Description of Existing Intake Facilities

N' - (N'		-	f Existing Intal	TO A MONITOR		ting to the sign of the state o
No./Name	Ibema (We	ll) (Ibema)			i de distribuit de la company de la comp	aga ta aga an ang ang ang ang ang ang ang ang
<li>cation&gt;</li>				lou -	<del>, , , , , , , , , , , , , , , , , , , </del>	<del></del>
Basin	Source	Municipality	Proprietor	Others		
Iguacu		lbema	SANEPAR			
<description< td=""><td>of System&gt;</td><td></td><td></td><td>!</td><td></td><td></td></description<>	of System>			!		
Intake Metho		Intake Rate (O	peration hour)	Supply System	Supply Connection	Operation Year
Groundwater		-	(15.8 hours/day)		11.7	
Direct from 1	well		(Design rate)	ibema Area	4,534	Aug.1993
onter nem 1			(m3/hour)		•	(date of drilling)
<description< td=""><td>of Pipeline&gt;</td><td>L</td><td>(III3/ROZI)</td><td><u> </u></td><td>(minde trains)</td><td>(44.0 01 411.11.18)</td></description<>	of Pipeline>	L	(III3/ROZI)	<u> </u>	(minde trains)	(44.0 01 411.11.18)
Length	Diameter	Depth of Well	Intake Pump	Intermediate Pump	Others	
8		•	1 pump		Water head of pipelin	e is 134 m
3	200	150			Gross Water loss 34.9	%
(km)	(mm)	(m)				
		formations, if a	ny>			
<location m<="" th=""><th>an&gt;</th><th></th><th></th><th></th><th></th><th></th></location>	an>					
					Ibema Veli	

6

## Londrina

Description of Existing Intake Facilities No./Name Cohab Inegrado Well (2 wells) (Londrina) <Location> Basin Municipality Proprietor Others Source North Area Londrina SANEPAR Tibagi <Description of System> Intake Method Intake Rate (Operation hour) Supply Connection Operation Year Supply System 105.00 (2 wells, Max.) Groundwater Direct from 2 well (18 hours/day) North Area (m3/hour) (inhabitants) <Description of Pipeline> Intermediate Pump Others Diameter Depth of Well Intake Pump Length (inches) (km) <Future Plan / or Other informations, if any> wells were opearated before such as Vivi Xavier (1 well) and Sao Lourrenco (1 well), but no more operation. Future wells are not considered by SANEPAR except for individual demand water by farmer or factory. At present, 2 wells in Londrina and 3 wells in Cambe town are operating by SANEPAR. <Location Map> Cohab inegrado Wells

Description of Existing Intake Facilities

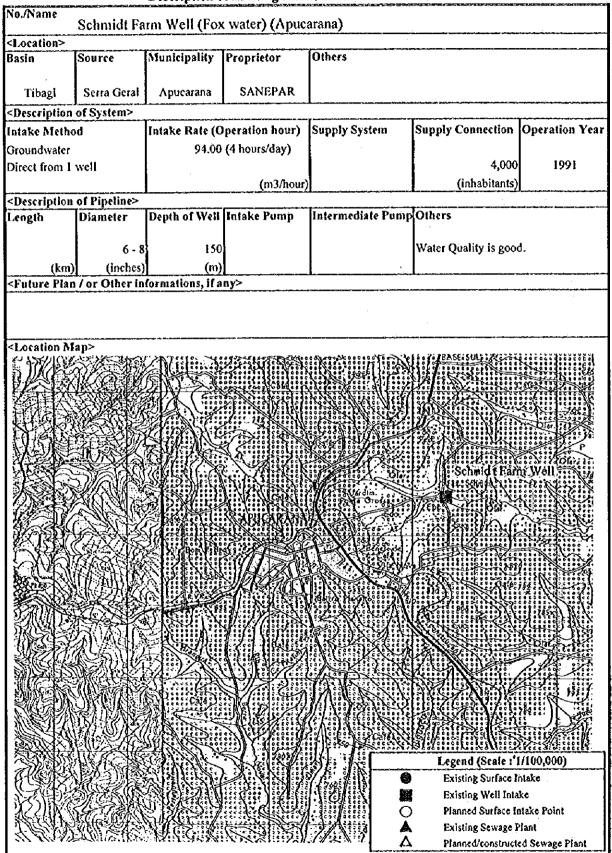
THE PROPERTY OF LINES, SPICES	geng waren werene en en en	Description o	f Existing Intal	ke Facilities		ransatana, marantana a
No./Name	Ibema (We	ll) (Ibema)				
<location></location>			anak menangan man bibahkilan kebilanan menangalan berbaian, badi			
Basin	Source	Municipality	Proprietor	Others		
Iguacu		Ibema	SANEPAR			
Description				r	r	
intake Metho	d	Intake Rate (O	-	Supply System	Supply Connection	Operation Yea
Groundwater			(15.8 hours/day)			
Direct from 1	well	35.00	`	lbema Area	4,534	_
<description< td=""><td>of Dinalina</td><td></td><td>(ni3/hour)</td><td></td><td>(inhabitants)</td><td>(date of drilling</td></description<>	of Dinalina		(ni3/hour)		(inhabitants)	(date of drilling
	Diameter	Depth of Well	Intake Pump	Intermediate Pump	Others	
,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1 pump	-	Water head of pipelin	e is 134 m
3	200	150	·		Gross Water loss 34.9	%
(km)	(mm)	(m)		<u> </u>		
<future plan<="" td=""><td>for Other in</td><td>formations, if a</td><td>ny&gt;</td><td></td><td></td><td></td></future>	for Other in	formations, if a	ny>			
Location Ma	2n>					
130-6					\$ 19/2 pt = 17 = \$\	NXXXX
March Control		619				ZA CO
		\$\$# <b>X</b> \$}\$\$			X/f(X) = 1, Z/f	
		1000			Ibema Weli	<i>x</i>
1411年7			18 J. 18 /		Districts	
<b>*</b>						iii/Z
		650-				21XW2417
COM		として				901 V
831	誤自己	9(7)				ATOVIN IN
到别			<b>经外间数据</b>	47.20		kenda / 22 mil
4.00		) ( (			866	
			Y Color View			
8/3/		656	<b>刀产的</b>			
		<b>マガ</b>		$^{\circ}$ $\Lambda$ $($ $($ $)$ $)$		
	2	335			1 VOY 1/2 M/2	
						FORMOVII
73/		<b>ゾ</b> () ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	2/342/19	// /		
	*848		Single Single	1 (B) (To)		
5//)		際。少に			Legend (Scale : 1	/50,000)
22(	6/11		<b>经生活用</b>		Existing Surface Ir	
(300-	J. J. [ ]		人人们现			
	大学		N-J-Will			take Point
	11/1/2	4-6-4		A A		
LE STORY	シニボボルス	<b>₩</b> #\$ 5 <b>\</b> 6 .⊞	amilian Kazaza		Planned'constructe	d Sewage Plant

(

	THE PROPERTY WHEN		ot Existing Intal	de Same and commentate and a series became and		NAME AND ADDRESS OF THE OWN OWN
	Cohab Ineg	grado Well (2	wells) (Londr	ina)		TO THE THE THE PERSON THE WAY SHOW A PRINT OF THE PERSON THE PERSO
<location></location>	,					
Basin	Source	Municipality	Proprietor	Others		
Tibagi	North Area	Londrina	SANEPAR			
<description< td=""><td>of System&gt;</td><td></td><td></td><td></td><td></td><td></td></description<>	of System>					
intake Metho	d	Intake Rate (C	Operation hour)	Supply System	Supply Connection	Operation Year
Groundwater	,	105.00	) ( 2 wells, Max.)			
Direct from 2 v	well		(18 hours/day)	North Area		
			(m3/hour)		(inhabitants)	l
<description< td=""><td></td><td></td><td></td><td></td><td></td><td></td></description<>						
Length	Diameter	Depth of Well	Intake Pump	Intermediate Pump	Others	
	ı					
i i						
(km)	(inches)					
		formations, if a				
1	•				ell), but no more opera	ition.
		_	_	vidual demand water b		
		na and 3 wells i	n Cambe town are	operating by SANEP	ΆR.	
<location ma<="" td=""><td>ip&gt; ∵`\\lo`</td><td>` <b>\</b></td><td>anes and</td><td>1: 1 1/1/2</td><td>л с 5 - Z ·</td><td>tm 1 k 5</td></location>	ip> ∵`\\lo`	` <b>\</b>	anes and	1: 1 1/1/2	л с 5 - Z ·	tm 1 k 5
		S S O MA CO.	Tyoung Co.	6	Wells Zzss	
		150 mm		LONDRINA	Legend (Scale : I/ Existing Surface In Existing Well Intak Planned Surface Int Existing Sewage Pl	take se take Point

## Apuçarana

Description of Existing Intake Facilities



## Ortigueira

Description of Existing Intake Facilities

<pre><location> Basin So  Tibagi <description 1="" <description="" direct="" from="" groundwater="" i<="" intake="" method="" of="" pre="" s="" wel=""></description></location></pre>	System> Pipeline> ameter Pipeline 60 mm r Other intell at treatm	Ortigueira  Intake Rate (O 5.00  Depth of Well 36 (m)  formations, if a	Proprietor  SANEPAR  peration hour) (10-12 h/day)  (m3/hour)  Intake Pump	Supply System Integrated sys. with Formigas	in reservor tank. (150  Supply Connection (1530) (inhabitants)  Others	
Tibagi <description (km)="" 0.15="" 1="" <description="" <future="" direct="" from="" groundwater="" i="" intake="" length="" method="" o<="" of="" plan="" s="" td="" wel=""><td>System&gt; Pipeline&gt; ameter Pipeline 60 mm r Other intell at treatm</td><td>Ortigueira  Intake Rate (O 5.00  Depth of Well 36 (m)  formations, if a</td><td>SANEPAR  peration hour) (10-12 h/day)  (m3/hour)  Intake Pump</td><td>Well locates near ma Supply System Integrated sys. with Formigas intake</td><td>Supply Connection (1530) (inhabitants)</td><td></td></description>	System> Pipeline> ameter Pipeline 60 mm r Other intell at treatm	Ortigueira  Intake Rate (O 5.00  Depth of Well 36 (m)  formations, if a	SANEPAR  peration hour) (10-12 h/day)  (m3/hour)  Intake Pump	Well locates near ma Supply System Integrated sys. with Formigas intake	Supply Connection (1530) (inhabitants)	
Tibagi <description (km)="" 0.15="" 1="" <description="" <future="" direct="" from="" groundwater="" i="" intake="" length="" method="" o<="" of="" plan="" s="" td="" wel=""><td>System&gt; Pipeline&gt; ameter Pipeline 60 mm r Other intell at treatm</td><td>Ortigueira  Intake Rate (O 5.00  Depth of Well 36 (m)  formations, if a</td><td>SANEPAR  peration hour) (10-12 h/day)  (m3/hour)  Intake Pump</td><td>Well locates near ma Supply System Integrated sys. with Formigas intake</td><td>Supply Connection (1530) (inhabitants)</td><td></td></description>	System> Pipeline> ameter Pipeline 60 mm r Other intell at treatm	Ortigueira  Intake Rate (O 5.00  Depth of Well 36 (m)  formations, if a	SANEPAR  peration hour) (10-12 h/day)  (m3/hour)  Intake Pump	Well locates near ma Supply System Integrated sys. with Formigas intake	Supply Connection (1530) (inhabitants)	
<pre><description (km)="" 0.15="" 1="" <description="" <future="" direct="" from="" groundwater="" i="" intake="" length="" method="" o<="" of="" plan="" pre="" s="" wel=""></description></pre>	Pipeline> ameter Pipeline 60 mm r Other in	Intake Rate (O 5.00 Depth of Well 36 (m)	peration hour) (10-12 h/day) (m3/hour) Intake Pump	Supply System Integrated sys. with Formigas intake	Supply Connection (1530) (inhabitants)	
Intake Method Groundwater Direct from 1 wel  Construction of I Length  0.15 (km)  Future Plan / 0	Pipeline> ameter Pipeline 60 mm r Other in	5.00  Depth of Well  36 (m)  formations, if a	(10-12 h/day) (m3/hour) Intake Pump	Integrated sys. with Formigas intake	(1530) (inhabitants)	Operation Year
Groundwater Direct from 1 wel  Constitution of J  Length  0.15 (km)  Constitution of J  C	Pipeline> ameter Pipeline 60 mm r Other in	5.00  Depth of Well  36 (m)  formations, if a	(10-12 h/day) (m3/hour) Intake Pump	Integrated sys. with Formigas intake	(1530) (inhabitants)	Operation Year
Olirect from 1 well  Oliver of I  Length  Oliver of I  Oliver of I  Compared to the I  Oliver of I  Compared to the I  Oliver of I  Oli	Pipeline> ameter Pipeline 60 mm r Other in	Depth of Well 36 (m) Formations, if a	(m3/hour) Intake Pump ny>	with Formigas intake	(inhabitants)	
<pre><description i="" length<="" of="" td=""><td>Pipeline&gt; ameter Pipeline 60 mm r Other in</td><td>36 (m) formations, if a</td><td>Intake Pump</td><td>intake</td><td>(inhabitants)</td><td></td></description></pre>	Pipeline> ameter Pipeline 60 mm r Other in	36 (m) formations, if a	Intake Pump	intake	(inhabitants)	
Length Dis	ameter Pipeline 60 mm r Other in	36 (m) formations, if a	Intake Pump			
O.15 (km) <future o<="" plan="" td=""><td>ameter Pipeline 60 mm r Other in</td><td>36 (m) formations, if a</td><td>ny&gt;</td><td>Intermediate Pump</td><td>Others</td><td></td></future>	ameter Pipeline 60 mm r Other in	36 (m) formations, if a	ny>	Intermediate Pump	Others	
0.15 (km) <future o<="" plan="" td=""><td>Pipeline 60 mm r Other in</td><td>36 (m) formations, if a</td><td>ny&gt;</td><td>Intermediate Pump</td><td>Others</td><td></td></future>	Pipeline 60 mm r Other in	36 (m) formations, if a	ny>	Intermediate Pump	Others	
(km) <future o<="" plan="" td=""><td>60 mm r Other in</td><td>(m) formations, if a</td><td></td><td></td><td></td><td></td></future>	60 mm r Other in	(m) formations, if a				
(km) <future o<="" plan="" td=""><td>r Other in</td><td>(m) formations, if a</td><td></td><td></td><td></td><td></td></future>	r Other in	(m) formations, if a				
<future o<="" plan="" td=""><td>ell at treatm</td><td>formations, if a</td><td></td><td></td><td></td><td></td></future>	ell at treatm	formations, if a				
	ell at treatm			L	<del>, . , </del>	<del></del>
			is not operated rec	ently.	*/	P MEDINAM and cardio of Madinations architect that the desire of an in-
<location map=""></location>	,				<u></u>	
			igas Intake	Ditigueira W	Eatro do Barnes  Legend (Scale : I/ Existing Surface Intexting Well Intext	100,000) lake
					Planned Surface Int Existing Sewage Pl Planned/constructed	ake Point

II-6 Planning Development Points in Iguaçu River Basin

No. 1&2	(Ira	ti,Piraquarall)					
(Location		X=686	Y=7185				
Basin		River		Municipality		Others	
lguacu		Piraquara	Piraquara				
	•						
(Descripti	on c	of Developmen	it Method)				
Developn	ient	Method	Q <sub>10,7</sub> x 50 %	Catchment Area	Supply Area	Supply house	Target Year
			0.46	226			
Direct In			(m³/sec)	(km	<sup>2</sup> ) (km <sup>2</sup> )	(houses)	
(Topogra	phic	Condition)		-		:	
EL.		Width	Riverbed	Riverbed Gradien	Foundation ty	pe/Others	
		1			1		•
	m)	(m)			<u> </u>		·
				ffected area of futu	re reservoir)		
House		Agriculture	Industry :	Others			
						•	
(Descripti	on i	of Facility)					
Height		Length	Crest EL.	Volume	Others		
						-	
(	m)	(m)	(m)	(m	5		
		of Pipeline)			34		
Head	T	Length	Diameter	Pumping capacity	Others		
				_	,	-	
(	m)	15,000 (m)	(mm)	(kv	<u>)                                       </u>		
			*			·	
				*			·
				•			
· - ,			ž.		•		
1		•					
				;	•		
			-				
		•		•			·
		•					
			•				
		6.00					

**Location of Planning Development Points** Scale: 1/200,000 No. 1 & 2 (Irai, Piraquara II) (Location) X =686 Y=7185 Municipality Others River Basin Piraquara Piraquara Iguacu LEGEND 口 Dam CANDIDA Δ Intake Point O Treatment Plant Supply Reservoir Pipeline PEPRESA DO RIGA CAPÃO CROSSO REGIONAL ARIBOH

No. 3 (Pequ	eno)					
(Location)	X=681	Y=718	to the formal of the second of			
Basin	River		Municipality		Others	
Iguacu	Pequeno	Curitiba				
(Description	of Developme	nt Method)		er der som finde frame som er		**************************************
Developmen		Q <sub>19.7</sub> x 50 %	Catchment Area	Supply Area	Supply house	Target Year
		0.255	110.0			,
Direct Intake	<b>)</b>	(m³/sec)	(km²)	(km²)	(houses)	
(Topographi	c Condition)		-			
EL.	Width	Riverbed	Riverbed Gradient	Foundation type	pe/Others	
		•		·		
(m)			<u></u>			
	Agriculture	Industry	ffected area of future Others	e reservoir)		····
House	Agriconule	industry	Caners			
					:	
(Description	of Facility)		<u>.</u>	<u> </u>		
Height	Length	Crest EL.	Volume	Others		
		1				
(m)	(m)	(m)	(m³)			
(Description						· · · · · · · · · · · · · · · · · · ·
Head	Length	Diameter	Pumping capacity	Others		
(m)	8,000 (m)	(mm)	(kw)		•	
(11)	8,000 (11)	(IIIII)	(X14)			
					•	
				*.		
	:					
				•		
					•	
,						
	•				21	
					•	
	e Service Constitution		· · · · · · · · · · · · · · · · · · ·		•	
					•	
			<i>:</i>			
:		e de la companya de				
		•	= ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±			
			:			
				et in the		
CHARLES CHILD THE COURSE	CONTRACTOR CONTRACTOR SAFETY AND ASSESSMENT	V100 4 1-1-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	and the state of t		probabilities the company of higher periods for pulse participation of the company of	

Location of Planning Development Points Scale: 1/200,000 No. 3 (Pequeno) Y =7181 (Location) X = 681Basin River Municipality Others Iguacu Curitiba Pequeno LEGEND Dam Δ Intake Point 0 Treatment Plant A CANDIDA Supply Reservoir Pipeline

CAPÃO GROSSO No. 3 (Pequeno) BARRO PRETO REPRESA DO RIO P-IGUACU.XLSMap

СНОВІВА

No. 4 (Alto	Miringuaya)					
(Location)	X=685	Y=7167				
Basin	River	·	Municipality		Others	
Iguacu	Miringuava		Sao Jose Dos Pinha	is		
(Description	of Developmer					
Development	Method	Q <sub>10,7</sub> x 50 %	Catchment Area	Supply Area	Supply house	Target Year
	į	0.195	97.1			
Direct Intake		(m³/sec)	(km²)	(km²)	(houses)	
(Topographic			74.4			
EL.	Width	Riverbed	Riverbed Gradient	Foundation type	pe/Others	
					•	
(m)	(m)	L		L		-
			ffected area of future	e reservoir)		· · · · · · · · · · · · · · · · · · ·
House	Agriculture	Industry	Others			
						1
(Description	of Facility)					
Height	Length	Crest EL.	Volume	Others		
				J	·	
(m)	(m)	(m)	(m³)			
(Description					1.50	
Head	Length	Diameter	Pumping capacity	Others		
(m)	23,500 (m)	(mm)	(kw)	l		<del></del>
		•				· · · · · · · · · · · · · · · · · · ·
		•			•	
	·			1		•
		ing the second s				
						:
		•			•	
	-					
4					•	
			•		v - 1	
		* .				
			• • • • • • • • • • • • • • • • • • •			
			•			$M = \{j, k\}$
		•	-	•	A Company of the Comp	
				,		
	in the second			ŧ.	ė.	
			•			

Location of Planning Development Points Scale: 1/200,000 No. 4 (Alto Miringuava) X =685 Y =7167 (Location) Others Municipality River Basin Miringuava Sao Jose Dos Pinhais Iguacu LEGEND  $\Box$ Dam PILARZINHO Δ Intake Point O Treatment Plant Supply Reservoir Pipeline CAPÃO GRO REGIONALA СНОВІВА CAMPINA DO TAQUARA

P-IGUACU.XLSMap

(Location)	X=675	Y=7165	and the second second			
Basin	River		Municipality		Others	erainment in a section of the sectio
Iguacu	Cotia		Sao Jose Dos Pinha	is		
(Description	of Developme	nt Method)	and the second state of th			
Developmen	t Method	Q <sub>10,7</sub> x 50 %	Catchment Area	Supply Area	Supply house	Target Year
		0.21	154.7			
Dam Intake		(m³/sec)	(km²)	(km²)	(houses)	,
(Topographi	c Condition)					
EL.	Width	Riverbed	Riverbed Gradient	Foundation ty	pe/Others	
(m) (Land Lise /L			ffected area of future	reservoir)		**************************************
House	Agriculture	Industry	Others	103011011)		······································
110030	/ Igiteanu.v	industry .			÷	
(Description	of Facility)					
Height	Length	Crest EL.	Volume	Others		
(m)	(m)	(m)	(m³)			
	of Pipeline)			•	:	
Head	Length	Diameter	Pumping capacity	Others		
()	12 600 ()	(,,,,,,	<b>a</b>			
(m)	13,500 (m)	(mm)	(kw)	ļ	· · · · · · · · · · · · · · · · · · ·	
				* -		•
	-		· ·			
		· · · · · · · · · · · · · · · · · · ·				9
•				-	•	
* 1 *				•		
			•			
				٠.	-	
		W. Committee		4		
	* .		**. **			
					•	
				-		
	1		* .			
1.0						

Location of Planning Development Points No. 5 (Cotia Despique) Scale: 1/200,000 X =675 Y=7165 (Location) Basin River Municipality Others Iguacu Cotia Sao Jose Dos Pinhais LEGEND Dam Δ Intake Point 0 Treatment Plant Supply Reservoir Pipeline **С**Но́<u>в</u>іву No. 5 (Cotia Despique)

LARGO P-IGUACU.XLSMap

No. 6 (Alto	Mauricia)		The state of the s			
		V-0153				<del></del>
(Location)	X=670	Y=7153	1.2	·	I	
Basin	River		Municipality		Others	
lguacu	Mauricio	•	Mandirituba		•	
·						
(Description	of Developme	nt Method)			<u> </u>	
Developmen	t Method	Q <sub>10.7</sub> x 50 %	Catchment Area	Supply Area	Supply house	Target Year
	100	0.05			```	
Dam Intake		(m³/sec)			(houses)	
(Topographi	c Condition)	(117500)	(Kitt.)	(811)	(llouses)	
EL.	Wioth	Riverbed	Riverbed Gradient	Poundation to	na/Othara	
LU.	With	Kircioca	Kiveroed Gradieni	roundation ty	De/Officis	
(m)	(m)					
			l ffected area of future	racaruair)		
House	Agriculture	Industry	Others	reservon		
110030	Agriculture	lindustry	Officia			•
(Description	of Racility)	L.,				<del></del>
Height	Length	Crest EL.	Volume	Others	<del></del>	
rieight	Lengui	Clest EL.	VUIUITE	Omers		· · · · · · · · · · · · · · · · · · ·
()	(ma)	()	(3 <sub>\</sub>			
(m)	(m)	(m)	(m³)			
(Description Head		<u> </u>		0.1		
неао	Length	Diameter	Pumping capacity	Others		
(m)	32,000 (m)	()	os			
(111)	32,000 (III)	(mm)	(kw)			· · · · · · · · · · · · · · · · · · ·
* .						- N -
						٠.
						•
•		÷ .	. *		•	
•			•			
				1		
				*		
			*			
						· .
		en e				
			:	•		•
			•			
			w. *			
	1	•				
		1				
					*	

**Location of Planning Development Points** No. 6 (Alto Mauricio) Scale: 1/200,000 Y =7153 (Location) X =670 River Municipality Others Basin Mandirituba lguacu Mauricio LEGEND  $\Box$ Dam Δ Intake Point O Treatment Plant Supply Reservoir Pipeline Сновівч

P-IGUACU XLSMap

No. 7 (Dos	Oncas(Mandir	ituba))			<u> </u>	neminren samen proprieta e estatui an initra silvina M
(Location)	X=665	Y=7158				
Basin	River		Municipality		Others	
lguacu	Mauricio		Mandirituba			
(Description	of Developme	nt Method)				
Developmen	t Method	Q <sub>10,7</sub> x 50 %	Catchment Area	Supply Area	Supply house	Target Year
		0.04	29.0			
Dam Intake		(m³/sec)	(km²)	(km²)	(houses)	
	c Condition)					
EL.	Width	Riverbed	Riverbed Gradient	Foundation typ	oe/Others	
	<b>l</b>					
(m)			· · · · · · · · · · · · · · · · · · ·	<u> </u>		
(Land Use /I	reservation Cn Agriculture	Industry	fected area of future Others	e reservoir)		
riouse	Agriculture	industry	Onleis			
		en gerier		•		4 - 4
(Description	of Facility)					
Height	Length	Crest EL.	Volume	Others		<u> </u>
(m)		(m)	(m³)			
(Description						
Head	Length	Diameter	Pumping capacity	Others	i .	
. ()	26 600 (***)	(,,,,,,)	(kw)		6	
<b>(</b> m)	26,500 (m)	(mm)	(KW)	<u>L</u>		· · · · · · · · · · · · · · · · · · ·
e.*		•				
		:		:		
				2		
				:		
i i	:	i .				
			•			
						·
,			*			
		- ·				
1					:	
					:	
					•	·
				Samuel		
:						
y .						
1 1 1 1 1 1 1		A ST GENERAL STREET			,	
	1	i de la companya della companya della companya de la companya della companya dell				

**Location of Planning Development Points** No. 7 (Dos Oncas (Mandirituba)) Scale: 1/200,000 Y =7158 Municipality (Location) X =665 River Basin Others Mandirituba Mauricio Iguacu ARIBOH CAMPO SECONDO No. 7 (Dos Oncas (Mandirituba )) LEGEND  $\Box$ Dam Δ Intake Point Treatment Plant Supply Reservoir Pipeline

P-IGUACU XLSMap

Santan Barris Bergeranden						*****
No. 8 (Faxi						:
(Location)	X=663	Y=7162				
Basin	River	·	Municipality		Others	
Iguacu	Faxinal		Araucaria			
(Description	of Developmen	it Method)	:			
Developmen		Q <sub>10,7</sub> x 50 %	Catchment Area	Supply Area	Supply house	Target Year
		0.085			***	
Dam Intake		(m³/sec)			(houses)	
(Topographic	c Condition)	(1111000)		()	(	
EL.	Width	Riverbed	Riverbed Gradient	Foundation tyr	ne/Others	
		.* .		7		
(m)	(m)					
		aracteristics, at e	fected area of future	reservoir)		أستقطيك كالوسياب مساومة وساويه الكني سوجياها وج
House	Agriculture	Industry	Others			
						1
(Description	of Facility)					
Height	Length	Crest EL.	Volume	Others	· 	
(m)		<b>(</b> m)	(m <sup>3</sup> )			
(Description						
Head	Length	Diameter	Pumping capacity	Others		
				•		•
<u>(m)</u>	13,000 (m)	(mm)	(kw)			
4				d.		
				and the second		
		***				\hlipsi
				•	•	
		4.0				
	e. 4e.					
						•
		•				
-			1		•	
ŀ						
100						
		*,	•			
	•				* **	
* 1						
- -	*				<i>i</i>	
					· ·	. *
			*			1

**Location of Planning Development Points** Scale: 1 / 200,000 No. 8 (Faxinal) X=663 Y=7162
River Corrego Municipality (Location) Others Basin Araucaria iguaçu Faxinal LEGEND Dam Δ Intake Point O Treatment Plant Supply Reservoir Pipeline COL CRISTINA REERESA GO RIO VERDE Ò

P-IGUACU.XLSMap

**Description of Planning Development Points** No. 9 (Dos Oncas(Contenda)) (Location) X=653 Y=7167 Basin River Municipality Others Dos Oncas lguaçu Araucaria (Description of Development Method) Development Method Q<sub>10.7</sub> x 50 % Catchment Area Supply Area Supply house Target Year 0.1 75.6 Dam Intake (m³/sec) (km<sup>2</sup>)(km<sup>2</sup>)(houses) (Topographic Condition) Width Riverbed Riverbed Gradient | Foundation type/Others (m) (m) (Land Use /Preservation Characteristics, at effected area of future reservoir) Others House Agriculture Industry (Description of Facility) Others Height. Length Crest EL. Volume (m) (m)(m) (m<sup>3</sup>)(Description of Pipeline) Head Length Diameter Pumping capacity Others (m) 13,000 (m) (mm) (kw)

**Location of Planning Development Points** Scale: 1/200,000 No. 9 (Dos Oncas (Contenda)) (Location) X = 653Y=7167 River Municipality Others Basin Araucaria Iguaçu Dos Oncas LEGEND COLÔNIA REBOUÇAS  $\Box$ Dam Δ Intake Point Treatment Plant Supply Reservoir Pipeline COL CHISTINA BEPHESA ON AID VEHOL No. 9 (Dos Oncas (Contenda)

P-IGUACU.XLSMap

Exercise was a series of the series				Particular Course	,	
No. 10 (P						
(Location)	X=650	Y=7166				
Basin	River		Municipality		Others	
lguacu	Piunduva		Arancaria			
(Description	of Developmen	nt Method)			I	
Developmen		Q <sub>10,7</sub> x 50 %	Catchment Area	Supply Area	Supply house	Target Year
		0.035	1		coppy nonce	
Dam Intake	* * * * * * * * * * * * * * * * * * *	(m³/sec)			(houses)	
	c Condition)	(111750)	( <u>, (viii )</u>	(Kitt )	(Houses)	
EL.	Width	Riverbed	Riverbed Gradient	Foundation tyr	ne/Others	
(m)	(m)				•	
(Land Use /F		aracteristics, at et	fected area of future	reservoir)		
House	Agriculture	Industry	Others	i	· · · · · · · · · · · · · · · · · · ·	
			·			
				<u> </u>		
(Description						
Height	Length	Crest EL.	Volume	Others		
					*	·
(m)		(m)	(m³)			
(Description						
Head	Length	Diameter	Pumping capacity	Others		
	10.000 ( .)			·		
. (m)	18,000 (m)	(mm)	(kw)			
	$(x_i)_{i \in I} \in \mathcal{F}_{i+1} \cap \mathcal{F}_{i}$				•	
* *	100					
			•			
*.		*				
:			•			
	* * * *				*	
	i i					
· · · · · · · · · · · · · · · · · · ·	* 2					
i.	:					
•			•	•		
. !	٠					
	3	;				
		†				j
	£ .	*		,		
		•				
		1	•			

**Location of Planning Development Points** No. 10 (Piunduva) Scale: 1/200,000 X =650 (Location) Y=7166 Municipality River Others Basin Piunduva Arancaria lguacu LEGEND Dam Δ Intake Point O Treatment Plant Supply Reservoir Pipeline COL CRISTINA RESA DO HIO VERDE ATANDUVAS GAPOEIRA GRANDE PHIRATEIRO

P-IGUACU XLSMap

		December of	k ranning meretup	THE POLICE				
No. S-C1.								
(Location)	X=257	Y=7224						
Basin	River	:	Municipality		Others			
Iguacu	Rio São Jose		Cascavel					
ř.	•					·		
(Description	of Developmer	it Method)			<u></u>			
Development		Q <sub>10.7</sub> x 50 %	Catchment Area	Supply Area	Supply house	Target Year		
o recopilion.		0.3						
Direct Intake		(m <sup>3</sup> /sec)	(km²)	(km²)	(houses)			
(Topographic		(18 7800)	L	(Kiii )	(nouses)			
EL.		Riverbed	Riverbed Gradient	Foundation tyr	oc/Others	<del></del>		
DD.	771001	raveloca	rayvioed Gradient	r oundation ty	o cincio			
510 (m)	(m)	ye el se			* * * * * * * * * * * * * * * * * * * *	*		
		aracteristics, at e	ffected area of future	e reservoir)				
House	Agriculture		Others			1 1		
			and the second					
(Description	of Facility)			·				
Height	Length	Crest EL.	Volume	Others				
(m)	(m)	(m)	(m³)					
(Description	of Pipeline)							
Head	Length	Diameter	Pumping capacity	Others				
	-			·				
100 (m)	13,000 (m)	(mm)	(kw)					
		1	•					
	Connect to Ex	isting Intake Sys	tem	•				
	Section 1							
	800		1					
				. *				
	700	•						
	EL.(m) 600							
	÷ 600							
	E	//		•	•			
	500							
	400	L	1					
	400	5.						
	eta, earlie	2100	3400 4200 5700	\$100	•	•		
		60 6	y 4	8 8				
	Distance (m)							
νωιαικό (πι)								
				\$				
			1000		* 4			
			100	and the second				
		<u> </u>		·	,			

**Location of Planning Development Points** No. S-CI Scale: 1/50,000 (Location) Y =7224 X =257 River Municipality Basin Others Iguacu Rio Sao Jose Cascavel Legenő (Scale: 1/50,000) Existing Surface Intake **3** Existing Well Intake 0 Planned Surface Intake Point Existing Sewage Plant Planned/constructed Sewage Plant

P-IGUACU XLSMap

•

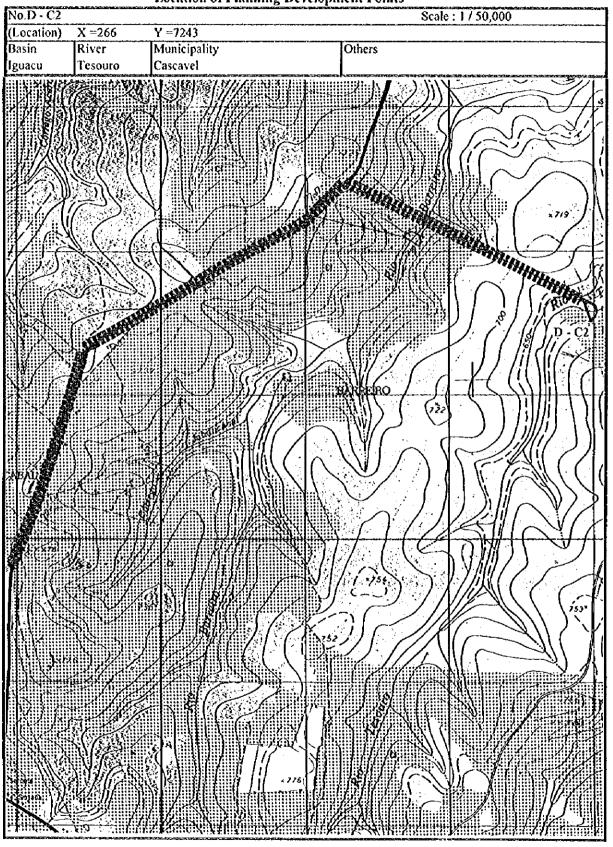
		Description of	rianning nevelop	ment roms		
No. D-C1			~- <del></del>			
(Location)	X=264	Y=7244				
Basin	River		Municipality		Others	
Iguacu	Barreiro		Cascavel			
	<u></u>					
	of Developmer					
Development	l Method	Volume	Catchment Area	Supply Area	Supply house	Target Year
		0.55				
Dam Intake		(m³/sec)	(km²)	(km²)	(houses)	
(Topographic						
EL.	Width	Riverbed	Riverbed Gradient	Foundation typ	oc/Others	
618 (m)				L		
			ffected area of future	e reservoir)		
House	Agriculture	Industry	Others			
(Description	of Facility	L				
Height	Length	Crest EL.	Volume	Others	· · · · · · · · · · · · · · · · · · ·	
neigni	LCHgui	Citat EL.	volume	Omers		
24 (m)	600 (m)	642 (m)	799,000 (m³)			
(Description		042 (111)	777,000 (III )			
Head	Length	Diameter	Pumping capacity	Others		
reau	Lugui	Diameter	t dioping capacity	Others		
125 (m)	8,200 (m)	(mm)	(kw)			
	750 700 (a) 650 550 500	\$00 I	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	7400 + 7900 +		
						•
	•					
	ON THE PARTY OF THE PARTY OF THE PARTY.				and the state of t	o e ne nove ima objet da primer

**Location of Planning Development Points** No.D - C1 Scale: 1/50,000 Y =7244 Municipality (Location) X =264 River Others Basin Barreiro Cascavel lguacu

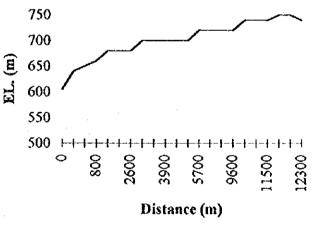
P-IGUACU.XLSMap

No. D-C2		nescribiton or	rianang peretop	THE PURIS			
	X=266	Y=7243					
Basin	River	1 (27.)	Municipality		Others		
	Tesouro		Cascavel		Others		
Iguaçu	resoure		Cascarci				
(Description	of Developmer	nt Method)			L		
Development		Volume	Catchment Area	Supply Area	Supply house	Target Year	
Perciopinent	MCHIOG	0.35		authi vica	Supply nouse	Taigu Itai	
Dam Intake		(m <sup>3</sup> /sec)	(km²)	(km²)	(houses)		
(Topographic	Condition)	(1117500)	(((((((((((((((((((((((((((((((((((((((	(киі)	[ (Houses)	L	
EL.	Width	Riverbed	Riverbed Gradient	Foundation tyr	oc/Others		
		12,0.004	Tarota Omaiont	. Januaron ty	pe. omero		
628 (m)	(m)						
(Land Use /P	reservation Ch	aracteristics, at e	ffected area of future	e reservoir)			
House	Agriculture	Industry	Others				
<u> </u>	diam 141. 1				<del></del>		
(Description		C E/	N. 1	04.			
Height	Length	Crest EL.	Volume	Others			
22.4 (m)	500 (m)	650,4 (m)	585,000 (m³)				
(Description		030,4 (11)	265,000 (111 )				
Head	Length	Diameter	Pumping capacity	Others			
			amping capacity	viv			
106 (m)	11,500 (m)	(mm)	(kw)				
750 700 (a) 650 550 550 500 + + + + + + + + + + + + + + + + + +							
Distance (m)							
		•					
		•					

**Location of Planning Development Points** 



**Description of Planning Development Points** No. D-C3 (Location) X=266 Y=7247 River Basin Municipality Others Barreiro Cascavel lguacu (Description of Development Method) Development Method Volume Catchment Area Supply Area Supply house Target Year 0.69 83 Dam Intake (m³/sec) (km<sup>2</sup>)(km²). (houses) (Topographic Condition) EL. Width Riverbed Riverbed Gradient | Foundation type/Others 605 (m) (m) (Land Use /Preservation Characteristics, at effected area of future reservoir) House Agriculture Industry Others (Description of Facility) Crest EL. Length Volume Height Others 14.5 (m) 500 (m) 619.5 (m) 320,000 (m<sup>3</sup>) (Description of Pipeline) Head Length Diameter Pumping capacity Others 135 (m) 12,300 (m) (mm) (kw) 750 700 650

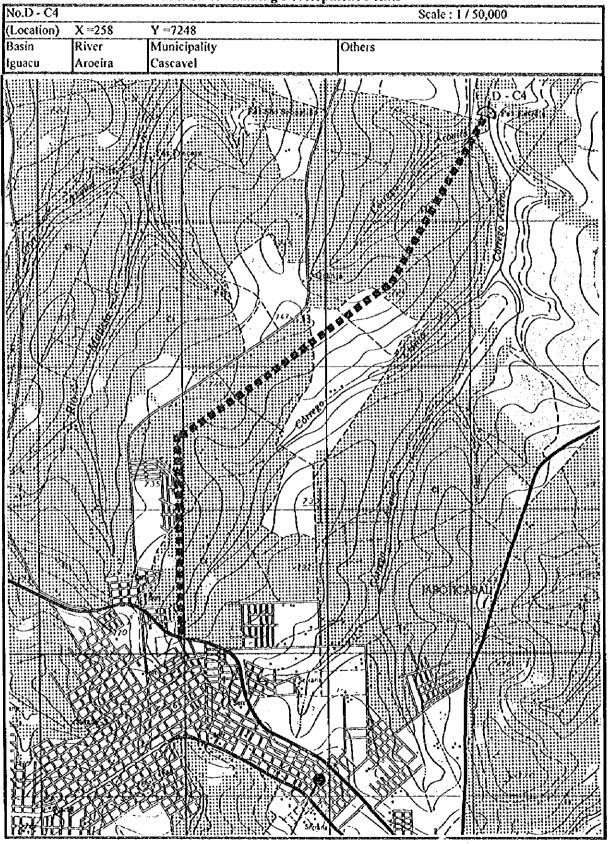


**Location of Planning Development Points** Scale: 1/50,000 No.D - C3 Y =7247 X =266 River (Location) Municipality Others Basin Barreiro Cascavel Iguacu

P-IGUACU.XLSMap

***************************************		And in the second second second					
No. D-C4				·		~	
	X=258	Y=7248					
Basin	River		Municipality	ļ	Others		
Iguacu	Arocira		Cascavel		•		
ľ							
Description	of Developmer	t Method)					
Development		Volume	Catchment Area	Supply Area	Supply house	Target Year	
Bereiophicit	received	0.6			ouppry nouse	raiger rear	
Dam Intake		(m³/sec)			45		
(Topographic	Condition	(in /sec)	(km²)	(km²)	(houses)	L	
	Width	Riverbed	Riverbed Gradient	F	/Others		
CL,	Width	Riveroed	Kiveroca Gradient	roungation typ	De/Others		
620	(m)						
	(m)	aracteristics at a	ffected area of future				
House			Others	e reservoir)			
nouse	Agriculture	Industry	Otners				
(D	- C D 114- A						
(Description		O 121	T. 1				
Height	Length	Crest EL.	Volume	Others			
27.64	400.4.						
27.5 (m)	600 (m)	647.5 (m)	1,035,000 (m <sup>3</sup> )				
(Description		les i	r <u>.                                    </u>			·····	
Head .	Length	Diameter	Pumping capacity	Others			
00 ()	7.100 ()	(	45				
90 (m)	7,100 (m)	(mm)	(kw)	<del></del>	······································		
	800						
	0		*				
				_			
	<b>→</b> 700	· · · /			•		
	چ						
	EL.(m)						
	F≥ 600						
	500	<del>                                      </del>		l			
	300						
		° 00 00	3500	0069			
				F &			
Distance (m)							
-							
		•					
					•		
		and the second s		a Department and an application of the control of t			

**Location of Planning Development Points** 



	of the State of th	Description of	rianning Develop				
No. D-C5 (Location)				·			
	X=244	Y=7244					
Basin	River		Municipality		Others		
Iguacu	Antos		Cascavel				
(Description	of Developmer	it Method)					
Development	t Method	Volume	Catchment Area	Supply Area	Supply house	Target Year	
		0.69	68.9				
Dam Intake		(m³/sec)	(km²)	(km²)	(houses)		
(Topographic							
EL.	Width	Riverbed	Riverbed Gradient	Foundation typ	oe/Others		
610 (m)				L		· · · · · · · · · · · · · · · · · · ·	
			ffected area of future	e reservoir)			
House	Agriculture	Industry	Others				
(Description	of Facility)						
Height	Length	Crest EL.	Volume	Others			
		01121 22.					
20 (m)	450 (m)	630 (m)	473,000 (m³)		•		
(Description		4		<u> </u>			
Head	Length	Diameter	Pumping capacity	Others			
	·						
90 (m)	6,700 (m)	(mm)	(kw)	·			
	700	•		,			
	650	_	/ \_				
	E 600						
	អ្ន						
	550						
	330						
	500	<u></u>		I 1 I I			
	300				•		
		0 200 500 500	3800	8			
Distance (m)							
	•						

Location of Planning Development Points Scale: 1 / 50,000 No.D - C5 Y =7244 Municipality Cascavel (Location) Basin X =244 River Others Antos Iguacu

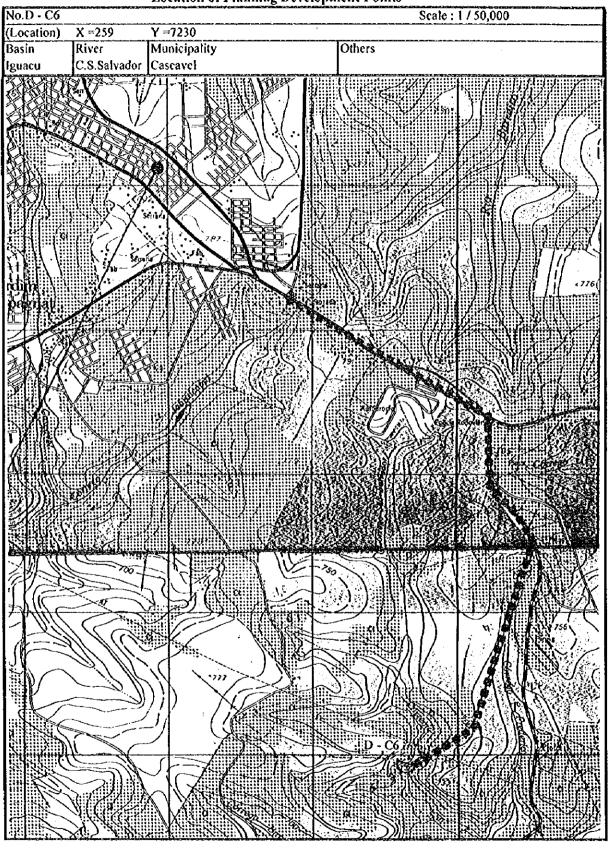
P-IGUACU.XLSMap

6

Description of Planning Development Points

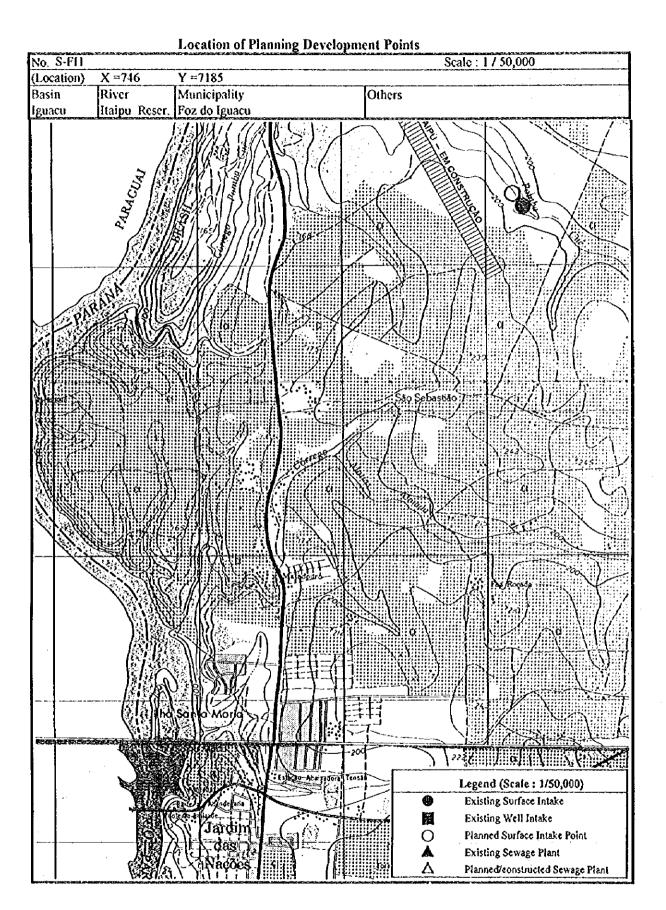
		Description of	Transmig Develot	ment i omis		
No. D-C6						
(Location)	X=259	Y=7230				
Basin	River :		Municipality Others			
Iguacu	C.S.Salvador	1 · · · · · · · · · · · · · · · · · · ·				
(Description	of Developmer	it Method)				
Development		Volume	Catchment Area	Supply Area	Supply house	Target Year
•		0.2				
Dam Intake		(m³/sec)	(km²)		(houses)	
(Topographic	c Condition)		<u> </u>			
EL.	Width	Riverbed	Riverbed Gradient	Foundation ty	oe/Others	
	·					
630 (m)	(m)			l		
(Land Use /P	reservation Ch	aracteristics, at c	ffected area of futur	e reservoir)		
House	Agriculture	Industry	Others			
(Description						
Height	Length	Crest EL.	Volume	Others		
			,			
25,2 (m)		655.2 (m)	438,000 (m <sup>3</sup> )	<u> </u>		
(Description				<u> </u>		
Head	Length	Diameter	Pumping capacity	Others		
•••			41.			
140 (m)	9,200 (m)	(mm)	(kw)	l		
-						
					•	
						•
·	800		-			
·		•				
	: 700					
	ੇ <b>ਭ</b> ੇ <sup>700</sup>					
	EL.(m)					
•	를 <sup>600</sup>					
	;					
÷ .						
	500	<b>}</b>				
		900	3500	8 8		
- "	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	300	3500	8100		
				-		
		•	Distance (m)			
	J. 4		•			
	.*					
		•				
	•	•				
	. :					
		The second secon				

**Location of Planning Development Points** 



**Description of Planning Development Points** 

No. S-FII	_	***************************************			and the Constitution of the Party of the Constitution of the Const	
	V-714	V-7105				
(Location)	X=746	Y=7185	15.2		Г <u>а.</u>	
Basin	River		Municipality		Others	
Iguacu	Itaipu Reservo	oi <b>r</b>	Foz do Iguacu			
(Description	of Developmer	it Method)		<u> </u>		
Development	Method	Q <sub>10,7</sub> x 50 %	Catchment Area	Supply Area	Supply house	Target Year
Direct Intake	i	(m³/sec)	(km²)	(km²)	(houses)	
(Topographic	Condition)	<u> </u>	L <u></u>			
EL.	Width	Riverbed	Riverbed Gradient	Foundation tyr	oe/Others	······································
180 (m)	(m)					
(Land Use /P	reservation Ch	aracteristics, at e	ffected area of future	e reservoir)		
House	Agriculture	Industry	Others			
(Description						
Height	Length	Crest EL.	Volume	Others		
			_			i
(m)	(m)	(m)	(m³)			
(Description						
Head	Length	Diameter	Pumping capacity	Others		
20.1						
20 (m)	1,900(m)	(mm)	(kw)			
	increase of Ex	isting Intake Syst	em			·
		•		•		
	300					
	€ 250					
	È					
	(원 250 - 금 200					
	150					
	100					
		0	820	5860		
			Distance (m)			
			Distance (m)			
	4					
		-				
			CONTRACTOR CONTRACTOR STATEMENT OF CONTRACTOR			A A STATE OF THE S



**Description of Planning Development Points** No. S-G1 X=454 Y=7186 (Location) Others Basin River Municipality Guarapuava Iguacu Rio Bananas (Description of Development Method) Development Method Q<sub>10.7</sub> x 50 % Catchment Area Supply Area Supply house Target Year 0.63 704 (m<sup>3</sup>/sec) Direc Intake (km²) (km<sup>2</sup>)(houses) (Topographic Condition) Riverbed Riverbed Gradient Foundation type/Others EL. Width 960 (m) (m) (Land Use /Preservation Characteristics, at effected area of future reservoir) House Agriculture Industry Others (Description of Facility) Crest EL. Volume Others Height Length  $(m^3)$ (m) (m) (m) (Description of Pipeline) Head Length Diameter Pumping capacity Others 200 (m) 4,800 (m) (mm) 1200 1100 1000 900 800 700 600 500 H Distance (m)

**Location of Planning Development Points** No. S-G1 Scale: 1/50,000 X=454 River (Location) Y =7186 Basin Municipatity Others Rio Bananas Iguacu Guarapuaya Legend (Scale: 1/50,000) Existing Surface Intake Existing Well Intake Ö Planned Surface Intake Point **Existing Sewage Plant** Planned/constructed Sewage Plant

P-IGUACU.XLSMap

**Description of Planning Development Points** 

	nt Method) Q <sub>10,7</sub> x 50 % 0.013 (m³/sec) Riverbed		(km²)	Others Supply house (houses)	Target Year			
River Rio Represa C of Developmen Method Condition Width (m) reservation Ch	orande  nt Method)  Q <sub>10,7</sub> x 50 %  0.013  (m³/sec)  Riverbed	Medianeira  Catchment Area  14.2  (km²)	(km²)	Supply house	Target Year			
Rio Represa Conf Development Method  Condition) Width  (m) reservation Ch	nt Method) Q <sub>10,7</sub> x 50 % 0.013 (m³/sec) Riverbed	Medianeira  Catchment Area  14.2  (km²)	(km²)	Supply house	Target Year			
of Development Method  Condition)  Width  (m)  reservation Ch	nt Method) Q <sub>10,7</sub> x 50 % 0.013 (m³/sec) Riverbed	Catchment Area 14.2 (km²)	(km²)		Target Year			
Method Condition) Width (m) reservation Ch	Q <sub>10,7</sub> x 50 % 0,013 (m³/sec) Riverbed	14.2 (km²)	(km²)		Target Year			
Method Condition) Width (m) reservation Ch	Q <sub>10,7</sub> x 50 % 0,013 (m³/sec) Riverbed	14.2 (km²)	(km²)		Target Year			
Condition) Width (m) reservation Ch	0.013 (m³/sec) Riverbed	14.2 (km²)	(km²)					
Condition) Width (m) reservation Ch	(m³/sec) Riverbed	(km²)	(km²)	(houses)				
Condition) Width (m) reservation Ch	Riverbed							
Width (m) reservation Ch		Riverbed Gradient						
reservation Ch			Foundation typ	xe/Others				
reservation Ch		<b> </b>						
		ffected area of future	e reservoir)					
	Industry	Others						
of Facility)	L	<u>L. i </u>						
Length	Crest EL.	Volume	Others	· · · · · · · · · · · · · · · · · · ·				
(m)	(m)	(m³)						
of Pipeline)								
Length	Diameter	Pumping capacity	Others					
_								
82 (m) 5,900 (m) (num) (kw)]  (Respondence of the content of the c								
	1	150 100	0 00 00 00 00 00 00 00 00 00 00 00 00 0	0 00 4 23 4 4 800 60 60 60 60 60 60 60 60 60 60 60 60 6	0 00 00 00 00 00 00 00 00 00 00 00 00 0			

**Location of Planning Development Points** No. S-M1 Scale: 1/50,000 Y =7194 Municipality (Location) Basin X =790 River Rio Others Medianeira Iguacu Represa G. Legend (Scale : 1/50,000) Existing Surface Intake S. Existing Well Intake Planned Surface Intake Point **Existing Sewage Plant** Planned/constructed Sewage Plant Medianeira

P-IGUACU.XLSMap

**Description of Planning Development Points** No. S-M2 (Location) X=792 Y=7194 Basin River Municipality Others Corrego Sango Funda Mediancira Iguacu (Description of Development Method) Q<sub>10.7</sub> x 50 % Development Method Catchment Area Supply Area Target Year Supply house 0.017 18.9 Direct Intake (m³/sec) (km<sup>2</sup>)(km<sup>2</sup>)(houses) (Topographic Condition) Width Riverbed Riverbed Gradient | Foundation type/Others 273 (m) (m) (Land Use /Preservation Characteristics, at effected area of future reservoir) House Agriculture Industry Others (Description of Facility) Crest EL: Volume Others Height Length  $(m^3)$ (m) (m)(m) (Description of Pipeline) Head Length Diameter Pumping capacity Others 167.(m) 4,700 (m) (mm) (kw) 450 400 350 300 250 200 150 100 F Distance (m)

**Location of Planning Development Points** No. S·M2 Scale: 1 / 50,000 (Location) Basin Y =7194 X =792 River Corrego Municipality Others Sango Funda Medianeira lguacu Legend (Scale: 1/50,000) Existing Surface Intake Existing Well Intake Planned Surface Intake Point **Existing Sewage Plant** Planned/eonstructed Sewage Plant Medianeira

Patrick Control and the same		Description of	Planning Develor	ment roms			
No. S-M3							
(Location)	X=791	Y=7192					
Basin	River		Municipality		Others		
!guaçu	Corrego Sol de Ouro		Medianeira				
_							
(Description	of Developmer	nt Method)		<del></del>	<del> </del>		
Development Method Q <sub>10.7</sub> x 50 %		Catchment Area	Supply Area	Supply house	Target Year		
•		0.01	10.8			J. 1 2 - 1 - 1 - 1	
Direct Intake		(m³/sec)	(km²)	(km²)	(houses)		
(Topographic		1	<u> </u>	()	(		
EL.	Width	Riverbed	Riverbed Gradient	Foundation tyr	oc/Others		
				, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,		
260 (m)	(m)						
			ffected area of future	e reservoir)			
House	Agriculture	Industry	Others				
	_	·					
(Description							
Height	Length	Crest EL.	Volume	Others			
(m)	(m)	(m)	(m³)				
(Description							
Head	Length	Diameter	Pumping capacity	Others			
00 ()	C 000 ()	()	a				
90 (m)	6,900 (m)	(mm)	(kw)				
	•						
	3:	50					
	30	00 /					
	Ê ~						
	E 29	50					
	面 20	00					
	4.6	=0					
	13	50					
	10	00		1-1-1			
		0 . 2400. 4300.	5800	0089	,		
		7 4		3 W W			
	٠		Distance (m)	<b>)</b>		-	
· · · · · · · · · · · · · · · · · · ·							
	of property of the state of the						