

7. WATER SOURCE DEVELOPMENT

7.1 General

Table 7.1.1
Water Source Information

Content: Water Sources - General Information		Page : 1 of 1	Date:	Filename: h20-res.xls	
Data Collection Level: Municipal		Prov. No. : 0128	Shtname: (M) General Information		
Region Number: 01		Prov. Name: Ilocos Norte	Form No. : M 4.1		
Type of Source		Shallow Well	Deep Well	Spring	
General Information	1/ Total Number of Source	#	16,183	574	189
	Implementation				
	2/ Government Agency	#	2,136	473	189
	3/ Private	#	14,047	101	0
	Usage				
	4/ Drinking	#	15,642	460	188
	5/ Washing/Bathing	#	15,642	485	179
	6/ Gardening	#	11,581	439	152
	7/ Irrigation	#	709	17	20
	8/ Industrial	#	30	0	0
	Water Quality				
	9/ High Iron/Manganese Content	#	0	0	0
	10/ High Chloride Content	#	0	0	0
11/ Turbidity/Color/Smell	#	70	68	10	
Production					
12/ Less/No Water in dry season	#	2,364	0	14	
13/ Usable through the year	#	13,179	466	169	
Well Information	Technical				
	14/ Diameter < 100 mm (4")	#			
	15/ Diameter >= 100 mm (4")	#			
	16/ SWL < 5 m below ground	#	1,747	5	0
	17/ SWL >= 5 m below ground	#	1,536	54	0
	18/ Specific Capacity < 3 m ³ /hr/m	#			
	19/ Specific Capacity >= 3 m ³ /hr/m	#			
	20/ B-Value < 1,000 s/m ³	#			
	21/ B-Value < 1,000 s/m ³	#			
	22/ C-Value < 60,000 s ² /m ⁶ (Well Loss Const.)	#			
23/ C-Value >= 60,000 s ² /m ⁶	#				
Aquifer Information	Technical				
	24/ T-Value < 0.001 m ² /s	#			
	25/ T-Value >= 0.001 m ² /s	#			
	26/ S-Value < 0.01	#			
	27/ S-Value >= 0.01	#			
	Geology				
	28/ Alluvial Formation	#			
	29/ Volcanic Formation	#			
30/ Limestone Formation	#				
31/ Sandstone Formation	#				
32/ Other Sediment Formation	#				
Spring Info.	Technical				
	33/ Minimum Yield < 10 m ³ /h	#	0	0	18
	34/ Minimum Yield >= 10 m ³ /h	#	0	14	21
	Other				
	35/ Tapped Using Gravity	#	0	0	189
36/ Undeveloped Using Gravity	#	0	0	16	
37/ Untapped Spring	#	0	0	3	

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Water Sources - General Information		Page : 1 of 1	Date:	Filename: b20-res.xls					
Data Collection Level: Municipal		Prov. No. : 0128		Shtname: (M) General Information					
Region Number: 01		Prov. Name: Ilocos Norte		Form No. : M4.1					
Municipal Number/Municipal Name		Adams/012801			Bacarra/012802				
Type of Source		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring		
General Information	1/ Total Number of Source	#	0	0	1	735	34	3	
	Implementation								
	2/ Government Agency	#			1	8	33	3	
	3/ Private	#				727	1		
	Usage								
	4/ Drinking	#			1	735	30	3	
	5/ Washing/Bathing	#			1	735	30	3	
	6/ Gardening	#			1	735	30	3	
	7/ Irrigation	#			1				
	8/ Industrial	#				28			
	Water Quality								
	9/ High Iron/Manganese Content	#							
	10/ High Chloride Content	#							
11/ Turbidity/Color/Smell	#								
Production									
12/ Less/No Water in dry season	#				15				
13/ Usable through the year	#			1	735	30	3		
Well Information	Technical								
	14/ Diameter < 100 mm (4")	#							
	15/ Diameter >= 100 mm (4")	#							
	16/ SWL < 5 m below ground	#				735			
	17/ SWL >= 5 m below ground	#							
	18/ Specific Capacity < 3 m ³ /hr/m	#							
	19/ Specific Capacity >= 3 m ³ /hr/m	#							
	20/ B-Value < 1,000 s/m ³	#							
	21/ B-Value >= 1,000 s/m ³	#							
	22/ C-Value < 60,000 s ² /m ⁶ (Well Loss Const.)	#							
23/ C-Value >= 60,000 s ² /m ⁶	#								
Aquifer Information	Technical								
	24/ T-Value < 0.001 m ² /s	#							
	25/ T-Value >= 0.001 m ² /s	#							
	26/ S-Value < 0.01	#							
	27/ S-Value >= 0.01	#							
	Geology								
	28/ Alluvial Formation	#							
29/ Volcanic Formation	#								
30/ Limestone Formation	#								
31/ Sandstone Formation	#								
32/ Other Sediment Formation	#								
Spring Info.	Technical								
	33/ Minimum Yield < 10 m ³ /h	#							
	34/ Minimum Yield >= 10 m ³ /h	#						3	
	Other								
	35/ Tapped Using Gravity	#			1			3	
36/ Undeveloped Using Gravity	#								
37/ Untapped Spring	#								

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Water Sources - General Information		Page : 1 of 1	Date:	Filename: h20-res.xls					
Data Collection Level: Municipal		Prov. No. : 0128	Shtname: (M) General Information						
Region Number: 01		Prov. Name: Ilocos Norte		Form No. : M4.1					
Municipal Number/Municipal Name		Badoc/012803			Bangui/012804				
Type of Source		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring		
General Information	1/ Total Number of Source	#	70	68	10	353	15	16	
	Implementation								
	2/ Government Agency	#	70	68	10	77	15	16	
	3/ Private	#				276			
	Usage								
	4/ Drinking	#	70	68	10	337	14	16	
	5/ Washing/Bathing	#	70	68	10	337	14	16	
	6/ Gardening	#	70	68	10	337	14	16	
	7/ Irrigation	#							
	8/ Industrial	#							
	Water Quality								
	9/ High Iron/Manganese Content	#							
	10/ High Chloride Content	#							
11/ Turbidity/Color/Smell	#	70	68	10					
Production									
12/ Less/No Water in dry season	#						14		
13/ Usable through the year	#	70	68	10	337	14	2		
Well Information	Technical								
	14/ Diameter < 100 mm (4")	#							
	15/ Diameter >= 100 mm (4")	#							
	16/ SWL < 5 m below ground	#		5		337			
	17/ SWL >= 5 m below ground	#	70	6			14		
	18/ Specific Capacity < 3 m ³ /hr/m	#							
	19/ Specific Capacity >= 3 m ³ /hr/m	#							
	20/ B-Value < 1,000 s/m ³	#							
	21/ B-Value < 1,000 s/m ³	#							
	22/ C-Value < 60,000 s ² /m ⁶ (Well Loss Const.)	#							
23/ C-Value >= 60,000 s ² /m ⁶	#								
Aquifer Information	Technical								
	24/ T-Value < 0.001 m ² /s	#							
	25/ T-Value >= 0.001 m ² /s	#							
	26/ S-Value < 0.01	#							
	27/ S-Value >= 0.01	#							
	Geology								
	28/ Alluvial Formation	#							
29/ Volcanic Formation	#								
30/ Limestone Formation	#								
31/ Sandstone Formation	#								
32/ Other Sediment Formation	#								
Spring Info.	Technical								
	33/ Minimum Yield < 10 m ³ /h	#						12	
	34/ Minimum Yield >= 10 m ³ /h	#						4	
	Other								
	35/ Tapped Using Gravity	#			10				16
36/ Undeveloped Using Gravity	#			2					
37/ Untapped Spring	#								

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Water Sources - General Information		Page : 1 of 1	Date:	Filename: h20-res.xls					
Data Collection Level: Municipal		Prov. No. : 0128	Shtname: (M) General Information						
Region Number: 01		Prov. Name: Ilocos Norte		Form No. : M4.1					
Municipal Number/Municipal Name		Batac/012805			Burgos/012806				
Type of Source		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring		
General Information	1/ Total Number of Source	#	1,319	30	9	241	24	7	
	Implementation								
	2/ Government Agency	#	386	30	9	12	24	7	
	3/ Private	#	933			229			
	Usage								
	4/ Drinking	#	1,297	26	9	238	17	7	
	5/ Washing/Bathing	#	1,297	26	9	238	17	7	
	6/ Gardening	#	1,297	26	9	238	17	7	
	7/ Irrigation	#			9		17		
	8/ Industrial	#							
	Water Quality								
	9/ High Iron/Manganese Content	#							
	10/ High Chloride Content	#							
11/ Turbidity/Color/Smell	#								
Production									
12/ Less/No Water in dry season	#	276			44				
13/ Usable through the year	#	1,021	26	9	198	17	7		
Well Information	Technical								
	14/ Diameter < 100 mm (4")	#							
	15/ Diameter >= 100 mm (4")	#							
	16/ SWL < 5 m below ground	#							
	17/ SWL >= 5 m below ground	#							
	18/ Specific Capacity < 3 m ³ /hr/m	#							
	19/ Specific Capacity >= 3 m ³ /hr/m	#							
	20/ B-Value < 1,000 s/m ³	#							
	21/ B-Value >= 1,000 s/m ³	#							
	22/ C-Value < 60,000 s ² m ⁶ (Well Loss Const.)	#							
23/ C-Value >= 60,000 s ² m ⁶	#								
Aquifer Information	Technical								
	24/ T-Value < 0.001 m ² /s	#							
	25/ T-Value >= 0.001 m ² /s	#							
	26/ S-Value < 0.01	#							
	27/ S-Value >= 0.01	#							
	Geology								
	28/ Alluvial Formation	#							
29/ Volcanic Formation	#								
30/ Limestone Formation	#								
31/ Sandstone Formation	#								
32/ Other Sediment Formation	#								
Spring Info.	Technical								
	33/ Minimum Yield < 10 m ³ /h	#							
	34/ Minimum Yield >= 10 m ³ /h	#							
	Other								
	35/ Tapped Using Gravity	#			9			7	
36/ Undeveloped Using Gravity	#			1			2		
37/ Untapped Spring	#								

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Water Sources - General Information		Page : 1 of 1	Date:	Filename: h20-res.xls					
Data Collection Level: Municipal		Prov. No. : 0128	Shtname: (M) General Information						
Region Number: 01		Prov. Name: Hocos Norte	Form No. : M 4.1						
Municipal Number/Municipal Name		Carassi/012807			Corrimao/012808				
Type of Source		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring		
General Information	1/ Total Number of Source	#	15	0	6	549	19	0	
	Implementation								
	2/ Government Agency	#	6		6	89	16		
	3/ Private	#	9			460	3		
	Usage								
	4/ Drinking	#	15		6	549	14		
	5/ Washing/Bathing	#	15		6	549	14		
	6/ Gardening	#	15		6	549	14		
	7/ Irrigation	#							
	8/ Industrial	#							
	Water Quality								
	9/ High Iron/Manganese Content	#							
	10/ High Chloride Content	#							
11/ Turbidity/Color/Smell	#								
Production									
12/ Less/No Water in dry season	#								
13/ Usable through the year	#	15							
Well Information	Technical								
	14/ Diameter < 100 mm (4")	#							
	15/ Diameter >= 100 mm (4")	#							
	16/ SWL < 5 m below ground	#							
	17/ SWL >= 5 m below ground	#	15						
	18/ Specific Capacity < 3 m ³ /hr/m	#							
	19/ Specific Capacity >= 3 m ³ /hr/m	#							
	20/ B-Value < 1,000 s/m ³	#							
	21/ B-Value >= 1,000 s/m ³	#							
	22/ C-Value < 60,000 s ² /m ⁶ (Well Loss Const.)	#							
23/ C-Value >= 60,000 s ² /m ⁶	#								
Aquifer Information	Technical								
	24/ T-Value < 0.001 m ² /s	#							
	25/ T-Value >= 0.001 m ² /s	#							
	26/ S-Value < 0.01	#							
	27/ S-Value >= 0.01	#							
	Geology								
	28/ Alluvial Formation	#							
29/ Volcanic Formation	#								
30/ Limestone Formation	#								
31/ Sandstone Formation	#								
32/ Other Sediment Formation	#								
Spring Info.	Technical								
	33/ Minimum Yield < 10 m ³ /h	#							
	34/ Minimum Yield >= 10 m ³ /h	#					14		
	Other								
	35/ Tapped Using Gravity	#			6				
36/ Undeveloped Using Gravity	#						3		
37/ Untapped Spring	#								

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

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Data Collection Level: Municipal		Prov. No. : 0128	Sheetname: (M) General Information						
Region Number: 01		Prov. Name: Ilocos Norte	Form No. : M 4.1						
Municipal Number/Municipal Name		Dingras/012809			Dumalneg/012810				
Type of Source		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring		
General Information	1/ Total Number of Source	#	216	8	7	2	0	2	
	Implementation								
	2/ Government Agency	#	17	8	7	2		2	
	3/ Private	#	199						
	Usage								
	4/ Drinking	#	216	3	7			2	
	5/ Washing/Bathing	#	216	3	7			2	
	6/ Gardening	#	216	3	7			2	
	7/ Irrigation	#	216						
	8/ Industrial	#							
	Water Quality								
	9/ High Iron/Manganese Content	#							
	10/ High Chloride Content	#							
11/ Turbidity/Color/Smell	#								
Production									
12/ Less/No Water in dry season	#								
13/ Usable through the year	#	216	6	7			2		
Well Information	Technical								
	14/ Diameter < 100 mm (4")	#							
	15/ Diameter >= 100 mm (4")	#							
	16/ SWL < 5 m below ground	#							
	17/ SWL >= 5 m below ground	#							
	18/ Specific Capacity < 3 m ³ /hr/m	#							
	19/ Specific Capacity >= 3 m ³ /hr/m	#							
	20/ B-Value < 1,000 s/m ³	#							
	21/ B-Value < 1,000 s/m ³	#							
	22/ C-Value < 60,000 s ² /m ⁶ (Well Loss Const.)	#							
23/ C-Value >= 60,000 s ² /m ⁶	#								
Aquifer Information	Technical								
	24/ T-Value < 0.001 m ² /s	#							
	25/ T-Value >= 0.001 m ² /s	#							
	26/ S-Value < 0.01	#							
	27/ S-Value >= 0.01	#							
	Geology								
	28/ Alluvial Formation	#							
29/ Volcanic Formation	#								
30/ Limestone Formation	#								
31/ Sandstone Formation	#								
32/ Other Sediment Formation	#								
Spring Info.	Technical								
	33/ Minimum Yield < 10 m ³ /h	#						4	
	34/ Minimum Yield >= 10 m ³ /h	#							
	Other								
	35/ Tapped Using Gravity	#			7			2	
36/ Undeveloped Using Gravity	#								
37/ Untapped Spring	#			1					

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Water Sources - General Information		Page : 1 of 1	Date:	Filename: h20-res.xls					
Data Collection Level: Municipal		Prov. No. : 0128	Shtname: (M) General Information						
Region Number: 01		Prov. Name: Ilocos Norte	Form No. : M 4.1						
Municipal Number/Municipal Name		Espiritu/012811			Laoag City/012812				
Type of Source		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring		
General Information	1/ Total Number of Source	#	149	70	2	2,090	111	6	
	Implementation								
	2/ Government Agency	#	53	29	2	482	58	6	
	3/ Private	#	96	41		1,608	53		
	Usage								
	4/ Drinking	#	139	17	2	2,045	109	6	
	5/ Washing/Bathing	#	139	47	2	2,045	109	6	
	6/ Gardening	#	139	47	2	2,045	109	6	
	7/ Irrigation	#							
	8/ Industrial	#							
	Water Quality								
	9/ High Iron/Manganese Content	#							
	10/ High Chloride Content	#							
11/ Turbidity/Color/Smell	#								
Production									
12/ Less/No Water in dry season	#				834				
13/ Usable through the year	#	139	47	2	1,211	109	6		
Well Information	Technical								
	14/ Diameter < 100 mm (4")	#							
	15/ Diameter >= 100 mm (4")	#							
	16/ SWL < 5 m below ground	#							
	17/ SWL >= 5 m below ground	#							
	18/ Specific Capacity < 3 m ³ /hr/m	#							
	19/ Specific Capacity >= 3 m ³ /hr/m	#							
	20/ B-Value < 1,000 s/m ²	#							
	21/ B-Value < 1,000 s/m ²	#							
	22/ C-Value < 60,000 s ² /m ⁶ (Well Loss Const.)	#							
23/ C-Value >= 60,000 s ² /m ⁶	#								
Aquifer Information	Technical								
	24/ T-Value < 0.001 m ² /s	#							
	25/ T-Value >= 0.001 m ² /s	#							
	26/ S-Value < 0.01	#							
	27/ S-Value >= 0.01	#							
	Geology								
	28/ Alluvial Formation	#							
29/ Volcanic Formation	#								
30/ Limestone Formation	#								
31/ Sandstone Formation	#								
32/ Other Sediment Formation	#								
Spring Info.	Technical								
	33/ Minimum Yield < 10 m ³ /h	#			2				
	34/ Minimum Yield >= 10 m ³ /h	#							
	Other								
	35/ Tapped Using Gravity	#			2			6	
36/ Undeveloped Using Gravity	#						2		
37/ Untapped Spring	#								

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Water Sources - General Information		Page : 1 of 1	Date:	Filename: h20-res.xls					
Data Collection Level: Municipal		Prov. No. : 0128	Shtname: (M) General Information						
Region Number: 01		Prov. Name: Ilocos Norte	Form No. : M 4.1						
Municipal Number/Municipal Name		Marcos/012813			Nueva era/012814				
Type of Source		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring		
General Information	1/ Total Number of Source	#	437	11	5	16	15	10	
	Implementation								
	2/ Government Agency	#	253	11	5	16	15	10	
	3/ Private	#	184						
	Usage								
	4/ Drinking	#	427	5	5	11	10	10	
	5/ Washing/Bathing	#	427	5	5	11	10	10	
	6/ Gardening	#	84	5	1	11			
	7/ Irrigation	#							
	8/ Industrial	#							
	Water Quality								
	9/ High Iron/Manganese Content	#							
	10/ High Chloride Content	#							
11/ Turbidity/Color/Smell	#								
Production									
12/ Less/No Water in dry season	#	86							
13/ Usable through the year	#	427	5	5	11	10	10		
Well Information	Technical								
	14/ Diameter < 100 mm (4")	#							
	15/ Diameter >= 100 mm (4")	#							
	16/ SWL < 5 m below ground	#				11			
	17/ SWL >= 5 m below ground	#					10		
	18/ Specific Capacity < 3 m ³ /hr/m	#							
	19/ Specific Capacity >= 3 m ³ /hr/m	#							
	20/ B-Value < 1,000 s/m ³	#							
	21/ B-Value < 1,000 s/m ³	#							
	22/ C-Value < 60,000 s ² /m ⁶ (Well Loss Const.)	#							
23/ C-Value >= 60,000 s ² /m ⁶	#								
Aquifer Information	Technical								
	24/ T-Value < 0.001 m ² /s	#							
	25/ T-Value >= 0.001 m ² /s	#							
	26/ S-Value < 0.01	#							
	27/ S-Value >= 0.01	#							
	Geology								
	28/ Alluvial Formation	#							
	29/ Volcanic Formation	#							
30/ Limestone Formation	#								
31/ Sandstone Formation	#								
32/ Other Sediment Formation	#								
Spring Info.	Technical								
	33/ Minimum Yield < 10 m ³ /h	#							
	34/ Minimum Yield >= 10 m ³ /h	#						10	
	Other								
	35/ Tapped Using Gravity	#			5			10	
36/ Undeveloped Using Gravity	#			3			1		
37/ Untapped Spring	#								

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Water Sources - General Information		Page : 1 of 1	Date:	Filename: h20-res.xls					
Data Collection Level: Municipal		Prov. No. : 0128	Shtname: (M) General Information						
Region Number: 01		Prov. Name: Ilocos Norte		Form No. : M 4.1					
Municipal Number/Municipal Name		Pagudpud/012815			Paoy/012816				
Type of Source		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring		
General Information	1/ Total Number of Source	#	171	11	15	4,104	36	1	
	Implementation								
	2/ Government Agency	#	108	11	15	75	36	1	
	3/ Private	#	63			4,029			
	Usage								
	4/ Drinking	#	162	8	15	3,732	36	1	
	5/ Washing/Bathing	#	162	8	15	3,732	36	1	
	6/ Gardening	#	162	8	15	14		1	
	7/ Irrigation	#				363		1	
	8/ Industrial	#				1			
	Water Quality								
	9/ High Iron/Manganese Content	#							
	10/ High Chloride Content	#							
	11/ Turbidity/Color/Smell	#							
Production									
12/ Less/No Water in dry season	#								
13/ Usable through the year	#	162	8	15	3,732	36	1		
Well Information	Technical								
	14/ Diameter < 100 mm (4")	#							
	15/ Diameter >= 100 mm (4")	#							
	16/ SWL < 5 m below ground	#							
	17/ SWL >= 5 m below ground	#							
	18/ Specific Capacity < 3 m ³ /hr/m	#							
	19/ Specific Capacity >= 3 m ³ /hr/m	#							
	20/ B-Value < 1,000 s/m ³	#							
	21/ B-Value >= 1,000 s/m ³	#							
	22/ C-Value < 60,000 s ² /m ⁶ (Well Loss Const.)	#							
23/ C-Value >= 60,000 s ² /m ⁶	#								
Aquifer Information	Technical								
	24/ T-Value < 0.001 m ² /s	#							
	25/ T-Value >= 0.001 m ² /s	#							
	26/ S-Value < 0.01	#							
	27/ S-Value >= 0.01	#							
	Geology								
	28/ Alluvial Formation	#							
	29/ Volcanic Formation	#							
30/ Limestone Formation	#								
31/ Sandstone Formation	#								
32/ Other Sediment Formation	#								
Spring Info.	Technical								
	33/ Minimum Yield < 10 m ³ /h	#							
	34/ Minimum Yield >= 10 m ³ /h	#							
	Other								
	35/ Tapped Using Gravity	#			15			1	
36/ Undeveloped Using Gravity	#								
37/ Untapped Spring	#			1					

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Water Sources - General Information		Page : 1 of 1	Date:	Filename: h20-res.xls				
Data Collection Level: Municipal		Prov. No. : 0128	Sitname: (M) General Information					
Region Number: 01		Prov. Name: Ilocos Norte	Form No. : M 4.1					
Municipal Number/Municipal Name		Pasuquin/012817			Piddig/012818			
Type of Source		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring	
General Information	1/ Total Number of Source	# 1,848	15	9	515	15	7	
	Implementation							
	2/ Government Agency	# 84	15	9	60	15	7	
	3/ Private	# 1,764			455			
	Usage							
	4/ Drinking	# 1,833	12	9	513	13	6	
	5/ Washing/Bathing	# 1,833	12	9	513	13	6	
	6/ Gardening	# 1,833	12		513	13	6	
	7/ Irrigation	# 70		9	58			
	8/ Industrial	#						
	Water Quality							
	9/ High Iron/Manganese Content	#						
	10/ High Chloride Content	#						
11/ Turbidity/Color/Smell	#							
Production								
12/ Less/No Water in dry season	# 764							
13/ Usable through the year	# 1,069	12	9	513		7		
Well Information	Technical							
	14/ Diameter < 100 mm (4")	#						
	15/ Diameter >= 100 mm (4")	#						
	16/ SWL < 5 m below ground	# 664						
	17/ SWL >= 5 m below ground	# 1,169						
	18/ Specific Capacity < 3 m ³ /hr/m	#						
	19/ Specific Capacity >= 3 m ³ /hr/m	#						
	20/ B-Value < 1,000 s/m ³	#						
	21/ B-Value >= 1,000 s/m ³	#						
	22/ C-Value < 60,000 s ² /m ⁶ (Well Loss Const.)	#						
23/ C-Value >= 60,000 s ² /m ⁶	#							
Aquifer Information	Technical							
	24/ T-Value < 0.001 m ² /s	#						
	25/ T-Value >= 0.001 m ² /s	#						
	26/ S-Value < 0.01	#						
	27/ S-Value >= 0.01	#						
Geology								
28/ Alluvial Formation	#							
29/ Volcanic Formation	#							
30/ Limestone Formation	#							
31/ Sandstone Formation	#							
32/ Other Sediment Formation	#							
Spring Info.	Technical							
	33/ Minimum Yield < 10 m ³ /h	#						
	34/ Minimum Yield >= 10 m ³ /h	#						
	Other							
	35/ Tapped Using Gravity	#		9			7	
36/ Undeveloped Using Gravity	#		1					
37/ Untapped Spring	#					1		

LEGEND: # - Specify figure

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Water Sources - General Information		Page : 1 of 1	Date:	Filename: h20-res.xls					
Data Collection Level: Municipal		Prov. No. : 0128	Shiname: (M) General Information						
Region Number: 01		Prov. Name: Ilocos Norte		Form No. : M 4.1					
Municipal Number/Municipal Name		Pinar/012819			San Nicolas/012820				
Type of Source		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring		
General Information	1/ Total Number of Source	#	1,064	5	0	122	25	6	
	Implementation								
	2/ Government Agency	#	143	5		62	22	6	
	3/ Private	#	921			60	3		
	Usage								
	4/ Drinking	#	1,064	5		103	21	6	
	5/ Washing/Bathing	#	1,064	5		103	21	6	
	6/ Gardening	#	1,064	5		103	21	6	
	7/ Irrigation	#							
	8/ Industrial	#							
	Water Quality								
	9/ High Iron/Manganese Content	#							
	10/ High Chloride Content	#							
	11/ Turbidity/Color/Smell	#							
	Production								
12/ Less/No Water in dry season	#								
13/ Usable through the year	#	1,064	5		103	21	6		
Well Information	Technical								
	14/ Diameter < 100 mm (4")	#							
	15/ Diameter >= 100 mm (4")	#							
	16/ SWL < 5 m below ground	#							
	17/ SWL >= 5 m below ground	#							
	18/ Specific Capacity < 3 m ³ /hr/m	#							
	19/ Specific Capacity >= 3 m ³ /hr/m	#							
	20/ B-Value < 1,000 s/m ³	#							
	21/ B-Value < 1,000 s/m ³	#							
	22/ C-Value < 60,000 s ² /m ⁶ (Well Loss Const.)	#							
23/ C-Value >= 60,000 s ² /m ⁶	#								
Aquifer Information	Technical								
	24/ T-Value < 0.001 m ² /s	#							
	25/ T-Value >= 0.001 m ² /s	#							
	26/ S-Value < 0.01	#							
	27/ S-Value >= 0.01	#							
	Geology								
	28/ Alluvial Formation	#							
29/ Volcanic Formation	#								
30/ Limestone Formation	#								
31/ Sandstone Formation	#								
32/ Other Sediment Formation	#								
Spring Info.	Technical								
	33/ Minimum Yield < 10 m ³ /h	#							
	34/ Minimum Yield >= 10 m ³ /h	#							
	Other								
	35/ Tapped Using Gravity	#						6	
36/ Undeveloped Using Gravity	#								
37/ Untapped Spring	#								

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Water Sources - General Information		Page : 1 of 1	Date:	Filename: h20-res.xls				
Data Collection Level: Municipal		Prov. No. : 0128	Sheetname: (M) General Information					
Region Number: 01		Prov. Name: Ilocos Norte		Form No. : M 4.1				
Municipal Number/Municipal Name		Sarrat/012821			Solsona/012822			
Type of Source		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring	
General Information	1/ Total Number of Source	#	1,866	25	4	19	7	9
	Implementation							
	2/ Government Agency	#	70	25	4	7	7	9
	3/ Private	#	1,796			12		
	Usage							
	4/ Drinking	#	1,855	23	4	19	5	9
	5/ Washing/Bathing	#	1,855	23	4	19		
	6/ Gardening	#	1,855	23		19		
	7/ Irrigation	#	2					
	8/ Industrial	#	1					
	Water Quality							
	9/ High Iron/Manganese Content	#						
	10/ High Chloride Content	#						
	11/ Turbidity/Color/Smell	#						
	Production							
12/ Less/No Water in dry season	#	345						
13/ Usable through the year	#	1,855	23	4	19	5	9	
Well Information	Technical							
	14/ Diameter < 100 mm (4")	#						
	15/ Diameter >= 100 mm (4")	#						
	16/ SWL < 5 m below ground	#						
	17/ SWL >= 5 m below ground	#						
	18/ Specific Capacity < 3 m ³ /hr/m	#						
	19/ Specific Capacity >= 3 m ³ /hr/m	#						
	20/ B-Value < 1,000 s/m ¹	#						
	21/ B-Value >= 1,000 s/m ¹	#						
	22/ C-Value < 60,000 s ² /m ⁶ (Well Loss Const.)	#						
23/ C-Value >= 60,000 s ² /m ⁶	#							
Aquifer Information	Technical							
	24/ T-Value < 0.001 m ² /s	#						
	25/ T-Value >= 0.001 m ² /s	#						
	26/ S-Value < 0.01	#						
	27/ S-Value >= 0.01	#						
	Geology							
	28/ Alluvial Formation	#						
29/ Volcanic Formation	#							
30/ Limestone Formation	#							
31/ Sandstone Formation	#							
32/ Other Sediment Formation	#							
Spring Info.	Technical							
	33/ Minimum Yield < 10 m ³ /h	#						
	34/ Minimum Yield >= 10 m ³ /h	#			4			
	Other							
	35/ Tapped Using Gravity	#			4			9
36/ Undeveloped Using Gravity	#			1				
36/ Undeveloped Using Gravity	#							
37/ Untapped Spring	#							

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Water Sources - General Information		Page : 1 of 1	Date:	Filename: h20-res.xls				
Data Collection Level: Municipal		Prov. No. : 0128	Shiname: (M) General Information					
Region Number: 01		Prov. Name: Ilocos Norte	Form No. : M 4.1					
Municipal Number/Municipal Name		Vintar/012823						
Type of Source		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring	
General Information	1/ Total Number of Source	#	282	30	54			
	Implementation							
	2/ Government Agency	#	56	30	54			
	3/ Private	#	226					
	Usage							
	4/ Drinking	#	282	24	54			
	5/ Washing/Bathing	#	282	24	54			
	6/ Gardening	#	282	24	54			
	7/ Irrigation	#						
	8/ Industrial	#						
	Water Quality							
	9/ High Iron/Manganese Content	#						
	10/ High Chloride Content	#						
11/ Turbidity/Color/Smell	#							
Production								
12/ Less/No Water in dry season	#							
13/ Usable through the year	#	282	24	54				
Well Information	Technical							
	14/ Diameter < 100 mm (4")	#						
	15/ Diameter >= 100 mm (4")	#						
	16/ SWL < 5 m below ground	#						
	17/ SWL >= 5 m below ground	#	282	24				
	18/ Specific Capacity < 3 m ³ /hr/m	#						
	19/ Specific Capacity >= 3 m ³ /hr/m	#						
	20/ B-Value < 1,000 s/m ³	#						
	21/ B-Value >= 1,000 s/m ³	#						
	22/ C-Value < 60,000 s ² m ⁶ (Well Loss Const.)	#						
23/ C-Value >= 60,000 s ² m ⁶	#							
Aquifer Information	Technical							
	24/ T-Value < 0.001 m ² /s	#						
	25/ T-Value >= 0.001 m ² /s	#						
	26/ S-Value < 0.01	#						
	27/ S-Value >= 0.01	#						
	Geology							
	28/ Alluvial Formation	#						
	29/ Volcanic Formation	#						
30/ Limestone Formation	#							
31/ Sandstone Formation	#							
32/ Other Sediment Formation	#							
Spring Info.	Technical							
	33/ Minimum Yield < 10 m ³ /h	#						
	34/ Minimum Yield >= 10 m ³ /h	#						
	Other							
	35/ Tapped Using Gravity	#			54			
36/ Undeveloped Using Gravity	#							
37/ Untapped Spring	#							

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7.3 Groundwater Sources

7.3.2 Groundwater Availability in the Province

Table 7.3.1 Major References

NO.	REPORT/INFORMATION	AGENCY/AUTHOR/ PUBLISHED YEAR	CONTENTS	REFERENCE DATA/DESCRIPTION	OUTPUT
1.	Administrative Map (1:150,000)	NAMRIA	municipal boundaries	municipal boundaries	Figures 7.3.1, 7.3.3, 7.5.1
2.	Topographic Map (1:50,000)	NAMRIA	topographic contours, natural waterways, road, etc.	highest peak, major river basins	Figure 7.5.1 Table 7.6.2
3.	Rapid Assessment of Water Supply Sources	NWRB	groundwater availability, well data and inventory	no. of wells, well specific capacity, static water level and depth	Tables 7.1.1, 7.6.1, 7.6.2, 7.6.3 Sections 7.3.2, 7.6
4.	Groundwater Resources Investigation	NWRB	groundwater availability area with salt water intrusion, resistivity	resistivity survey result, area potential for high yielding wells and salt water intrusion	Figures 7.3.1, 7.3.3 Section 7.2
5.	Geology and Mineral Resources of the Philippines	BMGS	Philippine physiographic provinces, sedimentary, metamorphic and igneous rocks	stratigraphy of Ilocos Norte	Section 7.2 Table 7.6.2
6.	Geological Map of the Philippines (1:1,000,000)	BMGS	lithologic distribution and structural features in the Philippines	lithologic distribution and structural features of the province	Figures 7.2.1, 7.3.1, 7.3.2
7.	Reconnaissance Hydrogeological Survey of Ilocos Norte	BMGS	hydrogeological characteristics of the province	hydrogeological description of particular lithologic units in the province	Sections 7.2 & 7.3
8.	Preliminary Report on the Hydrogeological Survey of Ilocos Norte	BMGS	- do -	- do -	Sections 7.2 & 7.3
9.	Geological Interpretation of Multi-level Remote Sensing Data of Ilocos Norte	BMGS	lithologic distribution, structural and morphological features of the province	lithologic, structural and morphological description of the province	Sections 7.2, 7.3 Table 7.6.2

Table 7.3.1 Major References

NO.	REPORT/INFORMATION	AGENCY/AUTHOR/ PUBLISHED YEAR	CONTENTS	REFERENCE DATA/DESCRIPTION	OUTPUT
10.	Philippine Water Resources Summary Data	DPWH/BRS	stream flow and lake or river stage	flow rate measurements and drainage areas of major rivers in the province	Table 7.5.1 Section 7.5
11.	Provincial Profile	PPDO-Ilocos Norte	physical & socio-economic description of the province	land area of municipality	Table 7.6.2 Sections 7.2, 7.3.2
12.	Land Resources Evaluation Project of Ilocos Norte (Part I)	Bureau of Soils	physical characteristics of Ilocos Norte	major river basins in the province	Table 7.6.2 Section 7.2
13.	Feasibility/Engineering Studies for Ilocos Norte, Badoc and Sarrai Water Districts	LWUA	Water District's existing facilities, demand projections, proposed program of works	aquifer characteristics, spring sources and water quality description	Table 7.6.2 Section 7.3.2, 7.6

Table 7.3.2 Well Inventory by Municipality

ILOCOS NORTE

MUNICIPAL	LOCATION	WELL_NO	DATE	DEPTH	SWL	DISCHGE	DKAWDWN	SI/CCP	USAGE	REMARKS
BAGARRA	CABARRUAN	NWS18939	03/10/57	6.71	3.05	0.32	0.62	0.51K		
BAGARRA	CABULALAN ELEM. SCHOOL	NW407510	07/18/75	11.25	4.57	0.50				
BAGARRA	CABUSLIGAN	NWS18940	04/01/57	10.37	4.57	0.38	0.62	0.610		
BAGARRA	CADARITAN	BPW10523	10/24/56	9.15	1.83	0.75	0.60	1.241		
BAGARRA	CASILAN	BPW30769		9.70	2.74	0.63	0.40	2.100		
BAGARRA	COROCOR	BP307628		15.20	2.44	0.95				
BAGARRA	COROCOR	NWS21653	09/10/65	8.23	2.13	0.63	0.30	2.100		
BAGARRA	DURIPES	BPW20159	09/06/38	18.29	3.66	0.57	0.90	0.670		
BAGARRA	GONAGAN	BP307539		47.20	15.20					
BAGARRA	GONAGAN	NWS20157	04/10/58	18.29	4.57	0.63	0.91	0.690		
BAGARRA	LIBTONG	BPW30767		9.10	3.05	0.63	0.61	1.030		
BAGARRA	LIBTONG	NWS18937	04/15/57	12.20	4.57	0.38	0.31	1.242		
BAGARRA	MACUPIT	NWS21632		14.90	4.28	0.63				
BAGARRA	NALBA	BP297331	01/07/74	18.90	1.52	0.63	1.52	0.414		
BAGARRA	NAMBARAN	NW307631		21.30	3.10	0.63	0.61	1.030		
BAGARRA	PAMABUAN	NW216041		11.50	7.32	0.63				
BAGARRA	PANINAAN	NW216036		25.90	7.62	0.63	1.54	0.410		
BAGARRA	PULANG	BP307537		18.60						
BAGARRA	SANGIL	BPW20158	05/13/38	36.59	13.72	0.32	1.52	0.210		
BAGARRA	TEPPANG	NWS18938	04/10/57	9.73	4.57	0.32	0.31	1.036		
BAGARRA	TUBBUKAN	B1030985	08/21/85	30.50	1.52	0.69				
BAGARRA	TUBBUKAN	NWS21714	09/15/71	18.90	3.05	0.61	0.59	1.034		
BAGARRA	HALL DURIPES	B1030186	03/17/86	21.30						
BAGARRA	BARANG ELEMENTARY SCHOOL	B1032785	12/27/86	30.60		0.69				ABANDONED
BAGARRA	POBLACION	BPW-1437		106.60						ABANDONED
BAGARRA	POBLACION 5	BPW-1543		48.70						
BADOC	ALAY	3173-64		7.30	2.80					
BADOC	ALAY	3173-95		11.01	8.09					
BADOC	ALOGOGOG	3073-53		5.45	2.00					
BADOC	ALOGOGOG	3073-60								
BADOC	AR-ARUSIP	BP216112	02/16/62	18.29	7.62	0.19	0.90	0.210		
BADOC	AR-ARUSIP	BPW-3666	09/12/55	30.79	26.22					
BADOC	AR-ARUSIP	BPW21611	02/16/62	18.29	7.62	0.19	0.90	0.210		
BADOC	ARING	3073-38		4.00	2.93					
BADOC	ARING	3073-50		6.03	4.45					
BADOC	ARING	BPW12832	01/30/57	12.20	3.66	0.76	0.19	4.000		
BADOC	BATO	NWS-8359				2.52	1.52	1.660		
BADOC	BATO	3073-84		6.00	1.98					
BADOC	BATO	3173-91		3.65	1.85					
BADOC	BIMMANGA	NWS-8786		10.60	1.56	0.76	1.22	0.620		
BADOC	CANAAN			3.30	3.30	2.41	32.02	0.340		
BADOC	CARAITAN	3073-102	08/11/72	10.72	8.72					
BADOC	CARAITAN	3073-106		10.90	9.45					
BADOC	CARAITAN	3073-107		6.80	0.85					
BADOC	CORRETA	NWS-8655		10.90	3.05	0.95	0.61	1.560		
BADOC	GABUT NORTE	3073-6		3.35	1.70					
BADOC	GABUT NORTE	BP207616		12.40	3.66	0.95	0.91	1.040		
BADOC	GABUT NORTE	BPW12838	01/25/57	10.36	3.05	0.76	1.84	0.410		

ILOCOS NORTE

MUNICIPAL	WELL_NO	LOCATION	DATE	DEPTH	SWL	DISCHGE	DRAWDWN	SPCCP	USAGE	REMARKS
BADOC	1C307-5	GABUT NORTE		4.15	2.62					
BADOC	3073-15	GABUT SUR		2.68	0.53					
BADOC	3073-16	GABUT SUR		2.66	0.53					
BADOC	3073-18	GABUT SUR		4.65	1.08					
BADOC	3073-61	GARRETA			1.65					
BADOC	3173-114	LABUT	06/24/00	24.39	10.36	0.38	2.52	0.150		
BADOC	3173-115	LABUT		14.95	3.75					
BADOC	3073-42	LACUBEN		6.00	2.40					
BADOC	3073-51	LACUBEN		5.10	2.10					
BADOC	NWS-5662	LANGAYAN		100.50	27.44	0.76	19.00	0.040		
BADOC		LUBIGAN	07/23/81	81.00	0.87	6.45	0.26	24.340		
BADOC	3073-76	LUBIGAN		6.00	0.35					
BADOC	3073-85	LUBIGAN		6.00	1.98					
BADOC	3073-108	LUBIGAN		11.95	2.35					
BADOC	3073-145	LUBIGAN	07/23/81	81.00	0.87	6.45	0.27	23.900		
BADOC	BPW21635	LUBIGAN	05/25/63	15.24	4.15	0.63	0.30	2.100		
BADOC	B1031380	MABUSAG	07/29/86	24.40						
BADOC	BP307533	MABUSAG		27.40	2.44	0.95	3.65	0.260		
BADOC	BPW13830	MABUSAG	02/18/57	23.78	7.62	0.76	6.30	0.120		
BADOC	3073-45	MABUSAG-A		6.50	3.25					
BADOC	3173-40	MABUSAG-A		10.09	3.89					
BADOC	BPW-5048	MABUSAG-A	02/13/57	28.96	6.10	0.63	5.75	0.110		
BADOC	3073-65	MABUSAG-B		5.00	4.00					
BADOC	3173-52	MABUSAG-B	09/08/75	27.44	2.44			0.940		
BADOC	3173-68	MORONG		4.00	1.25					
BADOC	3073-72	MORONG		9.40	5.35					
BADOC	3073-79	MORONG		5.35	1.40					
BADOC	3073-80	MORONG		8.72	7.42					
BADOC	3076-86	MORONG		5.75	2.25					
BADOC	BPW21654	MORONG	04/05/66	23.17	4.00	0.32	4.26	0.074		
BADOC	3173-103	NAGREBLAN	05/15/63	25.00	13.72	0.50	1.53	0.330		
BADOC	BP307627	NAGREBLAN SCHOOL	10/12/77	10.96	4.88					
BADOC	3073-33	NAPU		14.84	14.25					
BADOC	3073-34	NAPU		5.53	2.05					
BADOC	3073-36	NAPU		6.68	5.11					
BADOC	3073-39	NAPU		10.06	8.94					
BADOC	BPW-9482	NAPU	11/19/55	10.97	3.65	0.95	0.61	1.550		
BADOC	3073-54	NORTH CENTRAL		11.616	4.4					
BADOC	NWS-8400	PAGANAHAN SOUTH	02/10/57	12.10	3.05					
BADOC	3073-70	PAGANAHAN NORTE		10.97	3.05	0.76	1.51	0.500		
BADOC	3073-71	PAGANAHAN NORTE		3.85	2.05					
BADOC	3073-77	PAGANAHAN SUR		4.25	2.45					
BADOC	BPW-8400	PAGANAHAN SUR	09/24/55	10.40	2.20			0.310		
BADOC	3073-98	PAGUETPET		5.65	5.55					
BADOC	3073-109	PAGUETPET		4.65	3.05					
BADOC	3073-116	PAGUETPET		5.75	4.35					
BADOC	PAL-11	PAL-11			0.08	3.10	28.18	0.110		OWNER: LWUA

MUNICIPAL	LOCATION	WELL_NO	DATE	DEPTH	NWL	DISCHGE	DKAWDWN	SPCCP	USAGE	REMARKS
BALAK	PALITI	3073-69		8.00	4.30					
BADOC	PALITI	3073-73		6.10	1.65					
BADOC	PALITI	3073-75		8.50	5.25					
BADOC	PALITI	3073-82		8.00	2.05					
BADOC	PALITI	3073-88		8.50	2.85					
BADOC	PALITI	3073-89		5.35	3.95					
BADOC	PALITI	3073-100		9.85	1.65					
BADOC	PALITI	B1031986	11/26/86	26.80						
BADOC	PALITI	BPW21635	02/25/63	23.17	9.14	0.63	0.31	2.040		
BADOC	PARANG	BP307626	11/05/76	21.34	3.66	0.63				
BADOC	PARATONG	BPW12627	02/04/57	15.00	6.10	0.76	2.16	0.530		
BADOC	PASUC-PARANG	BP307625	09/17/76	35.67	11.28	0.63	3.94	0.160		
BADOC	PASUC-PARANG	BPW-6994	04/13/54	27.44	7.62	0.82	3.41	0.240		
BADOC	KALBALDIZ	BP216621	05/20/60	10.67	4.88	0.63				
BADOC	SALD	BPW12626	02/07/57	10.90	4.57	0.76	1.54	0.490		
BADOC	STA. CRUZ	3087-87		12.50	10.15					
BADOC	STA. CRUZ	3073-111		7.35	0.85					
BADOC	STA. CRUZ NORTE	3073-81		5.25	2.30					
BADOC	STA. CRUZ NORTE	3073-101		7.25	4.85					
BADOC	STA. CRUZ NORTE	BPW-8657	07/25/55	19.50	9.15	0.76				
BADOC	STA. CRUZ SUR	3073-104		5.60	2.60					
BADOC	STA. CRUZ SUR	3073-105		8.00	4.05					
BADOC	STA. CRUZ SUR	3073-110		8.37	4.07					
BADOC	TUROD	3073-112		2.65	1.15					
BADOC	TUROD	3073-113		9.55	5.75					
BADOC	TUROD	3073-62		0.75	0.75					
BADOC	LUNA PARK	BPW-5603	12/16/52	81.40	1.83	2.52	1.53	1.650		
BADOC	PUBLIC MARKET	3073-63		111.28	PH	14.0	42.42	0.330		
BADOC	PUMP STATION	3073-74		65.60	0.08	3.19	28.18	0.110		
BADOC	PUMP STATION	3073-74		22.00	9.10	1.58				POTABLE
BANGUI	BANGUI	B1031384	07/13/84							
BANGUI	BANGUI-HIGH SCHOOL	NWS20759		9.40	2.44	0.32				
BANGUI	BO. ASACA	NWS-8402		15.50	6.71	0.95	1.08	0.880		
BANGUI	BO. BARBAN	NWS-7092		47.50	4.57	0.32	3.20	0.100		
BANGUI	BO. BARDYEN	BP216141	02/11/61	9.15	7.62	0.63				
BANGUI	BO. LANA0	NWS-7091		44.40	7.62	0.63	4.50	0.140		
BANGUI	BO. MASIKAL	BPW10524	02/16/56	12.10	4.27	0.63	0.61	1.030		
BANGUI	BO. NAGBALAGAN	BP216151	01/31/62	20.73	3.66	0.63	0.91	0.690		
BANGUI	BO. PAGUDUPUD	NWS-5570		21.30	4.27	1.58	1.52	1.040		
BANGUI	BO. PAYAC	BP216144	02/13/61	29.88	13.72	0.44	1.83	0.240		ABANDONED
BATAC	BATAC	NWS-1049		51.80						ABANDONED
BATAC	BATAC CENTRAL SCHOOL	NWS13087		14.60						
BATAC	BATAC GENERAL HOSPITAL	NW287102		25.90	4.57	0.32				
BATAC	BATAC GENERAL HOSPITAL	NW717107	08/14/71	25.91	4.57					
BATAC	BATAC GENERAL HOSPITAL	NWS21713		83.80	3.96	0.32	2.13	0.150		
BATAC	BATAC GENERAL HOSPITAL	NW216024	07/30/60	15.24	3.66	0.95	0.61	1.552		
BATAC	BO. #10 LACUS	NWS16246		16.10		0.32				
BATAC	BO. #14 BARIGON	NWS29715	10/28/71	19.51	9.15	0.32				
BATAC	BO. #18 PANDAN	NWS-150		35.90		0.32				

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MUNICIPAL	LOCATION	WELL_NO	DATE	DEPTH	SWL	DISCHGE	DRAWDWN	SPCCP	USAGE	REMARKS
BATAAC	BO. #24	NWS-151		80.80	5.49	0.32				
BATAAC	BO. #8 ILOILO	BP216023	07/15/60	23.74	4.27	0.44	0.91	0.482		
BATAAC	BO. ARAOUA # 27	NWS	07/15/66	45.73	3.96	12.62	3.66	3.450	IRRIGATION	
BATAAC	BO. BAAV	BPW-5470	07/03/52	39.63	4.57	3.74				
BATAAC	BO. BAAV	NWS	10/26/66	73.17		0.95	1.01	0.870	IRRIGATION	
BATAAC	BO. BAAV	NWS-4790		19.80	2.44	0.88				ABANDONED
BATAAC	BO. BAAV LAKE	NW297324		47.50						
BATAAC	BO. BAAV PAROAY	NWS21619	04/10/63	13.72	3.05	0.63		2.100		
BATAAC	BO. BAAV SOLI	NWS16244		15.20	2.13	0.32				
BATAAC	BO. BABA	NW216134		21.50	6.10	0.44	4.40	0.100		
BATAAC	BO. BALBALAYANG	NWS14374		16.70	2.83	0.32				
BATAAC	BO. BILLOCA	NWS21671	07/31/67	108.23	3.05	4.42	44.20	0.100		
BATAAC	BO. BINAGAN	NWS16241		24.30	4.57	0.32				ABANDONED
BATAAC	BO. BOAY	NWS16242		20.40						
BATAAC	BO. BOAY	NWS21666		73.10	4.57	0.32				
BATAAC	BO. BUNCON	BO100586	05/08/65	35.10	6.40	0.63	2.40	0.200		
BATAAC	BO. BUNCON	NWS14377		36.50	7.62	0.32				
BATAAC	BO. CABAKUAN	NWS21637	03/01/63	12.50	4.27	0.63	0.12	5.199		
BATAAC	BO. CANAYAN	NWS-1624		50.20						ABANDONED
BATAAC	BO. CANAYAN	NWS-3713		19.80						ABANDONED
BATAAC	BO. CANGUANAN	NWS-3744		18.20						ABANDONED
BATAAC	BO. COCO ELEM. SCHOOL	NWS14372		17.60	4.57	0.32				
BATAAC	BO. DANWIDW ELEM. SCH.	NWS14376		16.40		0.32				
BATAAC	BO. II 19 CUBOL	NWS14370		13.70	3.35	0.32				
BATAAC	BO. MAGNANG	BPW-8689	07/28/55	13.72	0.61	1.26	1.83	0.688		
BATAAC	BO. MAGNANG PROPER	NWS14369		16.70		0.32				
BATAAC	BO. NAGBAKALAN	NWS14375		15.20	1.83	0.32				
BATAAC	BO. NAGKURKURAN	NWS14373		13.70	1.83	0.32				
BATAAC	BO. PAYAO	NWS21631	02/15/63	18.30	7.62	0.63	0.30	2.100		
BATAAC	BO. KAYURAY	NWS16243		18.20	3.66	0.32				
BATAAC	BO. SAN JULIAN	NWS21672	03/31/67	91.46	4.57	4.42	33.48	0.132		
BATAAC	BO. SAN MATEO	BPW17193	03/24/56	15.24	2.44	0.63	1.21	0.520		
BATAAC	BO. SUABIT	NWS-1101		50.20						ABANDONED
BATAAC	BO. SUABIT	NWS16245		17.60		0.32				
BATAAC	BO. SUMADER	NWS	12/16/66	86.89	5.49	3.15	4.89	0.646		
BATAAC	BO. SUMADER	NWS21643	04/07/64	24.39	4.27	0.36	1.84	0.207		
BATAAC	BO. TABLANG	NWS	05/25/66	36.38	4.57	15.77	36.09	0.437	IRRIGATION	
BATAAC	BO. TABUG	NWS14358		16.70	3.66	0.32				
BATAAC	BO. TABUG SOUTH SCHOOL	NWS14371		16.70	3.66	0.63				
BATAAC	ILOCOS N. INST. OF TECH.	NWS21691	05/13/69	32.01	2.13	7.57	3.35	2.257		
BATAAC	POBLACION	BPW10530	07/28/56	12.19	2.44	0.95	1.23	0.776		
BATAAC	POBLACION	NW297104	07/16/72	73.17						
BATAAC	RURAL HIGH SCHOOL	NWS-8401		16.10	1.83	3.78	8.79			
BATAAC	SITIO ARANJOI	NW216124	05/02/61	24.39	5.79	0.36	9.50	0.640		
BATAAC	SITIO BALAIGAT BAAV	NWS21641	04/07/64	38.05	6.71	0.44	0.96	0.450		
BATAAC	SITIO BALBALAYANG	NW216132	05/02/61	21.34	6.10	0.44	4.40	0.100		
BATAAC	SITIO SURONG	NWS21642	04/07/64	21.34	4.27	0.50	1.83	0.270		

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MUNICIPAL	LOCATION	WELL NO	DATE	DEPTH	SWL	DISCHGE	DRAWDWN	SPCCP	USAGE	REMARKS
BURGOON	BO. BAKAT	BPW-7086	10/01/54	17.08	3.05	0.44	8.80	0.650		
BURGOON	BO. BARAT ELEM. SCHOOL	B1032386	12/14/66	11.00	4.50	0.61				POTABLE
BURGOON	BO. BORON	BP207516		10.90	5.18	0.63				
BURGOON	BO. DERAP	BPW10464	03/14/56	9.15	3.44	0.32	1.23	0.260		
BURGOON	BO. NAGSURTO	NWS29716	10/06/71	16.77	3.05	0.30	0.61	0.820		
BURGOON	BO. PAGUPUD	BPW-5570	10/17/52	21.34	3.05	1.38	1.52	1.040		
BURGOON	BO. PAYAS	BPW-2162	02/15/62	9.76	5.13	0.63	0.90	0.690		
BURGOON	BO. PAYAS	NW210314		10.60	4.88	0.32				POTABLE
BURGOON	BO. SAOIT	B1040684	06/14/84	41.50	9.10	0.88				
BURGOON	BO. SAOIT	NWS-7093		24.90	3.05	0.63	0.61	1.030		
BURGOON	BO. TANAP	NW216842		12.40	6.71	0.690				
BURGOON	BO. WEST BORON	BP207520		9.10	3.99	0.65				
BURGOON	POBLACION	BP207522		18.20	1.93					
CURRIMAO	BO. BIMMANGA	NWS-8786		10.60	1.36	0.76	1.22	0.620		
CURRIMAO	BO. BIMMANGA	NWS-8974		10.60	2.44	1.26	0.61	2.070		
CURRIMAO	BO. GAANG	BPW-30764		12.80	3.66	0.63				
CURRIMAO	BO. GAANG	NWS-7414		8.80	1.83	0.50	0.61	0.820		
CURRIMAO	BO. GULFENG	TCG30734		3.25	1.00					
CURRIMAO	BO. LANGAYON	B1040285	03/06/85	22.00	1.52	0.76	2.14	0.350		POTABLE
CURRIMAO	BO. LINES	B1032286	12/26/86	6.70	3.09	0.95				
CURRIMAO	BO. LINES	NWS-9750		11.50	3.66	0.32				
CURRIMAO	BO. MAGLASI	TCG30731		5.00	2.45					
CURRIMAO	BO. MAGLASI	TCG30733	08/18/56	13.72	3.05					
CURRIMAO	BO. PANGIL	NWS-8787		12.10	4.57	0.88	0.40	2.930		
CURRIMAO	BO. PIA SUR	BP-07618		10.60	1.56	3.78	0.91	4.150		
CURRIMAO	BO. PIA SUR	BPW12829	01/28/57	11.45	3.96	0.76	1.52	0.500		
CURRIMAO	BO. PIAS	NWS-9751		11.20	3.35	0.32				
CURRIMAO	BO. PIAS SUR	BP297301		12.10	3.05	0.63	0.61	1.030		
CURRIMAO	BO. SALUGAN	NW297212	12/18/72	13.11	3.05					
CURRIMAO	BO. TAPAO	NWS-9747		64.00		0.32				
CURRIMAO	BO. TORRE	NW216018	11/18/60	6.09	3.47	0.76	0.31	2.480		
CURRIMAO	BO. VICTORIA	NW216019		9.10	4.57	0.30	0.30	1.670		
CURRIMAO	CENTRAL	BPW30766		10.60	4.27	0.76				
CURRIMAO	MUNICIPAL LOT	NW297211	01/21/73	11.58	3.04	2.05	0.91	2.910		
CURRIMAO	NURSERY PIAS SUR	BP297313	02/12/73	12.70	3.05	0.63	2.42	0.260		
CURRIMAO	POBLACION	NWS-7680		21.90	3.66	0.32				ABANDONED
CURRIMAO	POBLACION	NWS-9748		12.10	3.66	0.32				
CURRIMAO	POBLACION	NWS-9749		12.10	3.66	0.95				
CURRIMAO	PRESS COTTAGE	B1030985	07/16/65	18.30						POTABLE
CURRIMAO	PRESS COTTAGE	C-80	05/26/65	9.62	0.23	9.64	29.78	0.320		
DINGRAN	BO. ALABAAN	BPW-6293	05/19/54	21.95	6.40	0.82	0.61	1.344		
DINGRAN	BO. ASUNCION	BPW-1836		60.90						ABANDONED
DINGRAN	BO. BAGUI	BPW-7151	09/15/54	7.62	1.22	1.26	0.30	4.140		
DINGRAN	BO. BALDIAS	BPW-6296	06/27/54	28.05	4.57	0.95	0.61	1.560		
DINGRAN	BO. BALDIAS	NWS29717	12/04/75	11.07	1.22	0.63	0.61	1.030		
DINGRAN	BO. BANGAY	NWS-7663		22.80	1.83	0.52				
DINGRAN	BO. BANGAY	BP207524		9.70	1.63	0.63	4.50	0.140		
DINGRAN	BO. BIDING	NW216136	01/22/62	13.72	1.52	0.63	0.60	1.040		

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DINGRAS	BO. BUNGAG	BPW-076-34		30.40	2.44	0.95	2.45	0.590		
DINGRAS	BO. BUNGAG	BPW-9484	01/24/56	11.38	2.44	1.14	1.53	0.745		
DINGRAS	BO. CAPASAN	BP100786	04/07/86	19.00	3.70	2.80				
DINGRAS	BO. LANAS	BP307516		9.70	1.83	0.63				
DINGRAS	BO. LANAS	NWS19581	10/15/57	8.54	2.74	0.76	0.92	0.823		
DINGRAS	BO. LUMBOD	NWS-7664		22.80	1.83	1.26	0.30	4.200		ABANDONED
DINGRAS	BO. LUMBOD	BPW-1130		60.90						POTABLE
DINGRAS	BO. MADIMBA	BPW-1130		19.80	2.13	0.76	0.92	0.820		
DINGRAS	BO. MALLFOX	BP103184	09/29/84	10.00	2.44	0.63	1.85	0.340		
DINGRAS	BO. NAGLAYAN	BP307527		7.60	2.44	0.63	0.61	1.030		
DINGRAS	BO. PADONG	BPW20153		23.70	6.10	1.26	0.26	4.800		
DINGRAS	BO. PURUNGANAN	NW216314		23.78						
DINGRAS	BO. PURUNGANAN	NWS21634	03/12/63		2.13	0.63	0.91	0.690		
DINGRAS	BO. RAGAN	NW216221	02/19/62	12.20						
DINGRAS	BO. ROOT	NW787005	07/31/70	7.31	3.05	0.92	0.31	1.036		
DINGRAS	BO. SAGPATAN	NWS21638	04/15/63	42.90	15.72	0.88	7.60	0.050		
DINGRAS	BO. SIDIRAN	NWS-8250		27.94	2.13	3.79	2.14	1.770		
DINGRAS	EXPERIMENTAL STATION	NWS21613	01/31/62	13.72	4.57	1.89	0.61	3.100		
DINGRAS	PROVINCIAL HIGH SCHOOL	NWS21621	01/28/62	24.39	4.57	0.63	4.56	0.138		
DINGRAS	SUYO ELEM. SCHOOL	BPW29753	01/24/75	27.44	4.27	0.63	6.30	0.100		
DINGRAS	BO. #1 POBLACION	NWS15215	08/20/57	28.05	12.20	0.32	5.33	0.060		
ESPIRITU	BO. #1 POBLACION EAST	NWS19560	01/07/58	18.20						ABANDONED
ESPIRITU	BO. #1 POB. GABALDON	BPW-1822		30.49	4.27	0.76	4.73	0.160		
ESPIRITU	BO. #2 MAGNO ST.	NWS19559	09/24/57	18.20						ABANDONED
ESPIRITU	BO. #2 POBLACION NORTH	BPW-4651		17.20						ABANDONED
ESPIRITU	BO. #3 POB. HIGH SCHOOL	BPW-4594		17.90						
ESPIRITU	BO. #4 POBLACION MARKET	NWS-7861		33.00	7.01	2.58	5.10	0.500		
ESPIRITU	BO. BALIWEG	BPW15206		44.21	15.24	0.63	1.54	0.410		
ESPIRITU	BO. BANGSAR	NWS-7861	01/20/57	9.77	2.75	0.69	1.52	0.455		
ESPIRITU	BO. BINACAG	BPW15204	11/23/56	10.98	1.83	0.63	0.61	1.030		
ESPIRITU	BO. BUGANI	NWS15211	06/18/57	7.62	1.42	0.63	0.30	2.100		
ESPIRITU	BO. BUGANI	NWS15212	07/06/57	15.24						
ESPIRITU	BO. BUMIYAG	BPW13099	01/12/57	15.24		0.63				
ESPIRITU	BO. CABAKONAN	NWS14939		6.70	3.05	0.32	0.62	0.520		
ESPIRITU	BO. CABULABAN	BPW13102	11/06/56	17.99	2.74	0.76	0.30	2.540		
ESPIRITU	BO. CADANAN	NWS-4662		19.80	3.05	0.63	1.54	0.410		
ESPIRITU	BO. CALISTEBARAN	NWS-7862		19.80	6.10	0.95	4.52	0.210		
ESPIRITU	BO. CALUNGBAYAN	NWS15210	06/01/57	31.40	13.72	0.44	11.00	0.040		
ESPIRITU	BO. CAPARAYAN	NWS13100	04/04/57	17.68	1.22	0.63	1.54	0.410		
ESPIRITU	BO. CARIBOUIB	NWS13097	03/08/57	18.90	1.83	0.76	0.30	2.540		
ESPIRITU	BO. CARIBOUIB	NWS21652	09/06/65	20.71	10.67	0.42	0.63	0.510		
ESPIRITU	BO. CRISHOIB	NWS29722	06/06/72	28.96	12.20	0.38	3.80	0.100		
ESPIRITU	BO. DARAMUANGAN	NWS19564		21.95	5.79	0.32	6.40	0.050		
ESPIRITU	BO. FAYTABAGAN	BPW-6294	05/31/54	25.40	6.40	1.07	0.50	2.140		
ESPIRITU	BO. GABALDON	BP297318		35.00	12.80	0.44	14.66	0.030		
ESPIRITU	BO. IMELDA	BP1032486	12/30/86	29.00	7.30	0.63	1.90	0.390		
ESPIRITU	BO. LADING	NWS19563	12/18/57	19.21	4.88	0.57	3.00	0.190		
ESPIRITU	BO. LICO	NWS15207	03/10/57	42.68	10.67	0.44	14.67	0.030		
ESPIRITU	BO. MACATEPEP	NWS15205		20.70	4.57	0.57	6.33	0.090		

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ESPIRITU	BO. NAGPATAYAN	BPW-4098	07/16/57	16.16	2.44	0.57	1.50	0.880		
ESPIRITU	BO. QUIAOI	BP1011544	09/14/66	15.20	4.57	0.63				POTABLE
ESPIRITU	BO. SINAMAR ELEM. SCH.	BP1030886	05/02/66	9.20	5.50	0.63				
ESPIRITU	BO. STO. NINO	NWS19562	11/19/57	15.24	2.13	0.63	0.61	1.030		
ESPIRITU	BO. SUMILANT NORTHEAST	NWS15208	04/17/57	36.28	11.28	0.57	14.25	0.640		
ESPIRITU	BO. SUMILANT SOUTHWEST	NWS15209	05/04/57	22.86	7.93	0.63	1.21	0.520		
ESPIRITU	BO. TEPANG	NWS14938	05/04/57	10.00	4.57	0.32	0.40	1.070		
ESPIRITU	V-BUTEF FARM	NW787001	04/03/70	24.39	7.62	0.95	3.17	0.300		
KATIPUNAN	BO. MALAW	NWS16075		8.44	8.20					
LAOAG CITY	BO. #19	BPW-30762		118.50	5.49	0.32				
LAOAG CITY	BO. #2	NWS11355		52.40	4.57	0.32				
LAOAG CITY	BO. #47	NWS11354		60.90	3.05	0.32				
LAOAG CITY	BO. #11 NANGALINAN	NWS11356	02/26/57	22.96	4.57	0.40	2.44	2.880		
LAOAG CITY	BO. APAYA	BPW-7405	11/04/54	11.28	2.44	1.58	0.61	2.590		
LAOAG CITY	BO. APAYA	NW216031	06/03/60	16.77	4.57	0.63	0.61	1.030		ABANDONED
LAOAG CITY	BO. PACSIL	BPW-8395		92.00						
LAOAG CITY	BO. PACSIL	BPW-8913	01/07/56	18.29	10.06	0.32	2.13	0.150		
LAOAG CITY	BO. BALAGAD	NWS-7415		19.80	3.60	0.63				
LAOAG CITY	BO. BALATANG	BPW-8652	06/17/55	15.24	4.27	1.14	0.91	1.250		
LAOAG CITY	BO. BANIT	BPW11351		73.10						
LAOAG CITY	BO. BARBAK	NWS14923	05/24/57	9.45	2.13	0.32	0.32	1.007		
LAOAG CITY	BO. BELEN-PANDAN-VIRA	NW216035	11/13/60	19.82	3.60	0.63	2.42	0.260		
LAOAG CITY	BO. BINGCAG	BPW-8335	08/10/56	14.81	4.51	1.14	0.84	1.865		
LAOAG CITY	BO. BINGCAG	NWS-8654		12.40	5.18	1.13	0.61	1.850		
LAOAG CITY	BO. BUTTONG	BPW-5896	07/27/52	28.05	6.10	1.26	1.52	0.830		
LAOAG CITY	BO. BUTTONG	BPW-9769	12/30/55	10.97	3.09	0.85	0.61	1.450		
LAOAG CITY	BO. CABUNGAAN	BPW-8914	09/12/55	12.20	1.83	1.14	0.61	1.870		
LAOAG CITY	BO. CALAYAB	BPW-7087	09/17/54	25.61	6.10	0.63	6.30	0.100		
LAOAG CITY	BO. CAMANG-GAAN	NWS20152		19.80	3.05	0.32				
LAOAG CITY	BO. CASILI	BPW-9768	01/08/56	9.75	2.13	0.46	0.30	1.550		
LAOAG CITY	BO. CATABAN	NW216313	05/17/63	6.10	3.05	0.63	0.30	2.100		
LAOAG CITY	BO. CAVIT	BP297321		14.30	3.05	0.50	1.52	0.330		
LAOAG CITY	BO. CAVIT	BP307531		9.40	3.35	0.95				
LAOAG CITY	BO. CAVIT	NWS-8396		15.80	3.60	0.95	0.61	1.560		
LAOAG CITY	BO. DAKAYDAY	BPW-8915	04/01/55	8.23	2.44	1.26	0.61	2.072		
LAOAG CITY	BO. DIBBUA	BPW-7153	10/28/54	11.38	4.27	1.89	0.61	3.100		
LAOAG CITY	BO. DIBILA	BP407542		15.20	4.88	0.95				
LAOAG CITY	BO. GABU NORTE	BPW-7152	10/02/54	5.79	0.609	1.38	0.61	2.590		
LAOAG CITY	BO. GABU NORTE	NW216135	09/22/61	10.98	2.13	0.95	0.61	1.560		
LAOAG CITY	BO. GABU NORTE	NW297319	05/28/73	6.10	3.35	0.76	0.50	2.530		
LAOAG CITY	BO. GABU SUK	BPW-8252	04/22/55	7.77	1.22	0.94	0.61	1.550		
LAOAG CITY	BO. LA PAZ	BP101085	10/17/85	24.40						POTABLE
LAOAG CITY	BO. LA PAZ	BPW-6297	07/17/54	44.20	9.14	0.63	15.75	0.040		
LAOAG CITY	BO. LA PAZ	NWS14926	09/04/57	12.20	5.49	0.48	1.22	0.310		
LAOAG CITY	BO. LAGOI-SAIL	NWS29721	05/07/72	19.82	2.13	0.76	0.90	0.840		
LAOAG CITY	BO. MADLADIG	NWS14925	05/28/57	8.23	4.57	0.32	0.30	1.070		
LAOAG CITY	BO. MANGATO	NWS30753	02/25/75	10.37	2.74	0.63				
LAOAG CITY	BO. MANGATO EAST	BPW-30758	04/03/75	12.80	3.05	0.76	0.30	1.520		

ILOCOS NORTE

MUNICIPAL	WELL_NO	LOCATION	DATE	DEPTH	SWL	DISCHGE	DRAWDWN	SPCCP	USAGE	REMARKS
LAOAG CITY	NWS21493	BO. MARGAAY	08/15/58	15.41	4.57	0.63	0.91	0.890		
LAOAG CITY	BPW-9771	BO. NALBO	01/09/56	10.98	4.57	0.76	0.30	2.530		
LAOAG CITY	BPW-9770	BO. NANGALISAN	12/27/55	10.97						
LAOAG CITY	BPW-11553	BO. NANGALISAN	02/29/57	27.44	6.10	9.46	5.50	1.720		
LAOAG CITY	NWS-9779	BO. NANGALISAN		10.90	5.96	0.63	0.40	2.100		
LAOAG CITY	NWS21492	BO. NAVOTAS	07/25/58	10.67	2.13	0.76	0.92	0.828		
LAOAG CITY	NWS14924	BO. NORTH DIBUA	02/22/57	15.65	3.32	0.62	1.23	0.260		
LAOAG CITY	BPW-7413	BO. PILA	12/30/59	12.19	2.44	0.95	0.31	3.100		
LAOAG CITY	NWS21494	BO. KARABURAN	02/14/60	17.07	6.10	0.63	0.61	1.030		
LAOAG CITY	BPW14952	BO. RIENG	09/17/57	15.24	6.10	.38	1.84	0.207		
LAOAG CITY	NWS21491	BO. RIENG	07/05/58	16.16	3.05	0.76	0.61	1.240		
LAOAG CITY	NWS11552	BO. SAN JON	04/28/57	41.16	4.57	9.46	2.57	2.070		
LAOAG CITY	BPW-6298	BO. SAN MATEO	07/27/54	26.52	4.57	0.95	0.61	1.500		
LAOAG CITY	BPW	BO. SAN MATEO	07/17/86	14.60	1.50	0.60	0.60	2.700		
LAOAG CITY	BPW07629	BO. STA. GUARIN		12.10	2.13	0.95				
LAOAG CITY	BPW-7404	BO. STA. MARIA	11/18/54	23.17	2.44	0.76	0.61	1.250		ABANDONED
LAOAG CITY	BPW-9761	BO. TALLINGAAN		12.80						
LAOAG CITY	BPW-9767	BO. TALLINGAAN	01/07/56	12.80	5.49	0.95	0.50	3.200		
LAOAG CITY	NWS-4597	BO. TALLINGAAN		15.80	3.60	0.95	0.30	3.170		
LAOAG CITY	BPW-8386	BO. TALLINGAAN	05/24/55	15.83	6.10	1.01	0.91	1.110		
LAOAG CITY	NW216033	BO. TANGID	09/17/60	30.87	12.20	0.63	0.32	1.970		
LAOAG CITY	BO. VIRA		10/21/60	18.29	1.52	0.63	0.61	1.030		
LAOAG CITY	NW216034	BO. VIRA EAST		18.20		0.32				ABANDONED
LAOAG CITY	BPW-0768	BO. ZAMBOANGA		12.80	3.05	0.63	0.61	1.030		
LAOAG CITY	NW216032	BO. ZAMBOANGA	07/11/60	12.80	4.27	3.78				
LAOAG CITY	BPW07541	BPW COMPOUND		10.90						
LAOAG CITY	NWS29725	CALUYA STREET	07/30/72	96.04	50.59					
LAOAG CITY	NWS21612	ERMITA DIST.	02/22/61	22.86	6.10	3.16	11.33	0.279		
LAOAG CITY	BO.06685	ILOCANO HERO	05/08/86	33.50	6.40	0.63	2.40	0.260		
LAOAG CITY	NWS29728	LAOAG FIRE DEPARTMENT	11/07/72	37.80	3.05					
LAOAG CITY	NWS29727	LAOAG SUPERMARKET	09/15/72	46.49	2.44	12.62	0.30	41.380		
LAOAG CITY	BPW - 3	MARCOS STADIUM		19.80	3.05	0.63	1.54	0.410		ABANDONED
LAOAG CITY	NWS29729	NLTC	12/22/72	42.01	4.57					
LAOAG CITY	NWS29723	NORTHERN DOCTOR'S HOSP.	09/15/72	39.63	1.52	3.16	6.34	0.498		
LAOAG CITY	NWS11349	POBLACION 13	02/09/57	219.53	3.05	0.32	4.57	0.070		ABANDONED
LAOAG CITY	BPW-1184	POBLACION 23		25.90						ABANDONED
LAOAG CITY	BPW-1175	POBLACION 23		58.50						ABANDONED
LAOAG CITY	BPW-1163	POBLACION 28 AND 29		36.20						ABANDONED
LAOAG CITY	BO.031786	PROV. JAIL	11/03/86	30.50	6.10	1.30				
LAOAG CITY	NWS21693	PROVINCIAL HOSPITAL	12/27/69	33.54						
MARCOS	BPW29756	BO. GAPIRIAN ELEM. SCH.	03/07/75	21.90	7.62	0.63	2.10	0.299		
MARCOS	BPW07512	BO. DAQUICAY		21.30	2.44	0.50	3.57	0.140		
MARCOS	BPW07515	BO. ENCODA		9.10	4.52	0.63	3.00	0.210		POTABLE
MARCOS	BO.031984	BO. LYDIA	10/13/81	47.00		2.20				
MARCOS	BO.031586	BO. VALDIZ	08/22/86	18.30						
MARCOS	NW281101	MARCOS STADIUM	05/10/71	42.68	10.67					
MARCOS	BO.030886	BO. PANGPANG	04/28/86	21.30	9.20	0.95				
NUOVA ERA	BO.031086	POBLACION	11/09/86	23.00	4.60	0.95	1.50	0.630		CLEAR
NUOVA ERA	BPW-6295	POBLACION	08/15/54	41.16	10.67	0.63	3.71	0.170		

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MUNICIPAL	LOCATION	WELL_NO	DATE	DRPTH	SWL	DISCHGE	DEAWDWN	SFCP	CSAGE	REMARKS
PAGUDPUUD	BO. #1	NWS-7090		17.00	2.44	0.63	0.91	0.880		
PAGUDPUUD	BO. AG-GASI	BP207413		21.30	6.71	0.63	0.91	0.690		
PAGUDPUUD	BO. BOLAN SCHOOL		06/26/57	17.38	1.23	0.32	6.30	0.100		
PAGUDPUUD	BO. BURAYOS	NWS14948		22.80	2.13	0.52	0.91	0.350		CLEAR
PAGUDPUUD	BO. BURAYOC	BPW	02/12/87	11.00	3.00	0.63				
PAGUDPUUD	BO. CAUNAYAN		02/14/75	14.63	2.13	0.50	0.50	1.000		
PAGUDPUUD	BO. LUSOGU	NWS14951	02/19/62	8.84	1.83	0.38	0.61	0.620		
PAGUDPUUD	BO. PASALENG		06/22/57	13.72	2.44	0.38	1.52	0.250		
PAGUDPUUD	BO. SUBIC	NWS14949	07/01/57	7.62	2.80	0.38	0.30	1.270		
PAGUDPUUD	BO. SUBIC	BPW	10/08/84	15.20	5.49	0.63	0.81	1.040		
PAGUDPUUD	BO. SUBIC	NWS16125	01/26/62	9.45	4.27	0.38	3.80	0.100		
PAGUDPUUD	POBLACION #2	NW297214	07/02/72	12.20	4.38	0.44	1.22	0.390		
PAGUDPUUD	PUBLIC PLAZA	NWS-7089		18.20	3.05	0.63	0.91	0.690		
PAOAY	BO. #11	BPW-5981	01/31/54	22.86	3.05	1.26	0.50	2.520		
PAOAY	BO. #21	NW216026	10/22/60	11.28	1.52	0.63	0.50	1.260		ABANDONED
PAOAY	BO. #12 MALBUAN	BPW-5975		10.60						
PAOAY	BO. #17 PANARATAN	NW216121	01/31/61	9.76	2.74	0.63	0.50	1.280		
PAOAY	BO. BALIGA	NW216025	09/01/60	10.37	2.44	0.63	0.50	1.280		POTABLE
PAOAY	BO. BANASILAWA	BPW	09/28/64	61.00						
PAOAY	BO. CABANGARAN	BP216122		35.60	2.59	0.32				
PAOAY	BO. CABARUAN	BPW		9.10	8.74					
PAOAY	BO. CABARUAN	NW216029	12/08/60	36.50	4.57	0.32				
PAOAY	BO. CAL-LAQUIP	BPW-9746		8.23	2.44	2.74	0.13	9.130		
PAOAY	BO. CASIRAPAN	BPW-7668		14.60	3.06					
PAOAY	BO. CASIRAPAN	BPW-8254		55.40	12.20	0.44	14.60	0.030		
PAOAY	BO. NAGBACALAN	BPW		10.60	2.74	1.00	0.30	3.370		
PAOAY	BO. NAGBACALAN	BP216123	02/10/67	18.30		0.69				
PAOAY	BO. NAGBACALAN #2	BP216112		24.00	12.70	0.63	0.30	2.100		
PAOAY	BO. NAGBACALAN	BPW-5993	02/25/54	31.10	14.02	0.63	1.83	0.340		
PAOAY	BO. NURMULAN	BPW10522		9.10	2.44	0.95				
PAOAY	BO. PASIL	BPW-9745	02/28/75	19.51	4.57					ABANDONED
PAOAY	BO. PASIL	NW216011		70.70						
PAOAY	BO. SALBANG	BPW-9746	02/29/60	25.00	11.28	0.50	6.25	0.800		
PAOAY	BO. SAN BLAS	BP216030		9.70	1.83	0.63	1.21	0.520		
PAOAY	BO. SAN BLAS	BPW-9745		12.10	3.05	0.95				
PAOAY	BO. SUBA	BPW-8403		9.70	2.74	0.63				
PAOAY	BO. SUBA SOUTH	NW215912		10.60	1.52	0.63				
PAOAY	BO. SUNGADAN	BPW-7044	01/22/60	82.20	36.59	12.20	10.67	0.300		ABANDONED
PAOAY	BO. SURIJI	BP216028	05/27/86	28.90						
PAOAY	BO. SURIJI	BPW-7659		55.00						
PAOAY	MARKET SITE	BPW-9745		10.60	2.44	0.50	0.30	1.670		
PASUQUIN	3RD SITE KADAK	C-81	12/31/65	123.48	3.11	2.08	14.21	1.146		BOSS WELL
PASUQUIN	BO. BUCAL	NWS21602		59.40						
PASUQUIN	BO. CABARUAN	BPW-5711		19.80	1.52	0.32				
PASUQUIN		NWS14942	04/29/57	6.71	3.05	0.38	0.61	0.620		

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MUNICIPAL	LOCATION	WELL_NO	DATE	DEPTH	SWL	DISCHG	DRWDWN	SPCUP	USAGE	REMARKS
PASUQUIN	BO. CALULUSAN	NWS14997	03/30/57	12.20	6.10	1.83	0.30	6.100		
PASUQUIN	BO. CARUSIPAN	B1031886	11/26/86	11.00	4.60	0.63				POTABLE
PASUQUIN	BO. CARUSIPAN	NWS14945	03/09/57	10.67	4.57	0.38	0.30	1.270		
PASUQUIN	BO. DARUPIDIP	NW307525		99.00	5.79	0.95				
PASUQUIN	BO. DAVILA	NW215911	12/11/59	10.37	2.44	0.63	0.61	1.030		
PASUQUIN	BO. DAVILA	NW307518		15.80	3.35	0.32				
PASUQUIN	BO. DILANO	NWS14941	09/04/57	12.20	5.49	0.38	1.81	0.210		
PASUQUIN	BO. ESTANCIA	NWS14046	03/20/57	9.76	6.71	0.32	0.91	0.350		
PASUQUIN	BO. NALVO	B1030894	07/16/84	73.20	2.13	0.32				POTABLE
PASUQUIN	BO. NATBAOAN	NWS14943	04/24/57	6.71	3.66	0.38	0.61	0.620		
PASUQUIN	BO. NGABANGAB	NWS-7094		35.30	3.05	0.76	1.81	0.420		
PASUQUIN	BO. PRAGATA	B1030886	03/20/86	9.20	1.50	0.63				POTABLE
PASUQUIN	BO. PUYOPUYAN	NWS14944	04/07/57	6.40	3.66	0.38	0.61	0.620		
PASUQUIN	PHIL. ARMY	NWS21611	01/20/61	22.86	3.05	1.58	10.53	0.150		
PASUQUIN	KADAK STN.	NWS19531	10/20/59	27.44	6.10	0.32	80.00	0.004		
PASUQUIN	KADAK STN.	NWS21591	03/04/60	77.74	12.20	1.26	42.00	0.030		
PASUQUIN	KADAK STN.	NWS21601	04/30/60	59.45	3.66					ABANDONED
PASUQUIN	KADAK STN.	NWS21603	06/15/60	94.51	6.10					ABANDONED
PASUQUIN	KADAK STN.	NWS21604	07/31/60	79.27	1.52	0.95	47.50	0.020		
PASUQUIN	KADAK STN.	NWS21605	09/30/60	53.35	1.52	0.05	47.50	0.020		
PASUQUIN	KADAK STN.	NWS21606		22.80	3.05	1.58	7.52	0.210		
PIDDIG	BO. #3 LAING	BPW13094		13.44	2.13	0.63	0.61	7.030		
PIDDIG	BO. #6 BATO	NWS13095	04/07/57	15.85	5.79	0.63	0.38	1.660		
PIDDIG	BO. ABUCAY	BP297320		12.10	3.66	0.76	0.30	2.530		
PIDDIG	BO. ABUCAY	BPW-8249	05/02/55	10.98	1.52	1.26	0.30	4.200		
PIDDIG	BO. BAYBAY	NWS13093	03/28/56	16.77	7.32	0.69	0.30	2.300		
PIDDIG	BO. CALUSA	NW216131	02/02/61	13.72	5.18	0.63	4.50	0.140		
PIDDIG	BO. CALUSA	NWS14934	08/12/57	13.11	6.10	0.38	1.52	0.250		
PIDDIG	BO. ESTANCIA	BP107630		21.00	3.05	0.50	0.61	0.820		
PIDDIG	BO. GAYMAL	NW216132	02/24/61	15.85	6.10	0.63	0.61	1.030		
PIDDIG	BO. LAGANDIT	BP307545		27.40	12.20	0.95				
PIDDIG	BO. LIMBAOAN	BP307521		35.00	10.70	0.63	3.00	0.210		
PIDDIG	BO. PAGOGO	NWS14933	08/19/57	16.16	8.54	0.32	2.46	0.130		
PIDDIG	BO. STA. MARIA	NW216133	03/27/61	10.39	7.62	0.44				
PIDDIG	BO. SUKUKEN	NWS14932	08/05/57	15.85	7.62	0.32	1.52	0.210		
PIDDIG	BO. TANGANAN	NWS13096	03/30/57	20.83	4.57	0.38	9.50	0.040		
PIDDIG	BO. TONOTON	BPW-6300	08/31/54	48.29	3.66	0.76	0.30	2.530		
PIDDIG	BO. VIRSUSA	BP307513		9.70	0.61	0.63	0.30	2.100		
PIDDIG	POBLACION	BPW-6299	08/09/54	45.73	16.77	1.01	0.30	3.570		
PIDDIG	SCHOOL SITE	BPW-5345	09/05/52	38.11	9.15	1.89	0.91	2.080		
PRINLI		BP307515	08/09/79	39.63	3.05	3.78	3.94	0.960		
PRINLI	BO. APAIUT-LUBONG	3073431		5.73	1.08					
PRINLI	BO. APAIUT-LUBONG	BP216013	05/13/60	14.02	3.66	0.63	4.85	0.150		
PRINLI	BO. APAIUT-LUBONG	BPW30749		5.73	1.93					
PRINLI	BO. BADIO	BP128231	08/29/56	19.82	0.69	0.76	1.54	0.490		
PRINLI	BO. BARBON	B1032894	03/01/85	19.20	6.10	0.76				
PRINLI	BO. BARBON	NWS11168		15.20	4.57	0.32				POTABLE
PRINLI	BO. BUNGRU	B1031586	10/07/86	25.60	1.50	0.63	1.50	0.420		

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MUNICIPAL	LOCATION	WELL_NO	DATE	DEPTH	SWL	DISCHGE	DRAWDOWN	SP/CP	USAGE	REMARKS
PINILI	BO. BUNORO	NWS21476	07/24/59	24.40	3.05	0.32	0.30	0.040		
PINILI	BO. CABARUAN	BP307511		57.99	7.62	0.32				
PINILI	BO. CABANAN	BP3073-12		9.85	5.95					
PINILI	BO. CABANAN	BP3073-12		6.25	3.65					
PINILI	BO. CAPANDANAN	3074-17		4.75	2.95					
PINILI	BO. CAPANDANAN	3074-21		6.35	3.25					
PINILI	BO. CAPANDANAN	3074-14		6.85	4.45					
PINILI	BO. CAPANDANAN	BPW12624	01/19/57	18.00	3.05	0.76	1.51	0.300		
PINILI	BO. CAPANDANAN WEST	BPW12625	07/23/57	18.30	4.57	0.63	1.54	0.410		
PINILI	BO. DALAYAP	NWS29726	08/16/72	32.01	6.10	0.76	4.47	0.170		
PINILI	BO. DARRAT	3073-19		6.55	2.35					
PINILI	BO. DARRAT	BPW14158	02/26/57	17.68	7.62	0.76	4.44	0.170		ABANDONED
PINILI	BO. DARRAT	NWS10521		4.85	2.40					
PINILI	BO. GULPUNG	BP216012	04/13/60	16.77	7.62	0.44	2.75	0.160		
PINILI	BO. NATRIGUAN	BP307517		47.50	7.62	0.95				
PINILI	BO. NO. 5 PUBLACION	NW216125	03/24/61	20.43	9.15	0.38	4.58	0.083		
PINILI	BO. OPUN	BP307526		19.20	1.52	0.95				
PINILI	BO. PAGDILAO	BPW11175	05/31/56	35.06	11.28	0.69	2.19	0.320		
PINILI	BO. PAGDILAO	BPW11176	06/22/56	30.49	6.10	0.32	10.67	0.030		
PINILI	BO. PAGDILAO NORTH WESTERN	BP216016	07/24/60	25.78	7.62	0.63	0.17	0.390		
PINILI	BO. PUGAON	BPW11170	04/25/56	27.44	12.20	0.76	0.60	1.260		
PINILI	BO. PUZOL	BPW-6075	04/03/54	54.88	30.66	0.58	27.00	0.014		
PINILI	BO. SALANAP	BPW-6035	03/13/54	53.96	15.85	0.63	3.71	0.170		
PINILI	BO. SALANAP	BPW11172	05/21/56	28.96	6.10	0.32				ABANDONED
PINILI	BO. SALANAP SUR	NWS11167		67.00						
PINILI	BO. STO. TOMAS	NW216017	11/02/60	20.43	7.93	0.32	5.33	0.060		
PINILI	BO. STO. TOMAS	NW297302	02/28/73	12.81	1.52	0.32	0.31	1.036		
PINILI	BO. STO. TOMAS SOUTH	NWS29733	05/19/73	15.72	5.18					
PINILI	BO. TARTARABANG	B1030485	07/10/65	21.40	4.57	0.76				
PINILI	BO. TARTARABANG	BP216015	07/30/60	17.66	6.10	0.50	1.33	0.330		
PINILI	BO. VALBUENA	BP297209		49.30	5.49	0.32				
PINILI	BO. VALBUENA	BPW11174	06/07/56	28.96	7.62	0.63	10.50	0.060		
PINILI	VALBUENA SOUTHWESTERN	BPW11175	06/14/56	30.49	10.67	0.63	7.88	0.080		
PINILI	DON MARIANO MARCOS SCH.	BP297316	05/09/73	28.96	8.23	0.32	4.50	0.070		
PINILI	MARKET SITE	NWS-9752		42.60	8.54	0.32	1.33	0.260		
PINILI	POBLACION	3074-24		9.75	3.90					
PINILI	POBLACION	BP307576	05/31/56	34.76	11.28	0.69	2.17	0.320		
PINILI	POBLACION	BPW-5394	05/24/52	38.11	10.67	1.26	1.54	0.820		
PINILI	PUBLIC MARKET	BP216014	07/15/60	42.68	16.76	0.32	13.13	0.024		
SAN NICOLAS	BO. #1 POBLACION	BPW-5486		10.90						ABANDONED
SAN NICOLAS	BO. #10 POBLACION	NWS20151		23.10	3.05	0.32				
SAN NICOLAS	BO. #13 POBLACION	NWS20150		14.50	4.57	0.32				
SAN NICOLAS	BO. #14	NWS16250		20.70	4.57	0.32				
SAN NICOLAS	BO. #2	BP307638		14.60	4.57	1.26				
SAN NICOLAS	BO. #2 POBLACION	NWS21482	08/26/58	24.09	4.27	0.63	3.31	0.190		
SAN NICOLAS	BO. #20 SAN PABLO WEST	NWS297323	08/18/73	31.34						
SAN NICOLAS	BO. #21 DALAO	BP297322		17.30	4.27	1.26	1.22	1.030		

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MUNICIPAL	WELL_NO	LOCATION	DATE	DEPTH	SWL	DINCHOR	DRAWDN	SFCCP	USAGE	REMARKS
SAN NICOLAS	NWS19567	BO. #4. POBLACION	04/10/56	17.99	9.09	0.30	1.21	0.414		
SAN NICOLAS	NWS21483	BO. #6. POBLACION	04/15/60	37.10	6.10	0.51	0.61	0.830		
SAN NICOLAS	BPW-5923	BO. #7	12/09/53	25.61	5.48	1.89				abandoned
SAN NICOLAS	BP297317	BO. #8		40.20						
SAN NICOLAS	BPW-9485	BO. #8-3	11/19/55	12.19	2.74	0.76	1.22	0.620		
SAN NICOLAS	NWS10245	BO. #9 POBLACION		15.70	5.05	0.32				
SAN NICOLAS	BP307523	BO. ASUNCION		29.20	11.00	0.61				
SAN NICOLAS	NWS10247	BO. BINGAO		20.10	6.10	0.32				ABANDONED
SAN NICOLAS	B1050785	BO. BINGAO HIGH SCHOOL	07/12/85	49.00						POTABLE
SAN NICOLAS	BP297325	BO. BUGNAY		17.60	1.83	2.27	1.83	1.240		
SAN NICOLAS	NWS21481	BO. BUGNAY SCHOOL SITE	07/25/58	25.91	6.10	0.52	10.67	0.040		
SAN NICOLAS	BPW-8789	BO. CATAGUNING	09/13/55	18.29	0.61	0.76	0.61	1.241		
SAN NICOLAS	BP307510	BO. LUSONG		9.16	2.13	0.95	0.30	3.170		
SAN NICOLAS	B1030886	BO. MALINGEB	04/04/85	25.00	4.60	1.30	0.30	4.300		POTABLE
SAN NICOLAS	BPW-9480	BO. MENDORO	01/25/56	16.29	4.57	0.95	2.44	0.390		
SAN NICOLAS	NWS-8788	BO. NAGRIBACAN		17.30	1.83	1.13	1.22	0.940		
SAN NICOLAS	BPW-9481	BO. PAYAS	11/18/55	12.80	3.05	0.57	0.90	0.630		
SAN NICOLAS	NWS10248	BO. SAMAC		32.50						abandoned
SAN NICOLAS	BPW-1097	BO. SAN ANTONIO	07/31/54	14.02	1.52	0.95	2.14	0.443		
SAN NICOLAS	BP307534	BO. SAN ISIDRO		11.50	3.96	0.63				
SAN NICOLAS	BPW-5727	BO. SAN LORENZO	12/08/53	24.39	2.13	1.58	0.31	5.170		
SAN NICOLAS	B1032086	BO. SAN MARCOS	12/07/86	18.30	3.70					
SAN NICOLAS	NWS19568	BO. SAN PABLO	08/19/58	47.26	10.67	0.32	16.00	0.020		
SAN NICOLAS	B1040585	BO. SAN PEDRO	04/26/85	48.80		0.69				
SAN NICOLAS	BPW-9479	CENTRO	11/29/55	17.20	3.66	0.88	0.30	2.930		
SAN NICOLAS	NWS28702	HILL TOP HOTEL	05/24/70	56.40						
SAN NICOLAS	NWS19565	ITIO LANAS SCHOOL SITE	02/26/58	11.89	3.05	0.36	0.61	0.621		
SAN NICOLAS	NWS19566	ITIO TAGUIPURO	02/15/58	14.32	2.74	0.57	0.61	0.933		
SARRAT	NW217005	BALMACEDA'S FARM	02/18/71	54.87	4.57	1.26				
SARRAT	BPW-9483	BO. #3	11/09/55	10.67	3.05	0.57	0.92	0.621		
SARRAT	BPW-5523	BO. #4	08/14/52	33.54	3.05	1.38	1.52	1.040		
SARRAT	BPW-9478	BO. BINARATAN	12/07/57	9.15	1.83	0.63	0.91	0.690		
SARRAT	BPW14930	BO. CABITOGAN	07/07/57	18.29	4.88	0.52	2.13	0.150		
SARRAT	NWS-8251	BO. GASON		14.60	3.05	1.26	0.61	2.070		
SARRAT	BPW30761	BO. PALAD		15.20	6.71	0.76	0.30	2.530		
SARRAT	BP307612	BO. PANDAN		67.00	6.71	0.63				
SARRAT	NWS-7666	BO. PASIR		60.90	18.60	0.32	3.20	0.100		
SARRAT	BPW-30763	BO. PARANG		13.70	6.71	0.63	6.30	2.100		
SARRAT	NWS21614	BO. SAN ANTONIO	04/20/64	30.49	9.15	0.63	1.54	0.410		
SARRAT	BPW	BO. SAN ISIDRO	12/27/66	27.40	6.40	7.90	1.50	5.267		POTABLE
SARRAT	NW216020	BO. SAN LORENZO	02/10/61	19.82	7.62	0.63	3.04	0.207		
SARRAT	NWS14931	BO. SAN NICOLAS	08/14/57	17.36	4.88	0.32	4.92	0.065		
SARRAT	B1030865	BO. SAN ROQUE	08/10/85	18.30	3.06	0.69	1.00	0.690		
SARRAT	NWS14929	BO. SORIAS	07/19/57	16.46	3.66	0.32	8.00	0.040		
SARRAT	NWS-8194	BO. STA. ROSA		28.00	4.57	0.32				
SARRAT	NWS14927	BO. TABUNAY	08/02/57	20.73	6.71	0.38	6.33	0.160		
SARRAT	NWS14928	BO. TAGPAO	08/04/57	19.21	3.65	0.32	8.00	0.040		
SARRAT	BPW-7143	POBLACION	08/30/54	21.34	7.62	0.50	1.51	0.331		

ILOCOS NORTE

MUNICIPAL	LOCATION	WELL_NO	DATE	DEPTH	SWL	DISCHGE	DRAWDWN	SPCCP	USAGE	REMARKS
SOLSONA	BO. BALBAG	BP207652		10.60	1.52	0.95				
SOLSONA	BO. BARCELONA	BP207529		10.90	1.52	0.63				
SOLSONA	BO. CENTRAL ELEM. SCHOOL	BP207555		12.10	1.83	0.95				
SOLSONA	BO. DAKASDAS	NW216231		7.30	1.83	0.63	0.61	1.030		
SOLSONA	BO. TALUGTOG	BP207540		9.10	1.22	0.63				
SOLSONA	BO. TALUGTOG	NW216145	10/21/62	6.10	1.52	0.63	0.61	1.030		
SOLSONA	BO. TALUGTOG	NWS-7665		12.10	2.44	0.32				
SOLSONA	POBLACION	BP292710		10.00	2.74	0.32				
VINTAR	BO. MC STA. MARIA	NWS-7657		33.50	2.13	0.88	1.52	0.580		
VINTAR	BO. #6 LUBONG	NWS21636		24.30	8.54	0.44	7.33	0.060		
VINTAR	BO. ABKER	BPW10525	05/13/56	14.33	10.67	0.50	0.30	1.670		POTABLE
VINTAR	BO. ALEJO MALASI	B103086	02/12/87	24.40	7.60					
VINTAR	BO. BULBULALA	BPW14936		12.80	4.88	0.32	1.88	0.170		POTABLE
VINTAR	BO. ESTER ELEM. SCHOOL	BP207610	07/14/57	22.80	9.76	0.63				
VINTAR	BO. LUBNAC	B1032786	10/27/87	33.40						
VINTAR	BO. LUBONG PARUT	BP216311		24.30		0.44	1.22	0.490		
VINTAR	BO. LUBONG PUGAPUG PARUT	BP216310	04/20/63	18.29	6.10	0.44	7.33	0.060		ABANDONED
VINTAR	BO. MAGABOBO	B1030184	06/08/64	12.80	3.60	0.63	0.61	1.030		POTABLE
VINTAR	BO. MARGAAY	NWS-7096		35.90	4.57	0.76	4.47	0.170		
VINTAR	BO. NANLONG	B1030286	04/01/86	23.00	9.40	1.00	0.40	2.800		POTABLE
VINTAR	BO. NANLONG	BPW20765		27.40	14.90	0.50	4.54	0.110		
VINTAR	BO. PALLAS ELEM. SCHOOL	BP207615		14.60	3.05	0.63				
VINTAR	BO. SALLPAD	B1030185		22.60	6.71	0.69				POTABLE
VINTAR	BO. SALLPAD	BPW14935	02/25/58	22.56	7.93	0.32	2.46	0.130		
VINTAR	BO. SALSALAMAGUE	B1030285	05/27/65	29.00	15.24	0.63	2.05	0.210		
VINTAR	BO. SAN NICOLAS	NWS-7095		29.20	3.05	0.76	0.61	1.250		
VINTAR	SAN NICOLAS PUBLIC MARKET	NWS21495		25.90	4.57	0.63	0.91	0.690		
VINTAR	MUNICIPAL HALL	BP297329	11/27/73	28.60	4.57	0.38	9.50	0.040		

Source:
Notes:

NWRB Well Inventory
DEPTH = Meters Below Ground Level (m)
DRAWDWN = Drawdown (m)

SWL = Static Water Level (m)
SPCCP = Specific Capacity (Use/cm)

DISCHGE = Discharge Rate (l/sec)

7.5 Surface Water Sources

Table 7.5.1
Water Quality Examination Results

In reply, please refer to
Tel. Nos. (2) 95-32-11 to 29
FAX No. (2) 921-2887
Telex No. (722) 27947 MWSS PH



Republika ng Pilipinas
PANGASIWAAN NG TUBIG AT ALKANTARILYA SA METROMANILA

Metropolitan Waterworks and Sewerage System
Katipunan Road, Balara, Quezon City 1105, Philippines

CENTRAL LABORATORY DIVISION
Sewage Research and Analysis Section

14 July 1995

Sample Submitted by : ANTONIO ASTORGA
Date/Time Collected : 29 June 1995/10:40 a.m.
Date/Time Submitted : 30 June 1995/10:45 a.m.
Source of Sample : Padsan River
Ilocos Norte
Sample Analyzed by : N. Alma Jose, R.M. Xavier, M.B. Pineda
and H. B. Labaro

ANALYSIS OF RIVERWATER SAMPLE*

Color	units	:	5.00
Turbidity	units	:	65.00
Conductivity	us/cm	:	170.00
pH		:	7.50
Alkalinity	mg/L	:	64.00
Total Hardness as CaCO ₃	mg/L	:	65.00
Ca Hardness as CaCO ₃	mg/L	:	18.40
Mg Hardness as CaCO ₃	mg/L	:	46.60
Chemical Oxygen Demand (COD)	mg/L	:	184.60
Chloride	mg/L	:	2.70
Sulfate	mg/L	:	21.00
Total Iron	mg/L	:	0.30
Manganese	mg/L	:	0.01
Ammonia-Nitrogen	mg/L	:	0.44

* Sample received as submitted by client.

Submitted by:

B. Astudillo
BUHAY S. ASTUDILLO
Chief Chemist
Sewage Research and Analysis Section
3217-96

Certified Correct:

Concepcion M. Masanga
CONCEPCION M. MASANGA
Division Manager A, Central Laboratory

CABLE ADDRESS:
"MWSS PH"

In reply, please refer to
Tel. Nos. (2) 95-32-11 to 29
FAX No. (2) 921-2887
Telex No. (722) 27947 MWSS PH



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PANGASIWAAN NG TUBIG AT ALKANTARILYA SA METROMANILA

Metropolitan Waterworks and Sewerage System
Katipunan Road, Balara, Quezon City 1105, Philippines
CENTRAL LABORATORY DIVISION
Sewage Research and Analysis Section

14 July 1995

Sample Submitted by : ANTONIO ASTORGA
Date/Time Collected : 29 June 1995/10:15 am
Data/Time Submitted : 30 June 1995/10:45 am
Source of Sample : Bislak River
Vintar, Ilocos Norte
Sample Analyzed by : N. Alma Jose, R.M. Xavier, M.B. Pineda
and H. B. Labaro

ANALYSIS OF RIVERWATER SAMPLE*

Color	units	:	5.00
Turbidity	units	:	25.00
Conductivity	us/cm	:	230.00
pH		:	8.10
Alkalinity	mg/L	:	111.00
Total Hardness as CaCO ₃	mg/L	:	96.00
Ca Hardness as CaCO ₃	mg/L	:	26.85
Mg Hardness as CaCO ₃	mg/L	:	69.15
Chemical Oxygen Demand (COD)	mg/L	:	223.10
Chloride	mg/L	:	2.70
Sulfate	mg/L	:	18.00
Manganese	mg/L	:	0.01
Total Iron	mg/L	:	1.10
Ammonia-Nitrogen	mg/L	:	0.52

* Sample received as submitted by client.

Submitted by:

Buhay S. Astudillo
BUHAY S. ASTUDILLO
Chief Chemist

Sewage Research and Analysis Section

372-96

Certified Correct:

Concepcion M. Masanga
CONCEPCION M. MASANGA
Division Manager A, Central Laboratory

7.6 Future Development Potential of Water Sources.

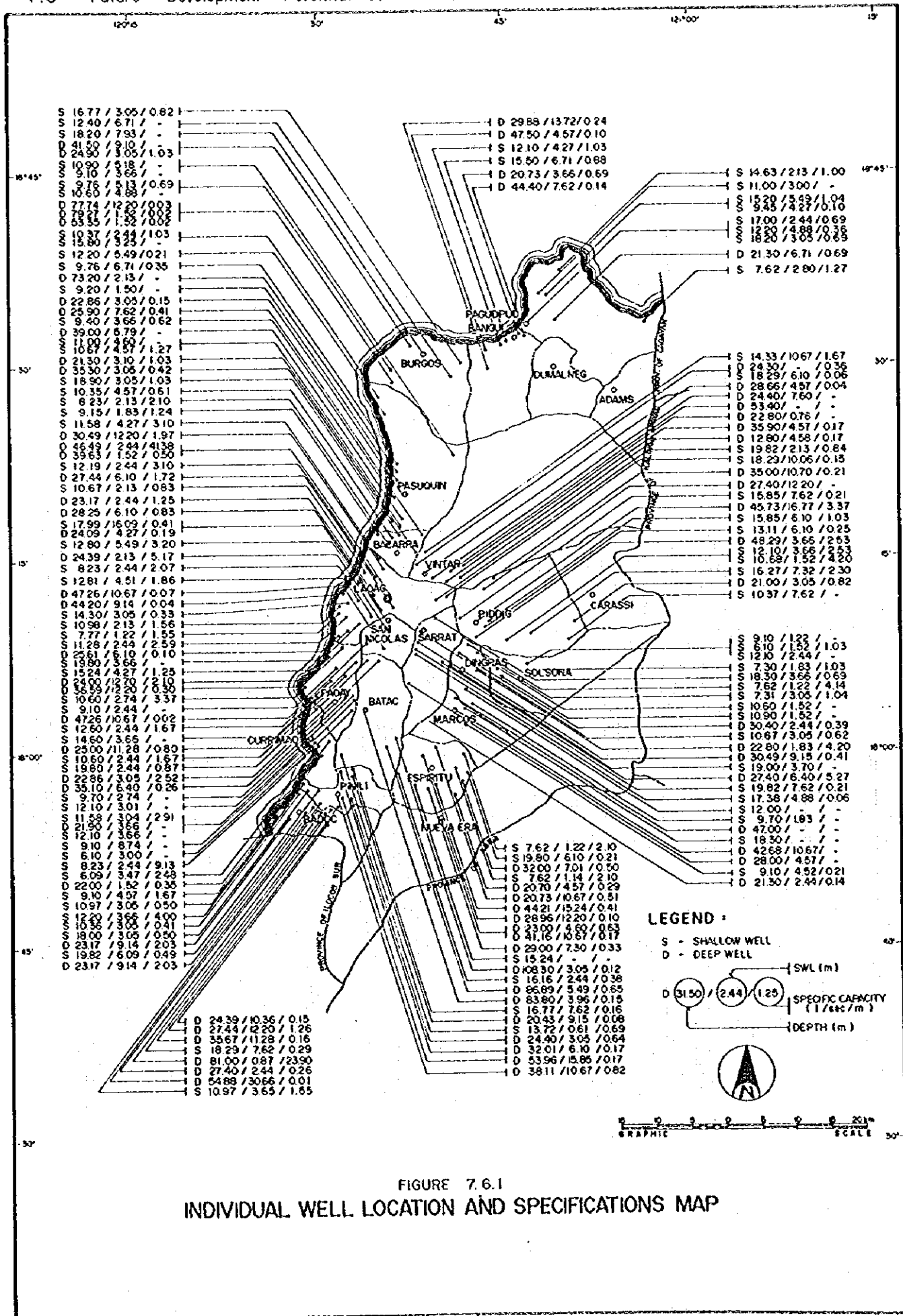
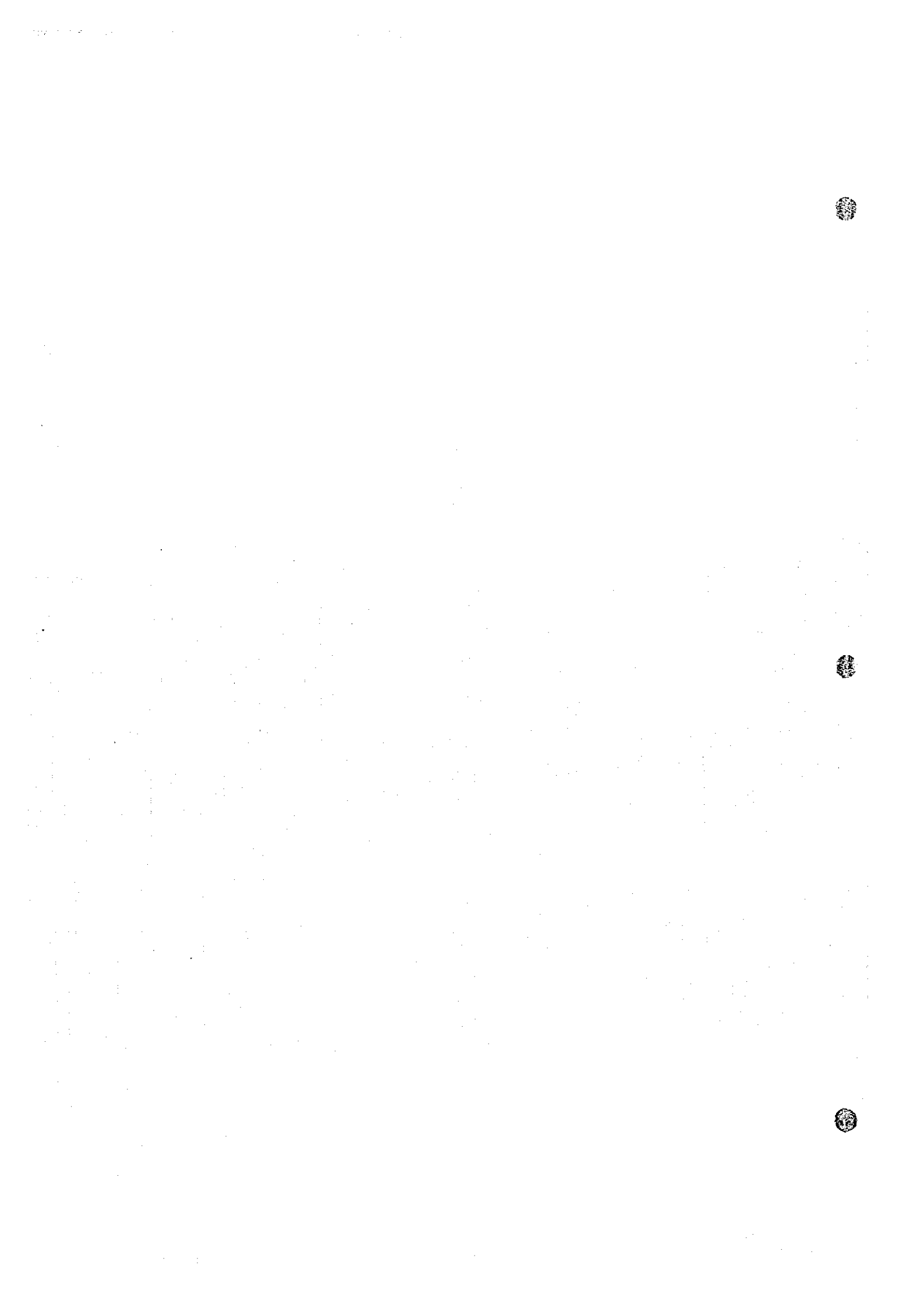


FIGURE 7.6.1
 INDIVIDUAL WELL LOCATION AND SPECIFICATIONS MAP



JICA