarrying			16	16	59	69	83	18	
Non-metallic Mineral Products	1		71	71	179	207	250	53	
Paper/Paper Products			219	219	2,842	3,296	3,976	841	
Petroleum Refinery	9,616	4,162	4,398	18,175	35,950	41,688	50,296	10,633	
Post/Telecommunication			2	2	4			1	
Public Administration/Defense			4	4	392	454	548	116	
Recreation/Culture/Sports				-	5	6	7	2	
Rubber/Plastic Products			63	63	282	327	394	83	
Tanning/Dressing Leather			26	26	12	14	17	4	
Textiles			416	416	1,019	1,182	1,426	301	
Transport Activities				-	44	51	62	13	
Wholesale Trade/Communication				-	65	75	91	19	
Wood	1	1,432	1,496	2,928	232	269	324	69	
Total	9,616	13,738	26,407	49,761	48,793	56,514	68,445	14,463	

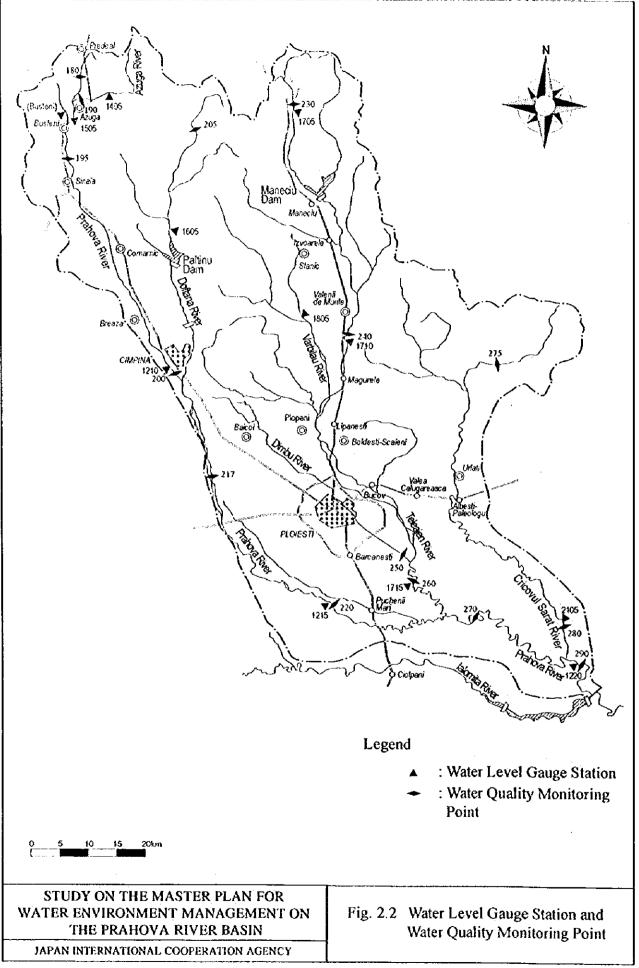
\*: US\$ 1,000/year

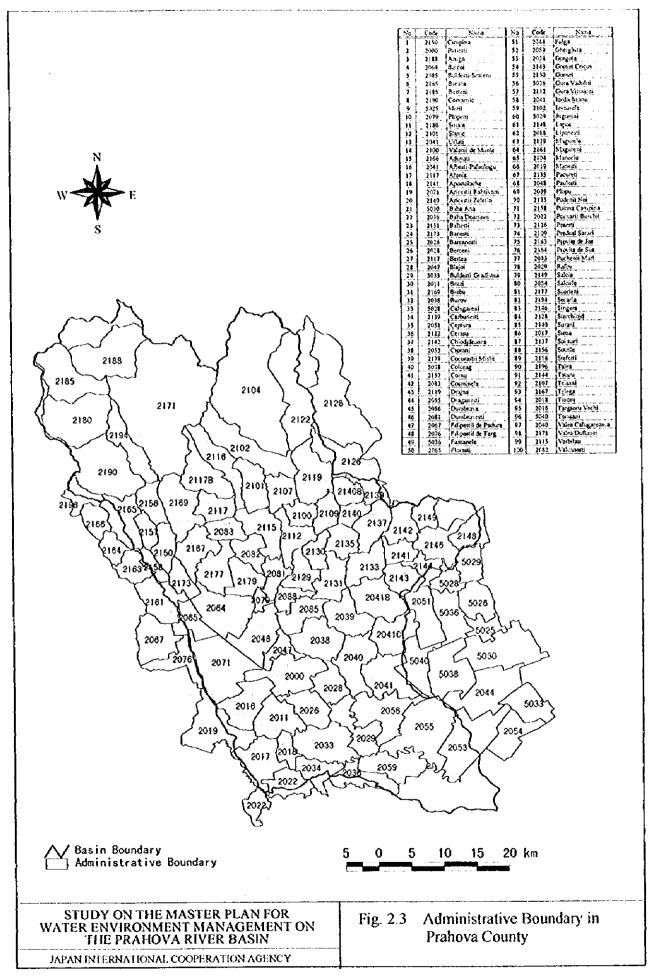
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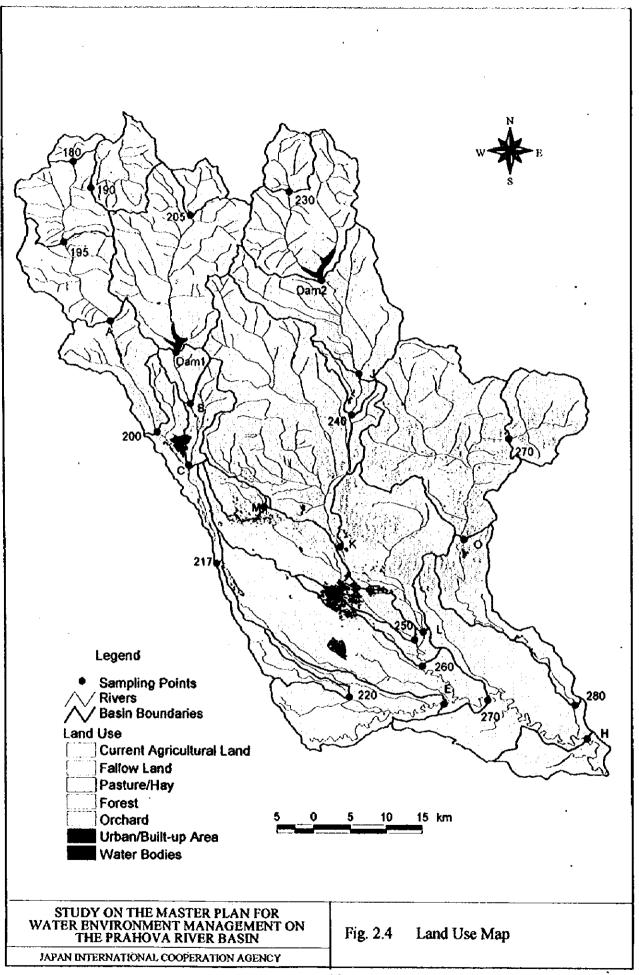
FIGURES

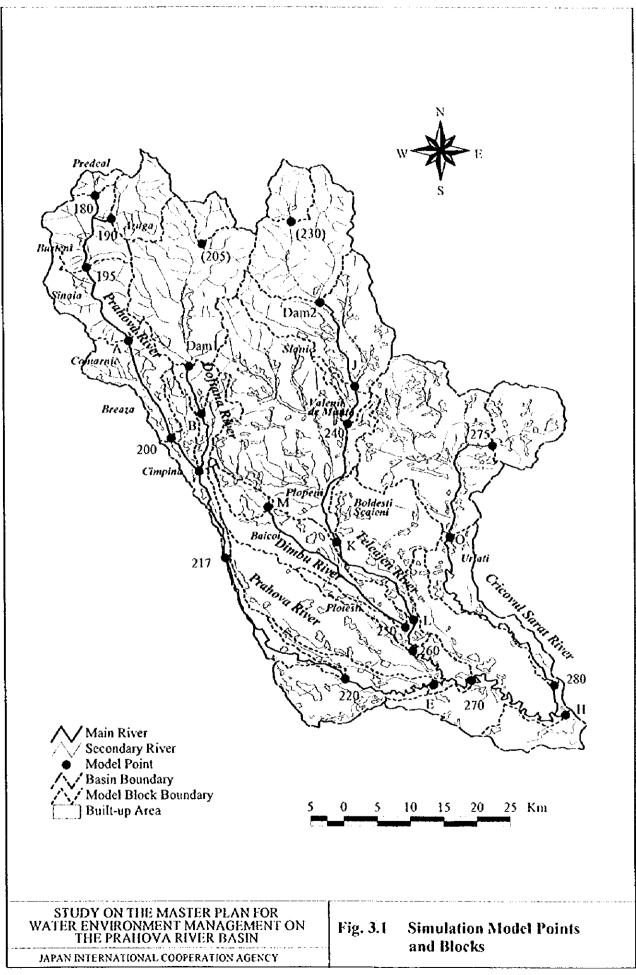
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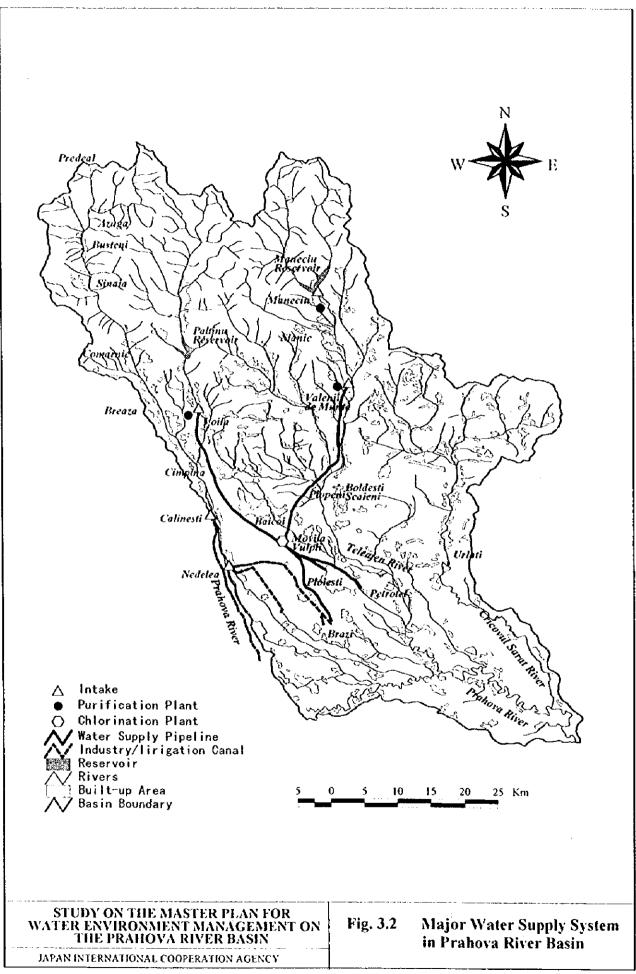


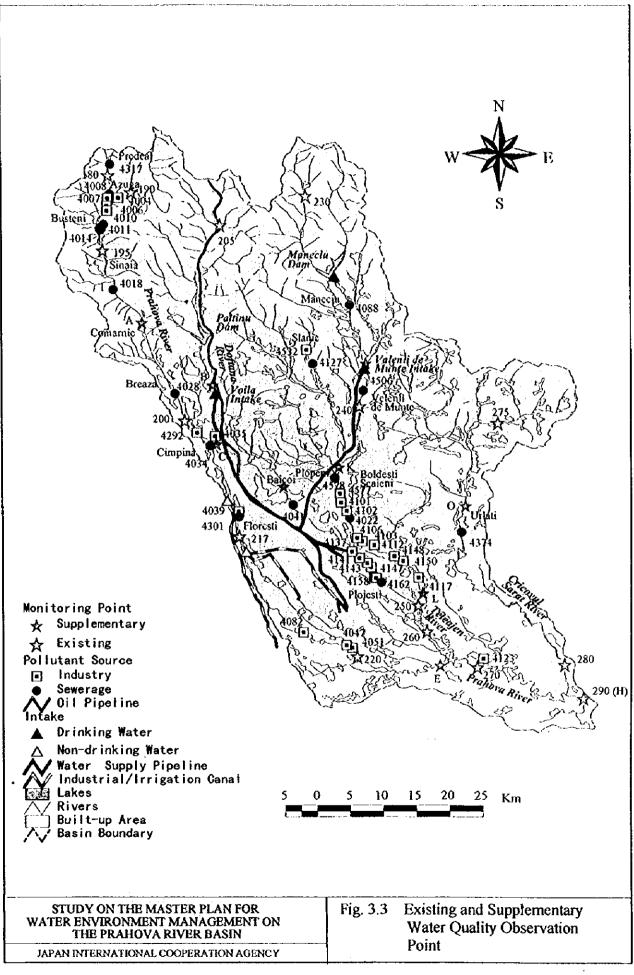


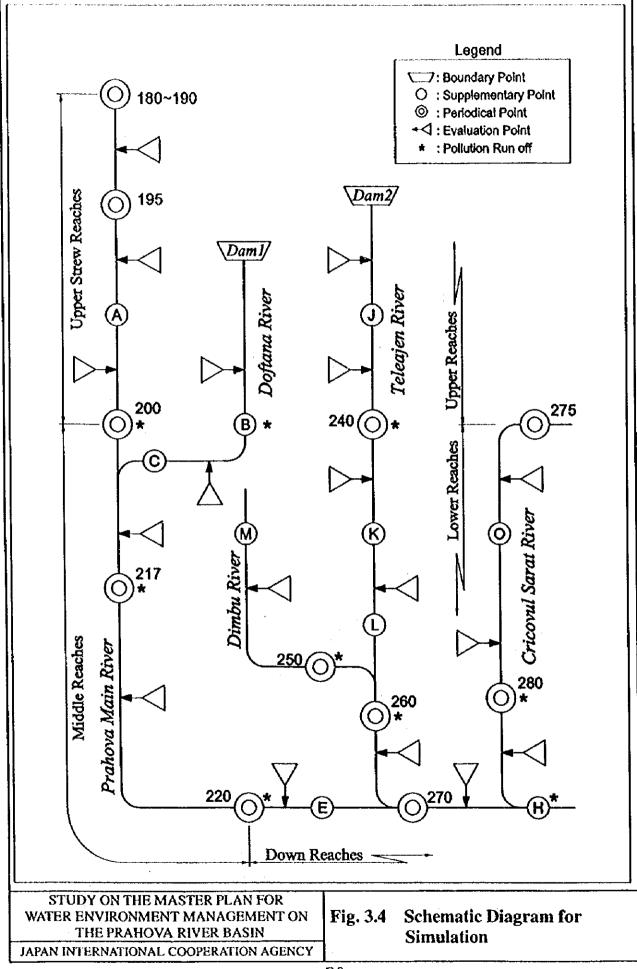


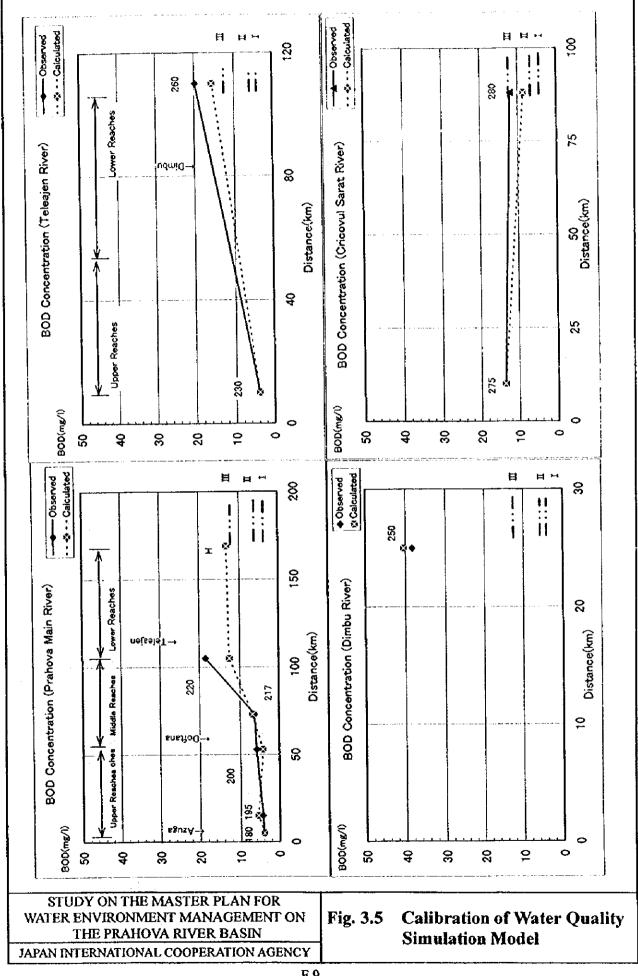


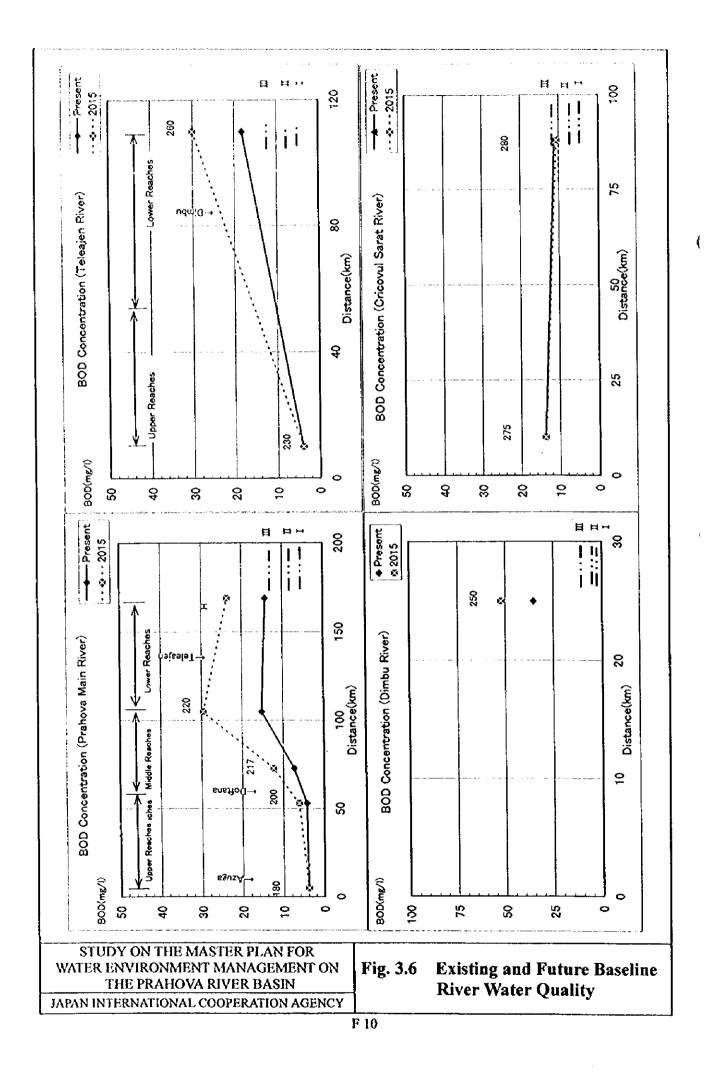


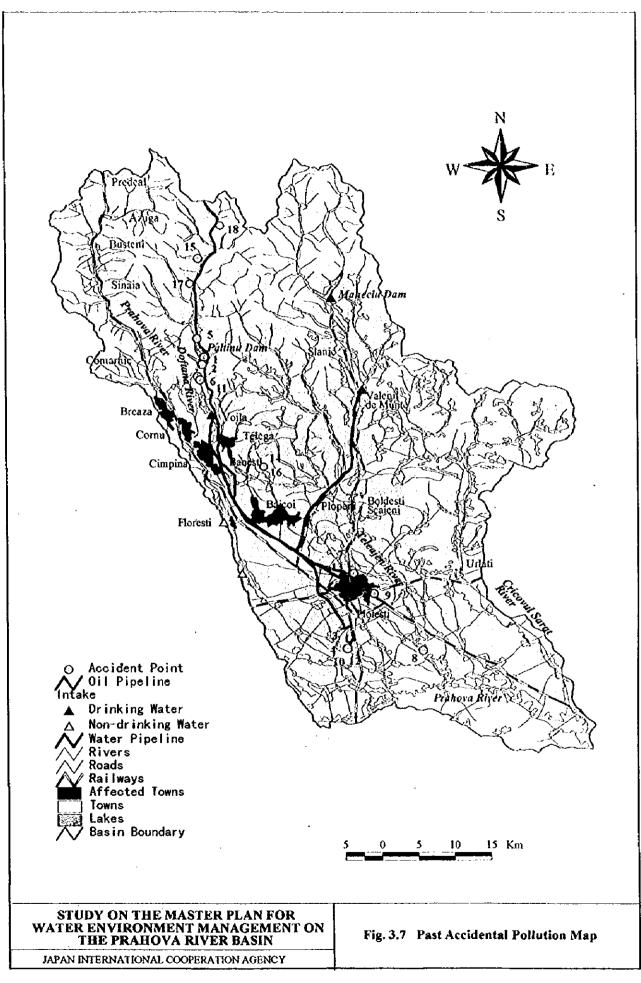


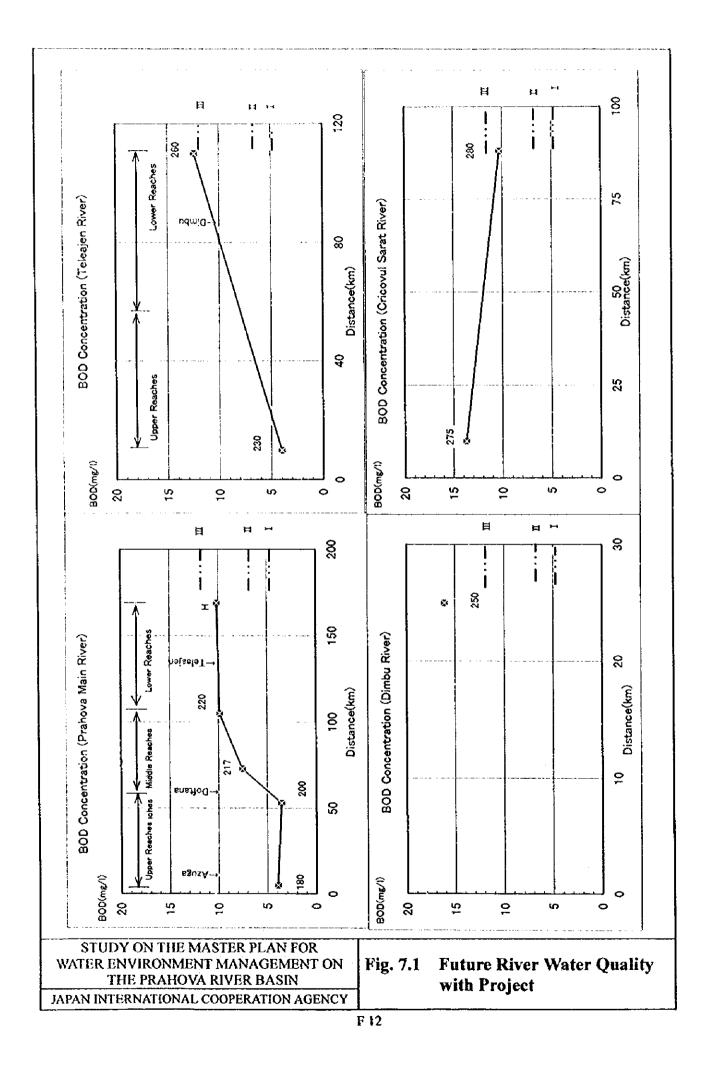












# **MINUTES OF MEETINGS**

#### Minutes of Meeting for the Inception Report of the Study on the Master Plan for Water Environment Management on the Prahova River Basin

The JICA Study Team presented the inception report of the captioned Master Plan Study to the MWFEP and the report was discussed between JICA Study Team and the officials concerned of the MWFEP through the following meetings. The participants of the meetings are listed in Annex.

(1) First Meeting

Date : December 15, 1997 (Monday), 9:00 AM to 10:00AM

Place : Conference Room in the MWFEP

(2) Second Meeting

Date : December 15, 1997 (Monday), 10:30 AM to 12:00AM

Place : Conference Room in the Headquarters of the Romanian Waters

(3) Third Meeting

Date : December 16, 1997 (Tuesday), 10:00 AM to 2:00 PM

Place : Conference Room in the Ploiesti Office of the Romanian Waters

(4) Forth Meeting

Date : December 17, 1997 (Wednesday), 9:00 AM to 10:00 AM

Place : Conference Room in the Headquarters of the Romanian Waters

(5) Fifth Meeting

Date : December 17, 1997 (Wednesday), 3:30 PM to 4:00 PM

Place : Conference Room in the MWFEP

The report was accepted by the MWFEP with the following major comments.

 As one of the major existing water environmental problems in the Prahova River Basin, the serious accidental water pollution should be added in Chapter II.

- (2) "National Strategy for Water Management" prepared by MWFEP and approved by the Government in 1995 should be added in the Planning Policy of Section 3.1, Chapter III.
- (3) For the management of accidental river water pollution, accidental preparedness plan and emergency action manual should be proposed in addition to the preparation of potential risk map.

Further, it was confirmed that study on the groundwater pollution control is not included in this Master Plan Study according to the provisions of Scope of Work.

Bucharest, December 17, 1997

Ms. Liliana Mara

Mr. Naohito Murata

Leader, JICA Study Team

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Director, MWFEP

Annex : List of the Meeting Attendants

List of the Meeting Attendants

Romanian Side

Ministry of Water, Forests & Environmental Protection (MWFEP) Director Ms. Liliana Mara Self Managed Public Company "Romanian Waters" Mr. Petre Serban Director Leader of the Counterparts Mr. Ion Pop **Project Coordinator** Ms. Ana Drapa Mr. Serban Iliescu **Biologist** Self Managed Public Company "Romanian Waters" - Branch Buzau Mr. Dumitru Barbatu **Chief of Regulation Activity** Chief of Water Quality Protection Office Mr. Dumitru Costin Self Managed Public Company "Romanian Waters" - Branch Buzau, Water Management System Prahova Director, Co-team Leader Ms. Valeria Placinta Mr. Petre Sentenai Technical Manager Head of Water Quality Protection Department Mr. Vasile Calamaz Chemist Engineer Ms. Luxandra Oancea Engineer - Water Quality Protection Department Ms. Irina Selaru Engineer - Water Balance Ms. Cornelia Sumedrea Japanese side JICA Study Team Team Leader of JICA Study Team Naohito Murata Co-team Leader of JICA Study Team Susumu Heishi Member of JICA Study Team Kunio Ishikawa Member of JICA Study Team Hiroko Kamata Member of JICA Study Team Kazushi Endo

## JICA Advisory Committee

Koji Nagano	Member of JICA Advisory Committee
Mikio Tani	Member of JICA Advisory Committee

# JICA

Dai Masuda Hiroaki Okubo JICA Headquarters Head of JICA/JOCV Romania Office

#### Minutes of Meeting for Progress Report (1) of the Study on the Master Plan for Water Environment Management on the Prahova River Basio

- 1. The JICA Study Team presented the progress report (1) of the captioned Master Plan Study to the MWFEP and the report was discussed between JICA Study Team and the officials concerned of the Ministry and the other related agencies. The meeting was held at the conference room of Hotel Tourist on 17<sup>th</sup> in March, 1998. The list of attendance is attached.
- 2. Chairperson Mrs. Placinta, director of the Romanian Waters Authority, Ploiesti opened the meeting and welcomed the participants. The JICA Study Team presented the contents of the progress report (I) consisting of the summary report and its appendixes. The Romanian authorities thank the JICA Study Team for its efforts and for the useful report resulting from this first phase of the Study. The JICA Study Team expressed its appreciation for the collaboration received from all Romanian agencies contacted during the first phase of the Study.
- 3. During the discussion, Romanian side emphasized the existing problems of groundwater pollution in the Basin. The groundwater in the downstream area of Ploiesti-Brazi-Valca Calugareasca is polluted. A number of people in this area use the groundwater for drinking at present. Romanian side strongly requested to include the issue of the existing groundwater quality in the scope of this Study.
- 4. The JICA Study Team replied that they recognized the importance of the groundwater quality analysis and would transmit the request of the Romanian side to the JICA Headquarter in Tokyo.
- 5. In the Meeting, the following technical comments were given for consideration of the JICA Study Team in the further study.
- (1) There are many small laboratories in the River Basin for water quality analysis, with insufficient equipment and manpower. Integration of these laboratories into one (1) with improved equipment and manpower would be recommendable to attain more efficient operation and more water quality analytical results.
- (2) For the river water pollution control, improvement of the existing wastewater treatment plants is considered to be more efficient than extension of the sewerage service area.
- (3) A significant amount of domestic water supply is currently used as industrial water. When high water quality is not necessary, industrial water supply system should be used instead.

(4) A considerable amount of clean groundwater is used for industrial purposes at present. This water source should be converted to domestic use to the extent possible, and industrial water should be supplied from surface water.
(3) Ploiesti City Hall has an plan of urban extension toward the south of the city. An early study for the uniter simple in the surface water.

for the water supply to this area is needed.

Ploiesti, March 18, 1998

Ph.Dr. Peire Serban Division Director, Romanian Waters Authority, Bucuresti >

Mr. Naohito Murata Leader, **JICA Study Team** 村田上

# List of Attendance

Subject: Progress ReportPlace:Hotel TuristTime:10:00 17-03-1998

Na.	Name	Organization	Position	Signature
<u> </u>	Irina Şelaru	Apele Române	inginer	Debeur
2	Florica Albu	Apele Romane	Inginer	J.alu
3	Luxandra Oancea	Apele Romàne	Inciner	24
4	lleana Cornea	Apela Române	Inginer	Kone
5	Ana Orapa	Apele Române	inginer	da
6	Liliana Bara	M.A.P.P.M.	expert (	N Jose
7	Valeria Plăcintă	Apele Române	director	721
8	Vasile Calamaz	Apele Române	inginer 4	le star
9	Doina Panait	Apele Române	Inginer	Contract .
10	Cristina Cristea	Apele Române	inginer	arter
11	lon Eftimie	Prefectura judetului Prahova	director	Alter T
12	Corina Calota	Prefectura județului Prahova	consilier	RH2 M
13	Ion Stoica	Consiliul judetean Prahova	director	MA
14	Ligia Tinca	Apele Române	director	d.Jn.
15	Dumitru Bārbatu	Apele Române	inginer 4	tripet.
16	Dumitru Costin	Apele Române	inginer	the
17	M.Murata	JICA Study Team	ICA team leader	17-00
18	T. Kameyama	JICA Study Team	JICA member	_ ليفق
19	K Tamagawa	JICA Study Team	JICA member	五川
20	K Kaneko	JICA Study Team	JICA member	*3-
21	K. Ikari	JICA Study Team	JICA member	in
22	A. Demayo	JICA Study Team	JICA member	at-
23	H. Kotani	JICA Study Team	JICA member	X Mosta
24	T. Matsushita	JICA Study Team	JICA member	PYTHA!
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#### Minutes of Meeting for the Interim Report of the Study on the Master Plan for Water Environment Management on the Prahova River Basin

The JICA Study Team presented the Interim Report of the captioned Master Plan Study to the MWFEP and the report was discussed between JICA Study Team and the officials concerned of the MWFEP, the local public administration and other agencies. The participants of the meeting are listed in Appendix.

(1) First Meeting

Date : July 6, 1998 (Monday), 2:00 PM to 4:00 PM Place : Conference Room in MWFEP

(2) Second Meeting

Date : July 7, 1998 (Tuesday) 1:30 PM to 5:00 PM Place : Conference Room in Central Hotel, Ploiesti

(3) Third Meeting

Date July 8, 1998 (Wednesday) 2:00 PM to 4:00 PM Place : Conference Room in MWFEP

The Interim Report was accepted by the MWFEP with the following comments.

- 1. Alternative projections of the population and industrial production in the Prahova River Basin will be discussed with the concerned agencies in assessment of the future river water quality.
- 2. The target water quality of the Prahova River will be proposed in consideration to both harmonization with EU standards and cost effectiveness of the project. In determination of the above target river water quality, the water use of falomita River will be considered as well.
- 3. Priority of the accidental water pollution control in the Prahova River Basin is given on the water source areas.
- 4. The following data and information will be supplied to the JICA Study Team from the concerned agencies.

- (1) Existing and future water use, and existing aquatic life of Ialomita River from MWFEP and Romanian Waters,
- (2) Previous study reports for the accidental water pollution control in the Prahova River Basin from Prahova Environmental Protection Agency,
- (3) Development plans of the sewerage treatment plant in the Prahova River Basin from Council of Prahova County.
- 5. Comments on legislative and institutional aspects
- Provisions of Water Law should be described in addition to those of Environmental Protection Law.
- (2) NTPA 001 stipulates the quality standards of wastewater effluent to river. On the other hand, NTPA 002 regulates those to municipal sewerage system.
- (3) The issuing and enforcement of operating license is regulated not by the Governmental Decision HG-1001 but by Water Law. HG-1001 stipulates water tariff, pollution charge and fines. The cost of water tariff, pollution charge and fines are determined by MWFEP through consultation with Competition Bureau.
- (4) The latest Government Decision for the institution of MWFEP is the Government Decision 568/1997.
- (5) The affected organization chart of MWFEP is old and it should be corrected.

Bucharest, July 9, 1998

Ms. Liliana Mara Director, Ministry of Water, Forests and Environmental Protection

Mr. Naohito Murata Leader, JICA Study Team

Witness

Mr. Kenichi Tanaka Chairman, JICA Advisory Committee

#### Appendix

#### LIST OF THE MEETING ATTENDANTS on June 6 th 1998 (First Meeting)

Romanian side:

Ministry of Water, Forests & Environmental Protection (MWFEP)

Ms. Liliana Mara	Director
Ms. Liliana Bara	Expert
Ms. Ruxandra Balaet	Expert

Japanese side

JICA Advisory Committee Mr. Kenichi Tanaka Mr. Mikio Tani

JICA Study Team Mr. Naohito Murata Mr. Susumu Heishi

#### LIST OF THE MEETING ATTENDANTS on June 7<sup>th</sup> 1998 (Second Meeting)

#### Romanian side:

Self Managed Public Company "Romanian Waters" - Bucharest		
Mr. Ion Pop	Team Leader of Project	
Ms. Ana Drapa	Project Coordinator	

Self Managed Public Company "Romanian Waters "-Buzau Basin Branch Ms. Ligia Tinca Manager Mr. N. Barbatu Engineer

Self Managed Public Company "Romanian Waters "-Buzau Basin Branch Prahova Operating Office

Ms. Valeria Placinta Mr. Vasile Calamaz Ms. Cristina Cristea Ms. Albu Florica Ms. Irina Selaru Manager Head of Water Quality Protection Department Head of Laboratory Chemist Engineer Engineer

Environmental Protection Agency – Ploiesti Mr. I. S. I. Homoraceanu Manager Prohova County Mr. Ion Eftimie Mr. Ion Stoica

Prahova Prefecture Counselor of Prahova County

Japanese side

JICA Advisory Committee Mr. Kenichi Tanaka Mr. Mikio Tani

JICA Study Team Mr. Naohite Murata Mr. Susumu Heishi Mr. Kunio Ishikawa Ms. Setsuko Matsuzawa

#### LIST OF THE MEETING ATTENDANTS on June 8<sup>th</sup> 1998 (Third Meeting)

#### Romanian side:

Ministry of Water, Forests & Environmental Protection (MWFEP) Ms. Liliana Mara Director Ms. Liliana Bara Expert

Self Managed Public Company "Romanian Waters " – Bucharest Mr. Ion Pop Ms. Ana Drapa Team Leader of Project Project Coordinator

#### Japanese side

JICA Advisory Committee Mr. Kenichi Tanaka Mr. Mikio Tani

JICA Study Team Mr. Naohito Murata Mr. Susumu Heishi

#### Minutes of Meeting for the Progress Report (II) of the Study on the Master Plan for Water Environment Management on the Prahova River Basin

The JICA Study Team presented the Progress Report (II) of the captioned Master Plan Study to the MWFEP and the Report was discussed between JICA Study Team and the officials concerned of the Romanian Government. The participants of the meeting are listed in Annex.

Date : September 18, 1998 (Friday), 9:30 AM to 3:00 PM Place : Conference Room in MWFEP

The Progress Report (II) was accepted by the MWFEP with the following comments or agreements.

- 1. The river water quality is assessed under the standard flow rate of the river. The NTPA-001 defines the standard flow rate of the river as a minimum yearly mean monthly flow with a 95 % probability. JICA Study Team proposed a mean daily flow rate with a 50 % probability as a standard flow rate and estimated the required water pollution control cost. However, the final proposal will be made after an elaborate comparison of both cases including comparison of the required costs.
- 2. The Report concludes that the water supply development potentials of Paltinu and Maneciu reservoirs are enough large to meet the additional surface water demands at Voila and Valenii de Munte intakes respectively in Chapter V 5.2.2 (3). Both reservoirs can only meet the water demand in the middle and downstream areas in the Prahova River but can not cope with the water demand in the Prahova Valley with a higher ground elevation. This fact will be clearly mentioned to avoid misunderstanding of the readers.
- 3. The legal and institutional recommendations separately presented from the Report are accepted in principle. The contents of the recommendations will be more specified as far as possible.
- 4. Romanian side requested to determine the required minimum river flow rate (not river quality) to maintain the water related ecology. The Study Team replied that such river flow rate is different in every river section and the detailed ecological studies on

fauna and flora is necessary to determine such flow rate. Such studies are not included in the scope of this master plan study. The methodology on determination of such river flow rate has not been developed yet. However, the Study Team will introduce some reference documents for this matter to Romanian side if available in Japan.

Bucharest, September 18, 1998

Mr. Viorel Constantin Raicu Secretary of State Ministry of Water, Forests and Environmental Protection

Mr. Naohito Murata Leader, JICA Study Team

The meeting was held on September  $18^{th}$  1998 and the minutes of the meeting was signed on September  $21^{st}$  1998.

#### Minutes of Meeting for the Draft Final Report of the Study on the Master Plan for Water Environment Management on the Prahova River Basin

The meeting on the draft final report of the captioned Master Plan Study was held at the Conference Room in the MWFEP on November 16<sup>th</sup> 1998 from 2:00 PM to 4:00 PM with the attendance listed in Annex.

The JICA Study Team submitted the draft final report and presented the contents which include the followings:

- (1) Comparative study to decide standard flow rate, water supply area from the Paltinu and the Maneciu dams and detailed legal and institutional recommendation, which are study results based on the comments made in the meeting for the Progress Report (II), and
- (2) Phasing of the Master Plan, evaluation and recommendations, which are newly added in the draft final report

In addition to the above, the JICA study team submitted to the MWFEP and officials concerned the reference manual of instream flow needs (minimum flow rate for ecology) in Japan which was requested in the meeting for the Progress Report (II).

The draft final report was discussed between JICA Study Team and officials concerned of the Romanian Government and the report was accepted by the MWFEP without major comment.

Bucharest, November 18th, 1998

Mr. Viorel Constantin Raicu Sucretary of State Ministry of Water, Forests and Environmental Protection

Mr. Naohito Murata Leader JICA Study Team

Appendix

### LIST OF THE MEETING ATTENDANTS on November 16<sup>th</sup>, 1998

#### Romanian Side

· Ministry of Water, Forest and Environmental Protection (MWFEP)

Mr. Viorel Constantin Raicu Ms. Liliana Mara Mr. Cornel Mitoiu Mr. Gheorghe Constantin Ms. Ruxandra Balaet Secretary of State Director Chief State Inspector Expert Expert

Self Managed Public Company "Romanian Waters"

Mr. Petre Serban

Director

Japanese Side

JICA Advisory Committee

Mr. Kenich Tanaka Mr. Mikio Tani

### JICA

Mr. Kyoichiro Takada

JICA Study Team

Mr. Naohito Murata Mr. Sumumu Heishi Mr. Kinji Kaneko Mr. Hiroyuki Kotani

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