RULE 5

ROLES OF NATIONAL GOVERNMENT AGENCIES

Article 13. Department of the Interior and Local Government (DILG). The DILG shall have the following responsibilities in the sector:

a. Raise awareness of LGUs on opportunities relating to the sector, within the framework of relevant government policies, such as financing schemes and available assistance from local and foreign financing institutions, technological breakthroughs, management and institutional arrangements, etc.;

b. Facilitate transactions between LGUs and communities and lending institutions by preparing water supply investment packages, assisting in the financial, economic and institutional and environmental data collection and analysis, etc., in coordination with appropriate national government agencies;

c. Build capacity of LGUs and BWSAs/RWSAs in the general areas of planning, implementation, management, monitoring and evaluation, and regulation, upon agreement with the LGUs, and as required by financing institutions, in coordination with national government agencies such as DPWH in the case of the engineering aspects;

d. Develop and maintain a national data management system of LGU-managed water systems to include data on extent of service coverage, cost recovery, collection efficiency, size of water systems, nature of water resources, among others, in coordination with appropriate national government agencies;

e. Establish a system for monitoring strategic performance of LGUs in relation to the sector, including compliance with technical standards established by LWUA and DPWH;

f. Upon agreement with the LGU, provide technical assistance in the establishment of a system of public performance audit, in collaboration with appropriate national government agencies;

g. Coordinate sector activities of LGUs vis-a-vis other national government documents and issue regular bulletins;

h. Monitor the implementation of this IRR, including the formulation of monitoring and evaluation parameters and reporting requirements; and

i. Act as the coordinator for projects funded by the National Government per NEDA Board Resolution No. 6 (series of 1996).

Article 14. Local Water Utilities Administration (LWUA). The LWUA shall have the following responsibilities in the sector:

a. Act as a specialized lending institution for local water districts;

b. Provide technical assistance to local water districts in the areas of operation, maintenance, personnel training and fiscal practices;

c. Upon agreement with the LGU, provide technical and financial assistance in the conduct of engineering studies;

d. Approve tariffs of local water districts;

e. Establish and update, as and when necessary, the technical standards for local water utilities, including LGU-managed systems;

f. Monitor and evaluate the performance of local water districts; and

g. Registered RWSAs and furnish all registration documents to DILG.

Article 15. Department of Public Works and Highways (DPWH). The DPWH shall have the following responsibilities in the sector:

a. Set and/or update, as and when necessary, technical standards for engineering surveys, design, construction and operation and maintenance of Level I systems;

b. Upon agreement with the LGUs, assist in the conduct of engineering surveys and in the preparation of plans, specifications and programs of work, through its District Offices;

c. Upon agreement with the LGUs, assist in construction management, through its District Offices; and

d. Conduct technical researches in coordination with the LGUs.

Article 16. Department of Health (DOH). The DOH shall have the following responsibilities in the sector:

a. Set and/or update, as and when necessary, standards on water quality testing, treatment and surveillance, and sanitary practices;

b. Provide technical assistance to the LGUs in the conduct of periodic water quality control and surveillance-related activities; and

c. Monitor and evaluate, on a regular basis, health and hygiene education programs implemented by local health offices, particularly in areas where waterworks systems are expected to be constructed.

Article 17. National Water Resources Board (NWRB). The NWRB shall have the following responsibilities in the sector:

a. Regulate the use of water resources through the issuance of water rights;

b. Regulate tariffs of privately-run water system; and

c. Establish and manage a user-friendly water resources data management system.

Article 18. Metropolitan Waterworks and Sewerage System (MWSS). The MWSS shall be responsible for water systems in Metro Manila and its adjacent areas.

RULE 6
RURAL/BARANGAY WATERWORKS AND SANITATION ASSOCIATIONS

Article 19. General Provision. A Rural/Barangay Waterworks and Sanitation Association shall be formed to manage public water systems and sanitation facilities: RWSAs for Level II systems and BWSAs for Level I systems. RWSAs/BWSAs shall initiate/assist in site identification, planning, implementation and evaluation of water supply projects as well as guide the construction and/or maintenance of household and community latrines (toilets).

Article 20. Organization of RWSAs/BWSAs. RWSAs and BWSAs shall be organized upon initiation of the LGU. A participatory approach shall be adopted in the formation of RWSAs/BWSAs with the LGU concerne3d taking the lead and non-government organizations (NGOs) providing technical assistance, as necessary. Prior to the formation of RWSAs/BWSAs, dialogues shall be conducted with and among all stakeholders such as women's groups, civic and religious organization, health practitioners, NGOs and other people's organizations.

Article 21. Registration Requirements. RWSAs/BWSAs shall register with DILG. BWSAs shall be encouraged to associate with other BWSAs or the RWSAs prior to registration. DILG shall keep a record of all registration documents.

Article 22. Powers. Every duly registered RWSAs/BWSA shall be autonomous and shall have the power and capacity to:

a. Award and enter into a contract(s) with private contractors for the delivery of necessary services or the supply of materials, in the course of managing a public water and sanitation facility, subject to existing laws, rules and regulations;

b. Oversee the implementation of project undertaken by private contractors;

c. Own and mange the operation of th4e water facility in a sustainable manner, including providing for adequate reserves for maintenance and repair, setting appropriate levels of user fees, and implementing billing and collection schemes;

d. Handle the activities required of any lawful business transaction entered into by the Association;

e. Enter into agreement with other RWSAs/BWSAs for any merger or consolidation as may be proven advantageous to their operations;

f. Convene meetings of water users for the purpose of information dissemination, consultation, public hearing on water rates and other activities deemed important;

g. Initiate improvements in operations found to be advantageous and favorable to the communities concerned;

h. Decide on matters found to be advantageous and favorable to the communities concerned; and

i. Prepare an annual report on its operations.

Article 23. Capability Building of RWSAs/BWSAs. RWSAs and BWSAs may request assistance for capability building form LGUs and/or DILG, DPWH and other concerned agencies, through the LGUs.

RULE 7
PROJECT DEVELOPMENT AND IMPLEMENTATION

Article 24. Sector Planning. Planning and development of water supply investment shall be made within the framework of national policies, and shall implement specific targets in the provincial and city/municipal sector plans. These plans shall define the strategies, policies and approaches in sector development at different levels of government. A National Sector Plan for Water Supply, Sewerage and Sanitation shall be prepared, and updated, on a regular basis, by the National Economic and Development Authority (NEDA), in coordination with the concerned oversight water agencies, and shall provide the national policy framework. At the provincial level, the LGUs, through their respective Provincial Planning and Development Offices, shall prepare, and update, on an annual basis, the Provincial Water Supply, Sewerage and Sanitation Sector Plans. At the city/municipal level, a similar sector plan shall be prepared and updated, on an annual basis, by the LGUs, through their City/Municipal Planning and Development Offices. The respective Local Councils shall approve the provincial and city/municipal sector plans.

Article 25. Project Identification. On the basis of the provincial and city/municipal sector plans, water supply investments shall be identified and developed into a local investment program that includes an appropriate financing plan. The Local Council concerned shall approve the local investment program. The proposed investments shall then be developed according to a demand-driven approach that would allow beneficiaries to select from among cost-effective technical options and from among financing options. The LGUs may avail of technical assistance from the DILG in the preparation of these project packages (Rule 5).

Water supply investment shall be developed tot he principles of managing water services at the most appropriate level and providing services based on what local consumers want and are willing to pay for. This means that LGU systems shall be constructed on the basis of choosing among technical options that are affordable through the financial resources made available by users, communities and LGUs. The process of determining demand for a particular service delivery shall be concluded through a negotiated agreement between the LGU, water utility and the users, on how the costs will be shared at the town, barangay and household levels.

Article 26. Technical Aspects. Technically feasible options shall be developed, particularly for a Level II service level. These options may include varying levels of operation (in terms of operating hours), which may have substantial implications on capital and operating and maintenance costs. In addition, the operation and management (O&M) cost of a technical option is strongly influenced by the management mode chosen by an LGU, economies of scale factors and the size of the service area. Thus, for any Level III service, at least two technical options shall be explored; those of an inter-LGU service delivery organization involving amalgamation of service areas and of singled LGU management systems. The former option shall be explored and developed further only upon agreement with the LGU concerned.

In the conduct of the engineering work (i.e., feasibility studies and detailed design), the LGUs may tap the services of the private sector, using their internal resources or may request the DILG, DPWH and/or LWUA for financial and/or technical assistance.

Article 27. Financing and Management Options. A range of options is available to the LGUs on financing and management of Level III systems. They include, but are not limited to, the following options:

Options 1: The LGU may finance the system from its internal resources or may borrow from a financial institution. It may then create a **profit center within the LGU** office with a separate cost accounting system. Under this arrangement, the LGU may directly manage the system or may enter into a **management contract** with a private party or a **service contract** with a private party to handle billing and collection and/or repair and maintenance. In these types of management arrangements, the LGU retains the responsibility for providing the service and assumes the commercial risks. Institutions such as neighboring water districts, cooperatives and other private institutions may be tapped by the LGU for these types of contracts.

Option 2: The LGU may enter into a **lease contract** with private party to operate and manage the system. Under this arrangement, the LGU finances the capital expenditures from its internal resources or from borrowings. The LGU then leases the facility to a private party, which assumes the commercial risks and the responsibility for operation and maintenance. The private party is allowed to recover the costs from user fees, and may also collect, on behalf of the LGU, any other charges contributing to the repayment of a loan which the LGU may have taken on behalf of the users.

Option 3: The LGU may enter into **concession contract** with a private party. Under this arrangement, the private party assumes the operations and management of the assets of the LGU, and

undertakes to expand and finance the services according to the terms and conditions of the contract. The private party is then allowed to operate the system, and recover its costs and earn a reasonable return on its investment from user fees. The private party also assumes the commercial risk. After the concession contract expires, the system reverts to the LGU, or may be contracted out again by the LGU.

Option 4: The LGU may create a **local water district,** in accordance with Presidential Decree No. 198, as amended.

Option 5: The **LGU may form a water company** to handle the provision of the service.

The LGU appoints the Board of Directors to be tapped from the private sector who would manage the company along commercial principles.

Options 6: The LGU may enter into contract with a private party under the **Build-Operate-Transfer scheme or any of its variants**, per Republic Act No. 6970, as amended, for the whole water system or a component of it (i.e., source development or distribution).

Option 7: The LGU may enter into a **joint venture agreement** with a private party in providing the service. Under this arrangement, both parties share in the risks of the project, as well as operate the water supply system through a shared management and organization structure.

In the contracts of LGUs with private parties, performance standards shall be stipulated including remedies for non-performance that are consistent with national regulatory laws.

The DILG, in its role of raising awareness of LGUs on opportunities in the sector, shall be responsible for informing the LGUs of these schemes, and in facilitating the implementation of the preferred option. **Annex D** provides a matrix of these various schemes.

RULE 8
COORDINATION AND COLLABORATION MECHANISMS

Article 28. Inter-LGU Collaboration. Provinces, cities, municipalities and barangays may assist, coordinate and collaborate with each other, as far as practicable, in the effort of improving the delivery of services to the Filipino people. The DILG shall take the lead in coordinating among the LGUs.

Article 29. Coordination Between Local and National Governments. LGUs may avail of the technical, financial and institutional expertise of national agencies like LWUA, DPWH, DILG, NWRB, DOH and DENR. DILG, as appropriate, shall coordinate with other national agencies on behalf of the LGUs.

RULE 9
TRANSITION ARRANGEMENTS

Article 30. Ongoing Projects. The DPWH, DOH and DILG shall continue to implement ongoing foreign-assisted Level I projects until the completion of such projects.

Article 31. Pipeline Projects. Projects in the pipeline shall conform to the provisions of this IRR to the extent possible.

RULE 10
MISCELLANEOUS PROVISIONS

Article 32. Applicability Clause. The application of this IRR shall be without prejudice to existing and future laws, rules, regulations, and/or international agreements entered into by the Philippine Government.

Article 33. Effectivity of the IRR. These Implementing Rules and Regulations shall take effect upon its approval by the NEDA Board, on recommendation by the Infrastructure Committee. It shall then be published in at least two national newspapers of general circulation.

Annex A

NEDA Board Resolution No. 5 (series of 1998)

APPROVING THE IRR ONTHE DELINEATION OF RESPONSIBILITIES IN THE DEVELOPMENT AND IMPLENTATION OF WATER SUPPLY PROJECTS

On motion duly seconded,

BE IT RESOLVED, as it is hereby resolved, to approve as it is hereby approved, the Implementing Rules and Regulations (IRR) on the Delineation of Responsibilities in the Development and Implementation of Water Supply Projects.

UNANIMOUSLY APPROVED, 17 March 1998.

Annex B

NEDA Board Resolution No. 4 (series of 1994)

APPROVING THE RECOMMENDATION OF THE INFRASTRUCTURE COMMITTEE (INFRACOM) ON THE REFORMS IN THE WATER SUPPLY SECTOR

On motion duly seconded,

BE ITS RESOLVED, as it is hereby resolved, to approve and confirm, as the same is hereby approved and confirmed the following recommendations of the INFRACOM:

a. Registration with the National Water Resources board (NWRB) of all drilling and the extraction o9f water therefrom, irrespective of the use of extracted water and ownership of the land where the well is to be drilled. Amendment to Article 6 of the Water Code (PD No. 1067) shall be initiate by NWRB to this effect. Subsequently, NWRB shall formulate rules and regulations for the effective enforcement of this requirements within sixty (60) days after approval of the proposed amendment.

b. Strengthening of the NWRB staff in order to effectively cope with the planning, monitoring and implementation activities of the water resources sector. NWRB shall submit an action plan to this effect to INFRACOM for review and endorsement to the President of the NEDA Board.

c. Reorientation of the Local Water Utilities Administration (LWUA) to its original corporate mission as a "specialized lending institution" financing only viable water supply projects with tariff levels formulated towards full cost recovery. LWUA shall therefore upgrade its banking and finance expertise and immediately complete its financial restructuring. Further, it should radically improve its collection efficiency as well as its database and accounting systems.

d. Privatization of all existing Water Districts (WDs) should be vigorously pursued whenever feasible and large commercially viable water services areas like Metro Manila, Cebu, Zamboanga, Davao should be formed or converted into SEC-style private water corporations, independent of LWUA and other government funding institutions by subject to regulation by NWRB.

e. Procurement needs of WDs should bed provided based on a competitive basis and not centrally imposed.

f. LWUA shall submit an action plan to INFRACOM to effect the recommended reforms for review and endorsement.

g. With respect to the delineation of responsibilities in the sector, NEDA Board Resolution No. 5 (series of 1998) is proposed to be amended to allow local government units (LGUs) to implement all levels of water supply projects consistent with government's decentralization and devolution process, mandating LWUA to implement only financially viable projects and further defining the roles of the agencies in the sector. The proposed amendment is as follows:

"Level I (point source system), Level II (communal faucet) and Level III (house connections?) water supply projects may be implemented by the concerned LGUs within their jurisdiction. LWUA shall implement only financially viable Level III water supply projects in areas outside the MWSS jurisdiction. DILG's participation will consist of general administration and institution building, such as assistance to the LGUs in the formation of Rural and/or Barangay Waterworks and Sanitation Associations (RWSAs/BWSAs) as well as in the identification of water supply systems. MWSS will be responsible for Level II water systems in Metro Manila and adjacent areas. DPWH, together with DILG and DOH, will provide technical assistance (within a period of about 2 years) to LGUs in the planning, implementation and operation and maintenance of water supply facilities".

UNANIMOUSLY APPROVED, 15 March 1994.

Annex C

NEDA Board Resolution No. 6 (series of 1996)

APPROVING THE RECOMMENDATIONS OF THE INFRASTRUCTURE COMMITTEE (INFRACOM) ON THE EXECUTING AGENCY ARRANGEMENT FOR THE DEVOLVED INFRASTRUCTURE ACTIVITIES/FACILITIES

On motion duly seconded,

BE IT RESOLVED as it is hereby resolved, to approve and confirm as the same is hereby approved and confirmed, the following recommendations of INFRACOM on national government (NG) assistance to Local Government Units (LGUs) in the implementation of devolved infrastructure activities/facilities under the Local Government Code in support of national priority programs in order to ensure efficiency, effectivity and more focused implementation consistent with the Government's decentralization and devolution objectives:

a. DILG, which has administrative supervision over LGUs, shall be the lead national government agency (NGA) to oversee/administer NG assistance to LGUs in the implementation of devolved infrastructure programs/projects with the collaboration/participation of other concerned agencies. The identification and formulation of infrastructure programs/projects devolved to LGUs proposed for NG assistance shall therefore be coordinated with DILG to rationalize their development;

b. The implementation of identified devolved infrastructure programs/projects shall be undertaken by the LGUs with DILG providing assistance in institution, capacity and capability building of the LGUs and with DPWH and other technical agencies providing and transferring technical expertise to the LGUs as necessary. The levels of capacities and capabilities of LGUs shall be determined by the DILG in coordination and collaboration with DPWH and other concerned agencies to determine, among others, the extent of support and assistance that these national agencies should provide in order to effect the successful implementation of devolved NG-assisted infrastructure programs/projects:

c. DILG, as the lead agency, shall include in its annual budget the financial requirements necessary for the implementation of the identified and approved devolved infrastructure programs/projects.

This shall be without prejudice to any future funds arrangement that the national government may adopt with regard to NG assistance to LGUs for devolved projects particularly funds source from foreign loans and grants;

d. For on-going and already committed devolved infrastructure programs/projects with NG assistance, the same shall be implemented with the previously identified NGA as lead in order not to disrupt is prosecution. However, there shall be phasing in at DILG and LGUs in the implementation arrangements for these devolved infrastructure projects in accordance with the provisions of this Resolution for purposes of policy and operational consistency and thus, effect a smooth transition;

e. To efficiency and effectively implement the provisions of this Resolution, the INFRACOM shall formulate and periodically review the guidelines, rules and regulations that will already define the specific roles of the various concerned agencies in the implementation of NG assistance to LGUs for devolved infrastructure activities/utilities as well as the appropriate implementing mechanisms. In addition, INFRACOM shall likewise formulate the criteria and program for phasing out NG assistance to LGUs for devolved infrastructure activities/facilities;

f. To carry out its tasks, the INFRACOM may request for financial and technical assistance form participating government agencies as well as from multilateral and bilateral sources; and

g. The provisions of this Resolution shall apply to all NG assistance for devolved infrastructure activities/utilities unless otherwise explicitly provided for under the existing and future laws, such as the General Appropriations Act (GAA).

UNANIMOUSLY APPROVED, 12 March 1996.

Annex D

MATRIX OF FINANCING AND MANAGEMENT OPTIONS

OPTION	DESCRIPTION
LGU-Financed and Managed	The LGU finances the investment from its income and other resources available to it (e.g., URA, locally-generated taxes, grants) or borrows from a financial institution. It then establishes a profit center within the LGU office with a separate cost accounting system. Under this arrangement, the LGU directly manages the operations of the system. The LGU assumes the commercial risk.
Service Contract	The LGU finances the investment and directly operates and manages the system. It enters into contract with a private party to undertake billing and collection and/or repair and maintenance activities for a fee. The LGU maintains a profit center within the LGU office and assumes the commercial risk.
Management Contract	The LGU finances the investment and enters into contract with a private party to manage the system. The private party collects the water tariffs set by the LGU, operates and manages the system and in turn, is paid a management fee by the LGU. The LGU maintains a profit center within the LGU office and assumes the commercial risk.
Lease Contract	The LGU finances the capital expenditures and leases the facility to the private sector. The private sector assumes the commercial risks and the responsibility for operation and maintenance. To recover its costs, the private party is allowed to collect user fees as well as any other charges on behalf of the LGU.
Concession Contract	The LGU enters into contract with a private party to

	undertake the investment. The private party assumes the assets of the LGU and undertakes to expand the services according to the terms and conditions of the contract. The private party is allowed to operate the system and to collect user fees to recover its costs and earn a reasonable return on its investment. After the contract expires, the system reverts to the LGU or may be contracted out again by the LGU.
Creation of a Local Water District	The LGU may create a local water district. The local water district finances the investment from a loan from the Local Water Utilities Administration (LWUA) and operates and manages the system. The local water district is then supervised by LWUA.
LGU Company	The LGU may form a water company to handle the provision of the service. The water company shall be duly registered with the Securities and Exchange Commission (SEC) and shall have share holdings which can be sold to the private sector in the future. The LGU appoints the board members to be selected from the private sector who would then manage the company along commercial principles.
Build-Operate-Transfer or any of its variants (per RA 6970 as amended)	Under the BOT scheme, the private sector finances the investment, operates it for a certain period of time after which the asset is transferred to the LGU. The private party is allowed to collect user fees to recover its costs and earn a reasonable rate of return on its investment. The LGU and the BOT proponent negotiate on the risk sharing.
Joint Venture Agreement	Under a joint venture agreement, the LGU and the private party share in the risks of the project and operate the system through a shared management and organizational structure.

NEDA BOARD RESOLUTION
No. 5 (s. 1994)

APPROVING THE RECOMMENDATION OF THE INFRASTRUCTURE COMMITTEE (INFRACOM) ON THE NATIONAL POLICY, STRATEGY AND ACTION PLAN FOR URBAN SEWERAGE (LIQUID WASTE) AND SANITATION

On motion duly seconded,

BE IT RESOLVED, as it hereby resolved to approve as the same is hereby approved and confirmed the following recommendations of the INFRACOM:

A. NATIONAL POLICY

1. Provision of improved sewerage/sanitation services in urban areas shall be considered a high priority.
2. On-site sanitation facilities for all urban households / establishments readily adaptable to further sewerage systems shall be required.
3. All new subdivisions/housing developments shall provide simplified or conventional sewerage system/sanitation facilities.
4. Conventional or low-cost sewerage for central business districts and for potentially high-income residential areas where economically and financially viable shall be provided.
5. Treatment of industrial as well as collected city/municipality wastewater to established standards set forth by the DENR prior to disposal into the drainage system shall be required.
6. Provision of services shall be based on consumer demand and willingness to pay.

B. NATIONAL STRATEGY

1. A sanitation/sewerage program and a Central Sanitation/Sewerage program Support Office (CPSO) to coordinate subsector activities at the national level and to assist LGUs to plan and manage sanitation/sewerage programs at the community level shall be established.

2. External sources of assistance shall be explored provided as may be appropriate to enable Municipal Development Fund (MDF) facility or other financing sources to extend loans to LGUs for sanitation and sewerage projects.

3. LGUs shall primarily be the implementors of the sanitation/sewerage programs with the national government providing assistance to develop their capacities in the following areas: community participation, sub-sector planning, program management, regulation of development, selection of technologies, financial management, construction supervision, O&M, monitoring and reporting.

C. ACTION PLAN

1. A CPSO shall be created and housed at LWUA with the LWUA Board exercising over-all jurisdiction over its operations. An Inter-departmental Advisory Committee (IAC) composed of representatives from DPWH, DOH, DILG, DOF, DBM, LWUA, DENR, MWSS and NEDA shall likewise be created and act as the coordination body in the implementation and monitoring of urban sewerage and sanitation programs particularly the five (5) pilot areas (Davao City, Calamba, Dagupan City, Roxas City and Cotabato City). The representatives to the IAC shall preferably be Asst. Sec. or Dir. level. The Chairman of the IAC and the Dir. of the CPSO shall be appointed by the LWUA Board.

2. LWUA shall fully staff the CPSO from within its existing manpower as soon as possible. An international institutional development consultant shall be engaged to assist the CPSO to design and implement the activities. The CPSO shall exist for a period of about 3 to 5 years or until after its functions have been fully devolved to the LGUs.

UNANIMOUSLY APPROVED, 15 March 1994.

Certified true copy:

FORTUNATO R. ABRENILLA
Acting Board Secretary
and Director, Legal Staff

7. WATER SOURCE DEVELOPMENT

7.1 General

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)				Page: 1 of 22
Content: Water Source - General Information			Date:	
Data Collection Level: Provincial	Province No.: 0837		Filename: Water Source xls	
Region Number: VIII	Province Name: Leyte			Form Number: P.4.1

	Type of Water Source		Shallow Well	Deep Well	Spring
	Total number of water sources	Number	13,164	1,520	900
Implementor	Government Agency	Number	5,581	568	900
	Private	Number	7,583	952	
Level	Level I	Number	13,164	1,492	725
	Level II	Number		18	162
	Level III	Number		10	13
Ownership	Water District	Number		10	4
	MEO/CEO	Number		9	112
	RWSA	Number			2
	BWSA	Number		9	17
	Institution	Number			
	Commercial Establishment	Number			
	Industrial/Agricultural Undertaking	Number			
	Public (Domestic)	Number	5,581	540	765
	Private (Domestic)	Number	7,583	952	
Abstraction	Submersible/Turbine	Number			
	Centrifugal	Number			
	Handpump	Number			
	Bucket & Rope	Number			
	Free Flowing	Number			
Usage	Drinking	Number			
	Washing/Bathing	Number			
	Gardening/Irrigation	Number			
	Big-Scale Irrigation	Number			
	Production	Number			
Water Quality	No Quality Problem	Number			
	High Iron/Mag. Content	Number			
	High Chloride Content	Number			
	Turbidity/Colored/Smell	Number			
	Polluted/Contaminated	Number			
	Chlorinated	Number			
	Treated	Number			
Production	Seasonal Production	Number			
	Average Capacity <.240 m^3/day	Number		16	28
	Average Capacity >= 240 m^3/day	Number	13,164	1,504	872
	Number of Household < 5	Number			
	Number of Household >= 5	Number			

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)								Page: 2 of 22
Content: **Water Source - General Information**						Date:		
Data Collection Level: **Provincial**		Province No.:0837				Filename: Water Source.xls		
Region Number:VIII		Province Name: Leyte				Form Number: P.4.1		
	Name of Municipalities	Character	Abuyog			Alangalang		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	26	125		906	43	21
Imple-mentor	Government Agency	Number		2		586	36	21
	Private	Number	26	123		320	7	
Level	Level I	Number	26	123		906	43	21
	Level II	Number						
	Level III	Number		2				
Ownership	Water District	Number		2				
	MEO/CEO	Number						
	RWSA	Number						
	BWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number				586	36	21
	Private (Domestic)	Number	26	123		320	7	
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number		2				
	Average Capacity >= 240 m^3/day	Number	26	123		906	43	21
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)							Page: 3 of 22	
Content: **Water Source - General Information**						Date:		
Data Collection Level: **Provincial**			Province No.:0837			Filename: Water Source.xls		
Region Number:VIII			Province Name: Leyte			Form Number: P.4.1		
	Name of Municipalities	Character	Albuera			Babatngon		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	2,017	16	57	122	30	21
Implementor	Government Agency	Number	136	16	57	25	23	21
	Private	Number	1,881			97	7	
Level	Level I	Number	2,017	14	52	122	27	12
	Level II	Number		2	5		3	8
	Level III	Number						1
Ownership	Water District	Number						
	MEO/CEO	Number		1			3	8
	RWSA	Number						
	BWSA	Number		2				
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	136	13	57	25	20	13
	Private (Domestic)	Number	1,881			97	7	
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number						4
	Average Capacity >= 240 m^3/day	Number	2,017	16	57	122	30	17
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)					Page: 4 of 22		
Content: **Water Source - General Information**					Date:		
Data Collection Level: **Provincial**		Province No.:0837			Filename: Water Source.xls		
Region Number:VIII		Province Name: Leyte			Form Number: P.4.1		
	Name of Municipalities	Character	Barugo			Bato		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	248	8	12	122	79	11
Implementer	Government Agency	Number	53	8	12	62	44	11
	Private	Number	195			60	35	
Level	Level I	Number	248	8	8	122	76	7
	Level II	Number			4		2	4
	Level III	Number					1	
Ownership	Water District	Number					1	
	MEO/CEO	Number						1
	RWSA	Number						
	BWSA	Number					2	2
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	53	8	12	62	41	8
	Private (Domestic)	Number	195			60	35	
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number					1	
	Average Capacity >= 240 m^3/day	Number	248	8	12	122	78	11
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)					Page: 5 of 22		
Content: **Water Source - General Information**				Date:			
Data Collection Level: **Provincial**		Province No.:0837		Filename: Water Source.xls			
Region Number:VIII		Province Name: Leyte			Form Number: P.4.1		
	Name of Municipalities	Character	Baybay			Burauen		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	65	35	114	777	13	4
Imple-mentor	Government Agency	Number	10	24	114	777	13	4
	Private	Number	55	11				
Level	Level I	Number	65	35	68	777	13	
	Level II	Number			44			2
	Level III	Number			2			2
Ownership	Water District	Number			2			
	MEO/CEO	Number			44			4
	RWSA	Number						
	BWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	10	24	68	777	13	
	Private (Domestic)	Number	55	11				
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number			8			4
	Average Capacity >= 240 m^3/day	Number	65	35	106	777	13	
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)							Page: 6 of 22	
Content: Water Source - General Information						Date:		
Data Collection Level: Provincial		Province No.:0837				Filename: Water Source.xls		
Region Number:VIII		Province Name: Leyte				Form Number: P.4.1		
	Name of Municipalities	Character	Calubian			Capoocan		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	229	22	17	12	2	31
Implementor	Government Agency	Number	81	19	17	2	2	31
	Private	Number	148	3		10		
Level	Level I	Number	229	20	11	12	2	31
	Level II	Number		2	6			
	Level III	Number						
Ownership	Water District	Number						
	MEO/CEO	Number		2	6			
	RWSA	Number						
	BWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	81	17	17	2	2	31
	Private (Domestic)	Number	148	3		10		
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number						
	Average Capacity >= 240 m^3/day	Number	229	22	17	12	2	31
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)					Page:7 of 22		
Content: Water Source - General Information					Date:		
Data Collection Level: Provincial		Province No.:0837			Filename: Water Source.xls		
Region Number:VIII		Province Name: Leyte			Form Number: P.4.1		
	Name of Municipalities	Character	Carigara			Dagami		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	12	2	7	76	10	15
Implementor	Government Agency	Number	12	2	7	21	10	15
	Private	Number				55		
Level	Level I	Number	12	1	6	76	10	13
	Level II	Number		1	1			2
	Level III	Number						
Ownership	Water District	Number						
	MEO/CEO	Number		1				1
	RWSA	Number						
	BWSA	Number			1			1
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	12	1	6	21	10	13
	Private (Domestic)	Number				55		
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number						
	Average Capacity >= 240 m^3/day	Number	12	2	7	76	10	15
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)							Page: 8of 22
Content: **Water Source - General Information**					Date:		
Data Collection Level: **Provincial**		Province No.:0837			Filename: Water Source.xls		
Region Number: VIII		Province Name: Leyte			Form Number: P.4.1		
	Name of Municipalities	Character	Dulag			Hilongos		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	1,583	3		150	60	15
Imple-mentor	Government Agency	Number	627	3		70	36	15
	Private	Number	956			80	24	
Level	Level I	Number	1,583	2		150	53	15
	Level II	Number					4	
	Level III	Number		1			3	
Ownership	Water District	Number		1			3	
	MEO/CEO	Number						
	RWSA	Number						
	BWSA	Number					4	
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	627	2		70	29	15
	Private (Domestic)	Number	956			80	24	
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number		1			7	
	Average Capacity >= 240 m^3/day	Number	1,583	2		150	53	15
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)								Page: 9 of 22
Content: Water Source - General Information						Date:		
Data Collection Level: Provincial		Province No.:0837				Filename: Water Source.xls		
Region Number:VIII		Province Name: Leyte				Form Number: P.4.1		
	Name of Municipalities	Character	Hindang			Inopacan		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	865	595	16	229	3	12
Imple-mentor	Government Agency	Number	48	73	16	62		12
	Private	Number	817	522		167	3	
Level	Level I	Number	865	595	10	229	3	12
	Level II	Number			6			
	Level III	Number						
Ownership	Water District	Number						
	MEO/CEO	Number			1			
	RWSA	Number						
	BWSA	Number			5			
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	48	73	11	62		12
	Private (Domestic)	Number	817	522		167	3	
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problems	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number			1			
	Average Capacity >= 240 m^3/day	Number	865	595	15	229	3	12
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)								Page:10 of 22
Content: **Water Source - General Information**						Date:		
Data Collection Level: **Provincial**		Province No.:0837				Filename: Water Source.xls		
Region Number:VIII		Province Name: Leyte				Form Number: P.4.1		
	Name of Municipalities	Character	Isabel			Jaro		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	25	55	27	91	1	26
Implementor	Government Agency	Number	25	13	27	80	1	26
	Private	Number		42		11		
Level	Level I	Number	25	54	27	91		14
	Level II	Number						12
	Level III	Number		1			1	
Ownership	Water District	Number		1			1	
	MEO/CEO	Number						11
	RWSA	Number						
	BWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	25	12	27	80		15
	Private (Domestic)	Number		42		11		
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number		1			1	3
	Average Capacity >= 240 m^3/day	Number	25	54	27	91		23
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)							Page: 11 of 22	
Content: **Water Source - General Information**						Date:		
Data Collection Level: **Provincial**		Province No.:0837				Filename: Water Source.xls		
Region Number:VIII		Province Name: Leyte				Form Number: P.4.1		
	Name of Municipalities	Character	Javier (Bugho)			Julita		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	8	79	15	314	4	
Implementor	Government Agency	Number	8	47	15	42	4	
	Private	Number		32		272		
Level	Level I	Number	8	78	10	314	4	
	Level II	Number		1	3			
	Level III	Number			2			
Ownership	Water District	Number						
	MEO/CEO	Number						
	RWSA	Number						
	BWSA	Number			3			
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	8	47	12	42	4	
	Private (Domestic)	Number		32		272		
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number		1	3			
	Average Capacity >= 240 m^3/day	Number	8	78	12	314	4	
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)					Page:12 of 22		
Content: **Water Source - General Information**					Date:		
Data Collection Level: **Provincial**		Province No.:0837			Filename: Water Source.xls		
Region Number:VIII		Province Name: Leyte			Form Number: P.4.1		
	Name of Municipalities	Character	Kananga			La Paz		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	106	10	74	326	21	11
Implementor	Government Agency	Number	67	2	74	134	19	11
	Private	Number	39	8		192	2	
Level	Level I	Number	106	10	67	326	21	10
	Level II	Number			7			1
	Level III	Number						
Ownership	Water District	Number						
	MEO/CEO	Number						1
	RWSA	Number						
	BWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	67	2	74	134	19	10
	Private (Domestic)	Number	39	8		192	2	
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number						
	Average Capacity >= 240 m^3/day	Number	106	10	74	326	21	11
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)					Page: 13 of 22		
Content: **Water Source - General Information**					Date:		
Data Collection Level: **Provincial**		Province No.:0837			Filename: Water Source.xls		
Region Number: VIII		Province Name: Leyte			Form Number: P.4.1		
	Name of Municipalities	Character	Leyte			Mac Arthur		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	15	12	53	462	3	3
Imple-mentor	Government Agency	Number	10	7	53	202	3	3
	Private	Number	5	5		260		
Level	Level I	Number	15	12	37	462	3	
	Level II	Number			15			3
	Level III	Number			1			
Ownership	Water District	Number						
	MEO/CEO	Number			13			
	RWSA	Number			2			
	BWSA	Number			1			
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	10	7	37	202	3	3
	Private (Domestic)	Number	5	5		260		
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number						
	Average Capacity >= 240 m^3/day	Number	15	12	53	462	3	3
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)					Page: 14 of 22		
Content: **Water Source - General Information**					Date:		
Data Collection Level: **Provincial**		Province No.:0837			Filename: Water Source.xls		
Region Number: VIII		Province Name: Leyte			Form Number: P.4.1		
	Name of Municipalities	Character	Mahaplag			Matag-ob		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	32	12	12	35	2	44
Imple-mentor	Government Agency	Number	20	10	12	35	2	44
	Private	Number	12	2				
Level	Level I	Number	32	11	11	35	2	28
	Level II	Number		1	1			16
	Level III	Number						
Ownership	Water District	Number						
	MEO/CEO	Number		1	1			16
	RWSA	Number						
	BWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	20	9	11	35	2	28
	Private (Domestic)	Number	12	2				
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number						
	Average Capacity >= 240 m^3/day	Number	32	12	12	35	2	44
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)					Page: 15 of 22		
Content: **Water Source - General Information**					Date:		
Data Collection Level: **Provincial**		Province No.:0837			Filename: Water Source xls		
Region Number: VIII		Province Name: Leyte			Form Number: P.4.1		
	Name of Municipalities	Character	Matalom			Mayorga		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	130	52	41	95	102	
Imple-mentor	Government Agency	Number	54	27	41	95	15	
	Private	Number	76	25			87	
Level	Level I	Number	130	52	35	95	102	
	Level II	Number			5			
	Level III	Number			1			
Ownership	Water District	Number			1			
	MEO/CEO	Number			1			
	RWSA	Number						
	BWSA	Number			3			
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	54	27	36	95	15	
	Private (Domestic)	Number	76	25			87	
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number			3			
	Average Capacity >= 240 m^3/day	Number	130	52	38	95	102	
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)								Page: 16 of 22
Content: **Water Source - General Information**						Date:		
Data Collection Level: **Provincial**		Province No.:0837				Filename: Water Source.xls		
Region Number:VIII		Province Name: Leyte				Form Number: P.4.1		
	Name of Municipalities	Character	Merida			Palo		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	45	30	103	6	42	14
Implementor	Government Agency	Number	45	30	103	3	38	14
	Private	Number				3	4	
Level	Level I	Number	45	30	103	6	42	14
	Level II	Number						
	Level III	Number						
Ownership	Water District	Number						
	MEO/CEO	Number						
	RWSA	Number						
	BWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	45	30	103	3	38	14
	Private (Domestic)	Number				3	4	
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number						
	Average Capacity >= 240 m^3/day	Number	45	30	103	6	42	14
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)							Page: 17 of 22	
Content: **Water Source - General Information**						Date:		
Data Collection Level: **Provincial**		Province No.:0837				Filename: Water Source.xls		
Region Number:VIII		Province Name: Leyte				Form Number: P.4.1		
	Name of Municipalities	Character	Palompon			Pastrana		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	431	17	36	23	2	
Imple-mentor	Government Agency	Number	81	7	36	23	2	
	Private	Number	350	10				
Level	Level I	Number	431	16	32	23	2	
	Level II	Number			3			
	Level III	Number		1	1			
Ownership	Water District	Number		1	1			
	MEO/CEO	Number			3			
	RWSA	Number						
	BWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	81	6	32	23	2	
	Private (Domestic)	Number	350	10				
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number		2	2			
	Average Capacity >= 240 m^3/day	Number	431	15	34	23	2	
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)					Page:18 of 22		
Content: Water Source - General Information					Date:		
Data Collection Level: Provincial		Province No.:0837			Filename: Water Source.xls		
Region Number:VIII		Province Name: Leyte			Form Number: P.4.1		
	Name of Municipalities	Character	San Isidro			San Miguel		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	89	1		68	14	2
Implementor	Government Agency	Number	89	1		47	14	2
	Private	Number				21		
Level	Level I	Number	89			68	14	2
	Level II	Number		1				
	Level III	Number						
Ownership	Water District	Number						
	MEO/CEO	Number		1				
	RWSA	Number						
	BWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	89			47	14	2
	Private (Domestic)	Number				21		
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number						
	Average Capacity >= 240 m^3/day	Number	89	1		68	14	2
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)								Page: 19 of 22
Content: Water Source - General Information						Date:		
Data Collection Level: Provincial		Province No.:0837				Filename: Water Source.xls		
Region Number:VIII		Province Name: Leyte				Form Number: P.4.1		
	Name of Municipalities	Character	Santa Fe			Tabango		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	58	1	2	81	3	35
Implementor	Government Agency	Number	44	1	2	45	3	35
	Private	Number	14			36		
Level	Level I	Number	58	1	1	81	3	35
	Level II	Number			1			
	Level III	Number						
Ownership	Water District	Number						
	MEO/CEO	Number			1			
	RWSA	Number						
	BWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	44	1	1	45	3	35
	Private (Domestic)	Number	14			36		
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number						
	Average Capacity >= 240 m^3/day	Number	58	1	2	81	3	35
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)					Page: 20of 22		
Content: Water Source - General Information					Date:		
Data Collection Level: Provincial		Province No.:0837			Filename: Water Source.xls		
Region Number:VIII		Province Name: Leyte			Form Number: P.4.1		
	Name of Municipalities	Character	Tabontabon			Tacloban City (Capital)		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	138			1,829		
Implementor	Government Agency	Number	50			1,524		
	Private	Number	88			305		
Level	Level I	Number	138			1,829		
	Level II	Number						
	Level III	Number						
Ownership	Water District	Number						
	MEO/CEO	Number						
	RWSA	Number						
	BWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	50			1,524		
	Private (Domestic)	Number	88			305		
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number						
	Average Capacity >= 240 m^3/day	Number	138			1,829		
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)					Page: 21 of 22			
Content: **Water Source - General Information**					Date:			
Data Collection Level: **Provincial**		Province No.:0837			Filename: Water Source xls			
Region Number: VIII		Province Name: Leyte			Form Number: P.4.1			
	Name of Municipalities	Character	Tanauan			Tolosa		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	339	1	34	864		
Implementor	Government Agency	Number	63	1	34	150		
	Private	Number	276			714		
Level	Level I	Number	339		33	864		
	Level II	Number		1	1			
	Level III	Number						
Ownership	Water District	Number						
	MEO/CEO	Number						
	RWSA	Number						
	BWSA	Number		1	1			
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	63		34	150		
	Private (Domestic)	Number	276			714		
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smelt	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number						
	Average Capacity >= 240 m^3/day	Number	339	1	34	864		
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.1 Water Sources Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)								Page: 22 of 22
Content: **Water Source - General Information**						Date:		
Data Collection Level: **Provincial**		Province No.:0837				Filename: Water Source.xls		
Region Number: VIII		Province Name: Leyte				Form Number: P.4.1		
	Name of Municipalities	Character	Tunga			Villaba		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	30	4		85	6	15
Implementor	Government Agency	Number	12	4		61	6	15
	Private	Number	18			24		
Level	Level I	Number	30	4		85	6	
	Level II	Number						12
	Level III	Number						3
Ownership	Water District	Number						
	MEO/CEO	Number						
	RWSA	Number						
	BWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	12	4		61	6	15
	Private (Domestic)	Number	18			24		
Abstraction	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number						
	Bucket & Rope	Number						
	Free Flowing	Number						
Usage	Drinking	Number						
	Washing/Bathing	Number						
	Gardening/Irrigation	Number						
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
	Treated	Number						
Production	Seasonal Production	Number						
	Average Capacity < 240 m^3/day	Number						
	Average Capacity >= 240 m^3/day	Number	30	4		85	6	15
	Number of Household < 5	Number						
	Number of Household >= 5	Number						

Table 7.1.2 Major References

Report/Information	Agency/Author	Contents	Reference Data/Description	Output
1. Topographic Map (1:250,000)	NAMRIA	political boundary, topographic contour, river, road, etc.	major river basins & road	Location Map (Base Map of the Province)
2. Rapid Assessment of Water Supply Sources	NWRB	groundwater availability, well inventory	well depth, static water level, specific capacity, etc.	Groundwater Availability Map
3. Individual Well Information Database	NWRB	location & well inventory	location with well depths & water levels	Individual Well Location Map
4. Groundwater Resources Investigation	NWRB	groundwater potential	high yielding and water quality problem areas	Groundwater Availability Map
5. Geological Map of the Philippines	BMGS	lithologic distribution and structures	aquifers distribution	Groundwater Availability Map
6. Philippine Water Resources Summary Data	NWRB	location map & runoff records	runoff record & statistical data	River Flow Duration Curve & Probability of Surface Water
7. Road Network Map of the Province	PPDC	major road & municipality boundaries	municipal boundaries	Distribution Map of Urban & Rural Areas
8. Feasibility Study Reports of the Water Districts	LWUA	well field information	groundwater potential & quality	Groundwater Availability Map
9. Water Quality Analysis Result	Water Districts	water quality results	water sources quality	Groundwater Availability Map & Groundwater Quality
10. Water Quality Analysis Result	PHO, PSPT	water quality results	water sources quality	Groundwater Availability Map & Water Sources Quality
11. Assessment of the Mineral Production	DENR	location, activity of the mining sites	location & activity of the mining sites	River Network Map
12. General Information of Groundwater	DEO, PSPT	groundwater availability	low yielding and water quality problem area	Groundwater Availability Map
13. Well Inventory	DEO, PSPT	location and well information	well depth, static water level, specific capacity, etc.	Existing Well Inventory
14. Spring Inventory	DEO, PSPT	location and spring information	discharge, distance & elevation	Water Sources Information
15. Pumping Test Data	DEO	pumping test results	well capacity	Groundwater Availability Map

7.3 Groundwater Sources

7.3.1 Classification of Groundwater Availability

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Abuyog	Alangilan	Level-I	SW	12.0	3.0	0.2
	Bagacay	Level-I	SW	11.0	3.0	0.2
	Bahay	Level-I	SW	12.0	3.0	0.2
	Balinsasayao	Level-I	SW	11.0	3.0	0.2
	Balocawe	Level-I	SW	12.0	6.0	0.2
	Balocawehay	Level-I	SW	12.0	6.0	0.2
	Barayong	Level-I	SW	12.0	6.0	0.2
	Bayabas	Level-I	SW	11.0	3.0	0.2
	Bito (Pob.)	Level-I	SW	10.0	6.0	0.2
	Buaya	Level-I	SW	11.0	3.0	0.2
	Buenavista	Level-I	SW	12.0	3.0	0.2
	Bulak	Level-I	SW	12.0	3.0	0.2
	Bunga	Level-I	SW	11.0	6.0	0.2
	Buntay (Pob.)	Level-I	SW	12.0	6.0	0.2
	Burubud-an	Level-I	SW	12.0	3.0	0.2
	Cadac-an	Level-I	SW	12.0	6.0	0.2
	Cagbolo	Level-I	SW	12.0	3.0	0.2
	Can-aporong	Level-I	SW	13.0	6.0	0.2
	Canmarating	Level-I	SW	12.0	6.0	0.2
	Can-uguib (Pob.)	Level-I	SW	10.0	6.0	0.2
	Capilian	Level-I	SW	12.0	6.0	0.2
	Combis	Level-I	SW	12.0	3.0	0.2
	Dingle	Level-I	SW	11.0	3.0	0.2
	Guintagbucan (Pob.)	Level-I	SW	10.0	6.0	0.2
	Hampipila	Level-I	SW	12.0	3.0	0.2
	Katipunan	Level-I	SW	12.0	3.0	0.2
	Kikilo	Level-I	SW	11.0	3.0	0.2
	Laray	Level-I	SW	12.0	3.0	0.2
	Lawa-an	Level-I	SW	11.0	3.0	0.2
	Libertad	Level-I	SW	11.0	3.0	0.2
	Loyonsawang (Pob.)	Level-I	SW	12.0	6.0	0.2
	Mag-atubang	Level-I	SW	12.0	3.0	0.2
	Mahagna (New Cagbolo)	Level-I	SW	12.0	3.0	0.2
	Mahayahay	Level-I	SW	11.0	3.0	0.2
	Maitum	Level-I	SW	12.0	3.0	0.2
	Malaguicay	Level-I	SW	11.0	3.0	0.2
	Matagnao	Level-I	SW	12.0	3.0	0.2
	Nalibunan (Pob.)	Level-I	SW	11.0	6.0	0.2
	Nebga	Level-I	SW	12.0	3.0	0.2
	New Taligue	Level-I	SW	11.0	3.0	0.2
	Odiongan	Level-I	SW	12.0	3.0	0.2
	Old Taligue	Level-I	SW	11.0	3.0	0.2
	Pagsang-an	Level-I	SW	13.0	3.0	0.2
	Paguite	Level-I	SW	13.0	3.0	0.2
	Parasanon	Level-I	SW	12.0	3.0	0.2
	Picas Sur	Level-I	SW	14.0	6.0	0.2
	Pilar	Level-I	SW	12.0	3.0	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Abuyog	Pinamanagan	Level-I	SW	12.0	3.0	0.2
	Salvacion	Level-I	SW	13.0	6.0	0.2
	San Francisco	Level-I	SW	12.0	3.0	0.2
	San Isidro	Level-I	SW	12.0	6.0	0.2
	San Roque	Level-I	SW	12.0	3.0	0.2
	Santa Fe (Pob.)	Level-I	SW	16.0	6.0	0.2
	Santa Lucia (Pob.)	Level-I	SW	12.0	3.0	0.2
	Santo Nino (Pob.)	Level-I	SW	12.0	6.0	0.2
	Tabigue	Level-I	SW	13.0	3.0	0.2
	Tadoc	Level-I	SW	12.0	3.0	0.2
	Tib-o	Level-I	SW	11.0	3.0	0.2
	Tinalian	Level-I	SW	12.0	3.0	0.2
	Tinocolan	Level-I	SW	11.0	3.0	0.2
	Tuy-a	Level-I	SW	11.0	3.0	0.2
	Victory (Pob.)	Level-I	SW	12.0	6.0	0.2
Alangalang	Aslum	Level-I	DW	80.0	30.0	0.2
	Aslum	Level-I	DW	20.0	6.0	0.2
	Astorga (Burabod)	Level-I	DW	40.0	3.0	0.2
	Astorga (Burabod)	Level-I	SW	8.0	6.0	0.2
	Bato	Level-I	DW	35.0	3.0	0.2
	Bato	Level-I	SW	18.0	6.0	0.2
	Binongto-an	Level-I	DW	70.0	25.0	0.2
	Binongto-an	Level-I	SW	18.0	3.0	0.2
	Binotong	Level-I	SW	18.0	6.0	0.2
	Blumentritt (Pob.)	Level-I	DW	20.0	3.0	0.2
	Bobonon	Level-I	DW	70.0	25.0	0.2
	Bobonon	Level-I	SW	18.0	3.0	0.2
	Borseth	Level-I	DW	67.0	25.0	0.2
	Borseth	Level-I	DW	20.0	3.0	0.2
	Buenavista	Level-I	DW	70.0	25.0	0.2
	Buenavista	Level-I	SW	18.0	3.0	0.2
	Bugho	Level-I	DW	65.0	25.0	0.2
	Bugho	Level-I	DW	65.0	25.0	0.2
	Buri	Level-I	SW	17.0	3.0	0.2
	Cabadsan	Level-I	DW	70.0	25.0	0.2
	Cabadsan	Level-I	SW	18.0	3.0	0.2
	Calaasan	Level-I	DW	20.0	3.0	0.2
	Cambahanon	Level-I	DW	20.0	3.0	0.2
	Cambolao	Level-I	DW	70.0	25.0	0.2
	Cambolao	Level-I	SW	18.0	3.0	0.2
	Canvertudes	Level-I	DW	65.0	25.0	0.2
	Canvertudes	Level-I	DW	20.0	3.0	0.2
	Capiz	Level-I	SW	18.0	3.0	0.2
	Cavite	Level-I	DW	65.0	25.0	0.2
	Cavite	Level-I	SW	18.0	3.0	0.2
	Cogon	Level-I	DW	100.0	30.0	0.2
	Cogon	Level-I	DW	20.0	3.0	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Alangalang	Dapdap	Level-I	DW	65.0	25.0	0.2
	Dapdap	Level-I	DW	20.0	6.0	0.2
	Divisoria	Level-I	DW	65.0	25.0	0.2
	Divisoria	Level-I	DW	20.0	3.0	0.2
	Ekiran	Level-I	DW	20.0	3.0	0.2
	Hinapolan	Level-I	DW	20.0	3.0	0.2
	Holy Child I (Pob.)	Level-I	DW	20.0	3.0	0.2
	Holy Child II (Pob.)	Level-I	DW	25.0	3.0	0.2
	Hubang	Level-I	DW	20.0	3.0	0.2
	Hupit	Level-I	DW	20.0	3.0	0.2
	Langit	Level-I	DW	20.0	3.0	0.2
	Lingayon	Level-I	DW	60.0	20.0	0.2
	Lingayon	Level-I	DW	20.0	3.0	0.2
	Lourdes	Level-I	DW	65.0	25.0	0.2
	Lourdes	Level-I	SW	18.0	3.0	0.2
	Lukay	Level-I	DW	60.0	20.0	0.2
	Lukay	Level-I	DW	20.0	3.0	0.2
	Magsaysay	Level-I	DW	20.0	3.0	0.2
	Milagrosa (Pob.)	Level-I	DW	65.0	25.0	0.2
	Milagrosa (Pob.)	Level-I	DW	20.0	3.0	0.2
	Mudboron	Level-I	DW	70.0	25.0	0.2
	Mudboron	Level-I	DW	20.0	3.0	0.2
	P. Barrantes	Level-I	DW	65.0	25.0	0.2
	P. Barrantes	Level-I	DW	20.0	3.0	0.2
	Penalosa	Level-I	DW	65.0	25.0	0.2
	Penalosa	Level-I	DW	20.0	3.0	0.2
	Pepita	Level-I	SW	18.0	6.0	0.2
	Salvacion	Level-I	SW	18.0	3.0	0.2
	Salvacion Poblacion	Level-I	SW	18.0	3.0	0.2
	San Antonio	Level-I	DW	20.0	3.0	0.2
	San Antonio Pob.	Level-I	SW	18.0	3.0	0.2
	San Diego	Level-I	SW	18.0	3.0	0.2
	San Francisco East	Level-I	DW	32.0	3.0	0.2
	San Francisco West	Level-I	DW	25.0	3.0	0.2
	San Isidro	Level-I	DW	70.0	25.0	0.2
	San Isidro	Level-I	DW	24.0	3.0	0.2
	San Pedro	Level-I	DW	20.0	3.0	0.2
	San Roque (Pob.)	Level-I	DW	75.0	25.0	0.2
	San Roque (Pob.)	Level-I	DW	20.0	3.0	0.2
	San Vicente	Level-I	DW	70.0	25.0	0.2
	San Vicente	Level-I	DW	20.0	3.0	0.2
	Santiago	Level-I	SW	18.0	3.0	0.2
	Santo Nino (Pob.)	Level-I	DW	20.0	3.0	0.2
	Santol	Level-I	DW	65.0	25.0	0.2
	Santol	Level-I	DW	24.0	3.0	0.2
	Tabangohay	Level-I	DW	30.0	3.0	0.2
	Tombo	Level-I	DW	65.0	25.0	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spc. Cap. (lpsm)
Alangalang	Tombo	Level-I	DW	20.0	6.0	0.2
	Veteranos	Level-I	DW	28.0	3.0	0.2
Albuera	Antipolo	Level-I	SW	12.0	3.0	0.2
	Antipolo	Level-I	SW	12.0	-	0.2
	Balugo	Level-I	SW	6.0	3.0	0.2
	Benolho	Level-I	SW	6.0	3.0	0.2
	Cambalading	Level-I	SW	6.0	3.0	0.2
	Damula-an	Level-I	SW	6.0	3.0	0.2
	Damula-an	Level-II	DW	24.0	2.5	-
	Mabayag	Level-I	SW	6.0	3.0	0.2
	Poblacion	Level-I	DW	24.0	-	0.2
	Poblacion	Level-I	SW	6.0	3.0	0.2
	Poblacion	Level-II	DW	32.0	0.0	-
	Salvacion	Level-I	SW	6.0	3.0	0.2
	San Pedro	Level-I	SW	6.0	3.0	0.2
	Seguinon	Level-I	SW	6.0	0.0	0.2
	Tabgas	Level-I	SW	6.0	3.0	0.2
	Talisayan	Level-I	SW	6.0	3.0	0.2
	Tinag-an	Level-I	SW	6.0	3.0	0.2
Babatngon	Bacong	Level-I	SW	6.0	6.0	0.2
	Bagong Silang	Level-I	SW	10.0	3.0	0.2
	Biasong	Level-I	SW	6.0	3.0	0.2
	Gov. E. Jaro (Bagahupi)	Level-I	DW	20.0	3.0	0.2
	Lukay	Level-I	SW	6.0	3.0	0.2
	Magcasuang	Level-I	DW	22.0	3.0	0.2
	Malibago	Level-II	DW	25.0	4.6	0.7
	Naga-asan	Level-II	SW	19.0	3.0	2.2
	Pagsulhugon	Level-I	SW	10.0	3.0	0.2
	Planza	Level-I	SW	6.0	6.0	0.2
	Poblacion District I	Level-I	SW	6.0	3.0	0.2
	Poblacion District II	Level-I	SW	6.0	3.0	0.2
	Poblacion District III	Level-I	SW	10.0	3.0	0.2
	Poblacion District IV	Level-I	SW	18.0	3.0	0.2
	Rizal I	Level-I	DW	20.0	3.0	0.2
	San Agustin	Level-I	DW	22.0	3.0	0.2
	San Isidro	Level-II	DW	25.0	4.6	0.7
	San Ricardo	Level-I	SW	10.0	3.0	0.2
	Sangputan	Level-I	DW	22.0	6.0	0.2
	Taguite	Level-I	SW	18.0	3.0	0.2
	Uban	Level-I	DW	22.0	3.0	0.2
	Villa Magsaysay	Level-I	SW	10.0	3.0	0.2
Barugo	Abango	Level-I	SW	18.0	3.0	0.2
	Amahit	Level-I	SW	18.0	3.0	0.2
	Balire	Level-I	SW	18.0	3.0	0.2
	Balud	Level-I	SW	3.0	3.0	0.2
	Bukid	Level-I	SW	18.0	3.0	0.2
	Bulod	Level-I	SW	3.0	3.0	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Borugo	Busay	Level-I	SW	4.0	3.0	0.2
	Cabarasan	Level-I	SW	3.0	3.0	0.2
	Cabolo-an	Level-I	DW	30.0	3.0	0.2
	Calingcaguing	Level-I	SW	18.0	3.0	0.2
	Can-isak	Level-I	SW	12.0	3.0	0.2
	Canomantag	Level-I	SW	3.0	3.0	0.2
	Cuta	Level-I	SW	3.0	3.0	0.2
	Domogdog	Level-I	SW	3.0	3.0	0.2
	Guindaohan	Level-I	SW	6.0	3.0	0.2
	Hiagsam	Level-I	SW	18.0	3.0	0.2
	Hitaba	Level-I	SW	6.0	3.0	0.2
	Hinugayan	Level-I	DW	21.0	3.0	0.2
	Ibag	Level-I	DW	30.0	3.0	0.2
	Minubang	Level-I	SW	3.0	3.0	0.2
	Minuswang	Level-I	SW	3.0	3.0	0.2
	Pikas	Level-I	SW	19.0	3.0	0.2
	Pitogo	Level-I	DW	20.0	3.0	0.2
	Poblacion Dist. I	Level-I	SW	3.0	3.0	0.2
	Poblacion Dist. II	Level-I	SW	4.0	3.0	0.2
	Poblacion Dist. III	Level-I	SW	4.0	3.0	0.2
	Poblacion Dist. III	Level-II	DW	61.0	30.0	4.2
	Poblacion Dist. IV	Level-I	SW	3.0	3.0	0.2
	Poblacion Dist. VI	Level-I	SW	6.0	3.0	0.2
	Roosevelt	Level-I	SW	18.0	3.0	0.2
	San Isidro	Level-I	SW	6.0	3.0	0.2
	San Roque	Level-I	SW	18.0	3.0	0.2
	Santa Rosa	Level-I	SW	18.0	3.0	0.2
	Santarin	Level-I	SW	3.0		0.2
Bato	Alegria	Level-I	DW	48.0	3.0	0.2
	Alegria	Level-I	SW	18.0	6.0	0.2
	Alejos	Level-I	DW	36.0	3.0	0.2
	Alejos	Level-I	SW	18.0	6.0	0.2
	Amagos	Level-I	DW	42.0	3.0	0.2
	Amagos	Level-I	SW	18.0	6.0	0.2
	Anahawan	Level-I	DW	42.0	3.0	0.2
	Anahawan	Level-I	DW	20.0	3.0	0.2
	Bago	Level-I	DW	36.0	3.0	0.2
	Bago	Level-I	DW	20.0	6.0	0.2
	Bagong Bayan District (Pob	Level-I	DW	36.0	3.0	0.2
	Bagong Bayan District (Pob	Level-I	SW	12.0	3.0	0.2
	Bagong Bayan District (Pob	Level-III	DW	48.0	9.0	10.0
	Buli	Level-I	DW	42.0	3.0	0.2
	Buli	Level-I	SW	18.0	6.0	0.2
	Cebuana	Level-I	DW	36.0	6.0	0.2
	Cebuana	Level-I	SW	15.0	6.0	0.2
	Daan Lungsod	Level-I	DW	36.0	3.0	0.2
	Daan Lungsod	Level-I	SW	12.0	3.0	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Bato	Dolho	Level-I	DW	36.0	3.0	0.2
	Dolho	Level-I	SW	12.0	3.0	0.2
	Dolho	Level-II	DW	36.0	0.0 -	
	Domagocdoc	Level-I	DW	42.0	3.0	0.2
	Domagocdoc	Level-I	SW	18.0	6.0	0.2
	Guerrero District (Pob.)	Level-I	DW	36.0	3.0	0.2
	Guerrero District (Pob.)	Level-I	SW	12.0	3.0	0.2
	Iniguihan District (Pob.)	Level-I	DW	42.0	3.0	0.2
	Iniguihan District (Pob.)	Level-I	SW	12.0	3.0	0.2
	Iniguihan District (Pob.)	Level-II	DW	36.0	0.0 -	
	Kalanggaman District (Pob.)	Level-I	DW	42.0	3.0	0.2
	Kalanggaman District (Pob.)	Level-I	SW	12.0	3.0	0.2
	Liberty (Binaliw)	Level-I	DW	24.0	3.0	0.2
	Liberty (Binaliw)	Level-I	SW	18.0	6.0	0.2
	Mabini	Level-I	DW	24.0	3.0	0.2
	Mabini	Level-I	SW	18.0	3.0	0.2
	Marcelo	Level-I	DW	42.0	3.0	0.2
	Marcelo	Level-I	SW	18.0	3.0	0.2
	Naga	Level-I	DW	24.0	3.0	0.2
	Naga	Level-I	SW	18.0	3.0	0.2
	Osmeña	Level-I	DW	36.0	3.0	0.2
	Osmeña	Level-I	DW	20.0	6.0	0.2
	Ponong	Level-I	DW	42.0	3.0	0.2
	Ponong	Level-I	SW	18.0	3.0	0.2
	Rivilla	Level-I	DW	42.0	6.0	0.2
	San Agustin	Level-I	DW	42.0	3.0	0.2
	San Agustin	Level-I	SW	18.0	6.0	0.2
	Santo Nino	Level-I	DW	42.0	3.0	0.2
	Santo Nino	Level-I	SW	18.0	3.0	0.2
	Tabunok	Level-I	DW	36.0	3.0	0.2
	Tabunok	Level-I	SW	18.0	3.0	0.2
	Tagaytay	Level-I	DW	36.0	3.0	0.2
	Tagaytay	Level-I	SW	18.0	6.0	0.2
	Tinago District (Pob.)	Level-I	DW	36.0	3.0	0.2
	Tinago District (Pob.)	Level-I	SW	18.0	3.0	0.2
	Tugas	Level-I	DW	42.0	3.0	0.2
	Tugas	Level-I	SW	18.0	3.0	0.2
Calubian	Abanilla	Level-I	SW	6.0	3.0	0.2
	Agas	Level-I	SW	6.0	3.0	0.2
	Anislagan	Level-I	SW	5.0	3.0	0.2
	Bunacan	Level-I	SW	15.0	6.0	0.2
	Bunacan	Level-I	SW	6.0	3.0	0.2
	Cabalhin	Level-I	SW	6.0	3.0	0.2
	Cabalquinto	Level-I	SW	6.0	3.0	0.2
	Cabradilla	Level-I	SW	5.0	3.0	0.2
	Caneja	Level-I	SW	6.0	3.0	0.2
	Cantonghao	Level-I	SW	15.0	6.0	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Calubian	Caroyocan	Level-I	SW	15.0	6.0	0.2
	Caroyocan	Level-I	SW	6.0	3.0	0.2
	Casiongan	Level-I	SW	6.0	3.0	0.2
	Cristina	Level-I	SW	6.0	3.0	0.2
	Dalumpines	Level-I	SW	6.0	3.0	0.2
	Don Luis	Level-I	SW	6.0	3.0	0.2
	Dulao	Level-I	SW	6.0	3.0	0.2
	Efe	Level-I	SW	15.0	3.0	0.2
	Efe	Level-I	SW	6.0	3.0	0.2
	Enage	Level-I	SW	6.0	3.0	0.2
	Espinosa	Level-I	SW	6.0	3.0	0.2
	Ferdinand E. Marcos	Level-I	SW	15.0	3.0	0.2
	Ferdinand E. Marcos	Level-I	SW	6.0	3.0	0.2
	Garganera	Level-I	SW	6.0	3.0	0.2
	Guadalupe (Guadalupe Men	Level-I	SW	6.0	3.0	0.2
	Gutosan	Level-I	SW	15.0	3.0	0.2
	Igang	Level-I	SW	15.0	6.0	0.2
	Igang	Level-I	SW	6.0	3.0	0.2
	Inalad	Level-I	SW	6.0	3.0	0.2
	Jubay	Level-I	SW	15.0	6.0	0.2
	Jubay	Level-I	SW	6.0	3.0	0.2
	Juson	Level-I	SW	6.0	3.0	0.2
	Kawayan Bogtong	Level-I	SW	6.0	3.0	0.2
	Kawayanan	Level-I	SW	15.0	6.0	0.2
	Kokoy Romualdez	Level-I	SW	6.0	3.0	0.2
	Labtic	Level-I	SW	6.0	3.0	0.2
	Laray	Level-I	SW	6.0	3.0	0.2
	M. Veloso	Level-I	SW	6.0	3.0	0.2
	Mahait	Level-I	SW	15.0	6.0	0.2
	Mahait	Level-I	SW	6.0	3.0	0.2
	Malobago	Level-I	SW	6.0	3.0	0.2
	Matagok	Level-I	SW	15.0	3.0	0.2
	Matagok	Level-I	SW	6.0	3.0	0.2
	Nipa	Level-I	SW	15.0	3.0	0.2
	Nipa	Level-I	SW	6.0	3.0	0.2
	Obispo	Level-I	SW	6.0	3.0	0.2
	Padoga	Level-I	SW	6.0	3.0	0.2
	Pangpang	Level-I	SW	6.0	3.0	0.2
	Patag	Level-I	SW	6.0	3.0	0.2
	Paula	Level-I	SW	6.0	3.0	0.2
	Petrolio	Level-I	SW	6.0	3.0	0.2
	Poblacion	Level-I	SW	6.0	3.0	0.2
	Railes	Level-I	SW	6.0	3.0	0.2
	Tagharigue	Level-I	SW	15.0	6.0	0.2
	Tagharigue	Level-I	SW	6.0	3.0	0.2
	Tuburan	Level-I	SW	6.0	3.0	0.2
	Villahermosa	Level-I	SW	15.0	3.0	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Calubian	Villahermosa	Level-I	SW	6.0	3.0	0.2
	Villalon	Level-I	SW	15.0	3.0	0.2
	Villalon	Level-I	SW	6.0	3.0	0.2
	Villanueva	Level-I	SW	6.0	3.0	0.2
Capoocan	Culasian	Level-I	SW	1.0	1.0	0.2
	Nauguisan	Level-I	SW	15.0	3.0	0.2
Carigara	Bislig	Level-II	DW	80.0	30.0	0.1
	Parag-um	Level-I	DW	40.0	3.0	0.2
	West Visoria	Level-I	DW	40.0	3.0	0.2
Dagami	Banayon	Level-I	SW	15.0	3.0	0.2
	Bayabas	Level-I	SW	12.0	3.0	0.2
	Bolirao	Level-I	SW	13.0	3.0	0.2
	Cabuloran	Level-I	SW	14.0	3.0	0.2
	Calutan	Level-I	DW	20.0	3.0	0.2
	Guinarona	Level-I	SW	15.0	3.0	0.2
	Patoc	Level-I	DW	25.0	3.0	0.2
	Sampaguita	Level-I	SW	18.0	3.0	0.2
	Tagkip	Level-I	DW	20.0	3.0	0.2
Dulag	Arado	Level-I	SW	5.0	-	0.2
	Barbo (Pob.)	Level-I	SW	5.0	-	0.2
	Batug	Level-I	DW	60.0	0.0	0.2
	Batug	Level-I	SW	12.0	-	0.2
	Bolongtohan	Level-I	SW	5.0	-	0.2
	Bulod	Level-I	SW	5.0	-	0.2
	Buntay (Pob.)	Level-I	SW	5.0	-	0.2
	Cabacungan	Level-I	SW	6.0	-	0.2
	Cabarasan	Level-I	SW	5.0	-	0.2
	Cabato-an	Level-I	SW	5.0	-	0.2
	Calipayan	Level-I	SW	5.0	-	0.2
	Calubian	Level-I	SW	5.0	-	0.2
	Cambula District (Pob.)	Level-I	SW	5.0	-	0.2
	Camitoc	Level-I	SW	5.0	-	0.2
	Camote	Level-I	SW	5.0	-	0.2
	Candao (Pob.)	Level-I	SW	5.0	-	0.2
	Catmonan (Pob.)	Level-I	SW	5.0	-	0.2
	Combis (Pob.)	Level-I	SW	5.0	-	0.2
	Dacay	Level-I	SW	5.0	-	0.2
	Del Carmen	Level-I	SW	10.0	-	0.2
	Del Pilar	Level-I	SW	5.0	-	0.2
	Fatima	Level-I	SW	5.0	-	0.2
	General Roxas	Level-I	SW	5.0	-	0.2
	Highway (Pob.)	Level-I	SW	3.0	-	0.2
	Luan	Level-I	SW	5.0	-	0.2
	Magsaysay	Level-I	SW	5.0	-	0.2
	Maricum	Level-I	DW	48.3	0.0	0.2
	Maricum	Level-I	SW	5.0	-	0.2
	Market Site (Pob.)	Level-I	SW	5.0	-	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spc. Cap. (lpsm)
Dulag	Rawis	Level-I	SW	5.0	-	0.2
	Rizal	Level-I	SW	5.0	-	0.2
	Romualdez	Level-I	SW	5.0	-	0.2
	Sabang Daguitan	Level-I	SW	5.0	-	0.2
	Salvacion	Level-I	SW	5.0	-	0.2
	San Agustin	Level-I	SW	5.0	-	0.2
	San Antonio	Level-I	SW	5.0	-	0.2
	San Isidro	Level-I	SW	5.0	-	0.2
	San Jose	Level-I	SW	5.0	-	0.2
	San Miguel (Pob.)	Level-I	SW	5.0	-	0.2
	San Rafael	Level-I	SW	5.0	-	0.2
	San Vicente	Level-I	SW	5.0	-	0.2
	Serrano (Pob.)	Level-I	SW	5.0	-	0.2
	Sungi (Pob.)	Level-I	SW	5.0	-	0.2
	Tabu	Level-I	SW	5.0	-	0.2
	Tigbao	Level-I	SW	5.0	-	0.2
	Victory	Level-I	SW	5.0	-	0.2
Hilongos	Agutayan	Level-I	DW	35.0	3.0	0.2
	Agutayan	Level-I	SW	14.0	6.0	0.2
	Atabay	Level-I	SW	7.0	3.0	0.2
	Baas	Level-I	DW	30.0	3.0	0.2
	Baas	Level-I	SW	7.0	3.0	0.2
	Bagong Lipunan	Level-I	DW	30.0	3.0	0.2
	Bagong Lipunan	Level-I	SW	7.0	6.0	0.2
	Bagumbayan	Level-I	SW	7.0	6.0	0.2
	Bantigue	Level-I	SW	7.0	3.0	0.2
	Bon-ot	Level-I	DW	20.0	6.0	0.2
	Bung-aw	Level-I	SW	14.0	6.0	0.2
	Campina	Level-I	SW	7.0	3.0	0.2
	Catandog 1	Level-II	DW	30.0	7.0	7.5
	Catandog 2	Level-II	DW	35.0	10.0	1.7
	Central Barangay (Pob.)	Level-I	DW	35.0	3.0	0.2
	Central Barangay (Pob.)	Level-I	SW	14.0	3.0	0.2
	Eastern Barangay (Pob.)	Level-I	DW	35.0	3.0	0.2
	Eastern Barangay (Pob.)	Level-I	SW	14.0	3.0	0.2
	Himo-aw	Level-I	DW	35.0	3.0	0.2
	Himo-aw	Level-I	SW	7.0	3.0	0.2
	Imelda Marcos (Pong-on)	Level-I	SW	14.0	6.0	0.2
	Kangha-as	Level-I	SW	14.0	6.0	0.2
	Kang-iras	Level-I	SW	14.0	6.0	0.2
	Lamak	Level-I	DW	35.0	3.0	0.2
	Lamak	Level-I	SW	16.0	6.0	0.2
	Liberty	Level-I	SW	14.0	6.0	0.2
	Lunang	Level-I	DW	40.0	3.0	0.2
	Lunang	Level-I	SW	18.0	6.0	0.2
	Magnangoy	Level-I	DW	30.0	3.0	0.2
	Magnangoy	Level-I	SW	14.0	3.0	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Hilongos	Manaul	Level-I	SW	16.0	6.0	0.2
	Matapay	Level-I	DW	35.0	3.0	0.2
	Matapay	Level-I	SW	7.0	3.0	0.2
	Naval	Level-I	DW	40.0	5.0	1.7
	Naval	Level-I	DW	35.0	3.0	0.2
	Owak	Level-I	SW	7.0	3.0	0.2
	Pa-a	Level-I	SW	14.0	3.0	0.2
	Proteccion	Level-I	SW	14.0	6.0	0.2
	San Agustin	Level-I	SW	18.0	6.0	0.2
	San Isidro	Level-I	DW	35.0	6.0	0.2
	San Juan	Level-I	SW	14.0	3.0	0.2
	San Roque	Level-I	DW	35.0	3.0	0.2
	San Roque	Level-I	SW	7.0	3.0	0.2
	Santa Cruz	Level-I	SW	18.0	3.0	0.2
	Santa Margarita	Level-I	SW	14.0	3.0	0.2
	Santa Margarita	Level-I	SW	10.0	3.0	0.2
	Tabunok	Level-I	DW	35.0	3.0	0.2
	Tabunok	Level-I	SW	14.0	3.0	0.2
	Tagnate	Level-I	DW	40.0	6.0	0.2
	Tagnate	Level-II	DW	40.0	22.9	0.7
	Talisay	Level-I	DW	40.0	3.0	0.2
	Talisay	Level-I	SW	14.0	3.0	0.2
	Tambis	Level-I	SW	7.0	3.0	0.2
	Tejero	Level-I	DW	35.0	3.0	0.2
	Tuguipa	Level-I	DW	20.0	6.0	0.2
	Utanan	Level-I	DW	40.0	3.0	0.2
	Western Barangay (Pob.)	Level-I	SW	14.0	3.0	0.2
	Western Barangay (Pob.)	Level-I	SW	14.0	3.0	0.2
Hindang	Anahaw	Level-I	SW	18.0	3.0	0.2
	Anahaw	Level-I	SW	6.0	3.0	0.2
	Anolon	Level-I	SW	6.0	3.0	0.2
	Bontoc	Level-I	DW	24.0	3.0	0.2
	Bontoc	Level-I	SW	6.0	3.0	0.2
	Doos Del Norte	Level-I	DW	24.0	3.0	0.2
	Doos Del Norte	Level-I	SW	6.0	3.0	0.2
	Doos Del Sur	Level-I	SW	6.0	3.0	0.2
	Doos Del Sur	Level-II	DW	24.0	20.0	1.7
	Katipunan	Level-I	DW	24.0	3.0	0.2
	Katipunan	Level-I	SW	6.0	3.0	0.2
	Maasin	Level-I	SW	6.0	3.0	0.2
	Maasin	Level-I	SW	6.0	3.0	0.2
	Maasin	Level-II	DW	24.0	18.0	1.7
	Mabagon	Level-I	DW	24.0	3.0	0.2
	Mabagon	Level-I	SW	12.0	3.0	0.2
	Poblacion 1	Level-I	DW	30.0	0.0	0.2
	Poblacion 2	Level-I	DW	30.0	0.0	0.2
	San Vicente	Level-I	DW	24.0	3.0	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Hindang	San Vicente	Level-I	SW	6.0	3.0	0.2
	San Vicente	Level-II	DW	24.0	18.0	1.7
	Tabok	Level-I	DW	30.0	0.0	0.2
	Tabok	Level-II	DW	24.0	22.0	1.7
	Tagbibi	Level-I	DW	24.0	3.0	0.2
	Tagbibi	Level-I	SW	6.0	3.0	0.2
	Tagbibi	Level-II	DW	24.0	18.0	1.7
Inopacan	Conalum	Level-I	SW	7.0	6.0	0.2
	Conalum	Level-I	SW	6.0	6.0	0.2
	Esperanza	Level-I	SW	8.0	6.0	0.2
	Esperanza	Level-I	SW	5.0	6.0	0.2
	Guinsanga-an	Level-I	SW	5.0	6.0	0.2
	Linao	Level-I	SW	5.5	6.0	0.2
	Poblacion	Level-I	SW	4.6	3.0	0.2
Isabel	Anislag	Level-I	DW	30.0	3.0	0.2
	Antipolo	Level-I	SW	15.0	3.0	0.2
	Apale	Level-I	SW	15.0	3.0	0.2
	Bantigue	Level-I	DW	30.0	3.0	0.2
	Benog	Level-I	DW	40.0	9.0	0.2
	Bilwang	Level-II	SW	15.0	6.0	-
	Can-andan	Level-I	SW	15.0	3.0	0.2
	Cangag	Level-II	DW	40.0	9.0	-
	Consolacion	Level-II	DW	40.0	9.0	-
	Honan	Level-II	DW	40.0	9.0	-
	Libertad	Level-II	SW	15.0	6.0	-
	Mahayag	Level-II	SW	15.0	6.0	-
	Marvel (Pob.)	Level-II	SW	15.0	6.0	-
	Matlang	Level-I	DW	30.0	3.0	0.2
	Monte Alegre	Level-II	SW	15.0	6.0	-
	Puting Bato	Level-I	SW	15.0	6.0	0.2
	San Francisco	Level-I	DW	30.0	0.0	0.2
	Santo Ni7o (Pob.)	Level-II	DW	40.0	7.2	-
	Tabunok	Level-I	DW	30.0	3.0	0.2
	Tolingon	Level-II	SW	15.0	3.0	-
	Tubod	Level-I	SW	15.0	3.0	0.2
Jaro	Alahag	Level-I	SW	6.0	3.0	0.2
	Anibongan	Level-II	SW	8.0	5.0	2.8
	Badiang	Level-II	SW	7.0	3.0	1.7
	Batug	Level-I	SW	8.0	3.0	0.2
	Bias Zabala	Level-II	SW	7.0	3.5	2.1
	Buenavista	Level-I	SW	6.0	3.0	0.2
	Bukid	Level-I	SW	9.0	3.0	0.2
	Burabod	Level-II	SW	10.0	6.0	2.6
	Buri	Level-I	SW	6.0	3.0	0.2
	Canapuan	Level-I	SW	7.0	3.0	0.2
	Canhandugan	Level-II	SW	10.0	6.0	2.3
	Daro	Level-II	SW	8.0	4.0	3.1

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Jaro	District I (Pob.)	Level-III	DW	32.5	16.5	10.5
	District II (Pob.)	Level-III	DW	32.5	16.5	10.5
	District III (Pob.)	Level-III	DW	32.5	16.5	10.5
	District IV (Pob.)	Level-III	DW	32.5	16.5	10.5
	Hiagsam	Level-I	SW	6.0	3.0	0.2
	Hibucawan	Level-I	SW	6.0	3.0	0.2
	Hibunawon	Level-II	SW	12.0	4.0	3.5
	Kaglawaan	Level-I	SW	6.0	3.0	0.2
	La Paz	Level-I	SW	8.0	3.0	0.2
	Macanip	Level-II	SW	8.0	3.0	2.8
	Macopa	Level-I	SW	12.0	3.0	0.2
	Mag-aso	Level-I	SW	15.0	3.0	0.2
	Malobago	Level-I	SW	9.0	3.0	0.2
	Olotan	Level-II	SW	7.0	3.0	1.6
	Palanog	Level-II	SW	8.0	5.0	2.3
	Pange	Level-I	SW	7.5	3.0	0.2
	Parasan	Level-I	SW	8.0	3.0	0.2
	Pitogo	Level-I	SW	8.0	3.0	0.2
	Sagkahan	Level-I	SW	8.0	3.0	0.2
	San Roque	Level-I	SW	8.0	3.0	0.2
	Santo Nino	Level-II	SW	10.0	6.0	2.6
	Tuba	Level-I	SW	12.0	3.0	0.2
	Villa Paz	Level-I	SW	15.0	3.0	0.2
Javier (Bugho)	Andres Bonifacio	Level-II	DW	30.0	11.0	1.9
	Batug	Level-I	SW	16.0	3.0	0.2
	Calzada	Level-I	DW	30.0	3.0	0.2
	Casalungan	Level-I	DW	40.0	3.0	0.2
	Casalungan	Level-I	SW	12.0	3.0	0.2
	Inayupan	Level-I	DW	36.0	3.0	0.2
	Manarug	Level-I	SW	12.0	6.0	0.2
	Manlilisid	Level-I	DW	45.0	3.0	0.2
	Manlilisid	Level-I	SW	16.0	3.0	0.2
	Naliwatan	Level-I	DW	30.0	3.0	0.2
	Naliwatan	Level-I	SW	12.0	3.0	0.2
	Odiong	Level-I	DW	36.0	3.0	0.2
	Picas Norte	Level-I	DW	30.0	6.0	0.2
	Picas Norte	Level-I	SW	16.0	3.0	0.2
	Pinocawan	Level-I	DW	40.0	3.0	0.2
	Poblacion Zone 1	Level-I	SW	18.0	3.0	0.2
	Poblacion Zone 2	Level-I	DW	30.0	3.0	0.2
	Poblacion Zone 2	Level-I	SW	18.0	3.0	0.2
	Poblacion Zone 3	Level-I	DW	36.0	3.0	0.2
	Poblacion Zone 3	Level-II	DW	30.0	10.0	1.6
	Rizal	Level-I	DW	30.0	3.0	0.2
	Rizal	Level-I	SW	12.0	3.0	0.2
	Santa Cruz	Level-I	DW	24.0	3.0	0.2
	Talisayan	Level-I	DW	30.0	3.0	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Javier (Bugho)	Talisayan	Level-II	DW	36.0	10.0	1.3
	Ulhay	Level-I	DW	40.0	3.0	0.2
Julita	Alegria	Level-I	SW	18.0	3.0	0.2
	Anibong	Level-I	SW	18.0	3.0	0.2
	Aslum	Level-I	SW	18.0	3.0	0.2
	Balante	Level-I	SW	18.0	3.0	0.2
	Bongdo	Level-I	SW	18.0	3.0	0.2
	Bonifacio	Level-I	SW	18.0	3.0	0.2
	Bugho	Level-I	DW	80.0	20.0	0.2
	Calbasag	Level-I	SW	17.0	3.0	0.2
	Caridad	Level-I	DW	90.0	20.0	0.2
	Cuya-e	Level-I	SW	15.0	3.0	0.2
	Dita	Level-I	SW	15.0	3.0	0.2
	Gitabla	Level-I	SW	18.0	3.0	0.2
	Hindang	Level-I	SW	16.0	3.0	0.2
	Inawangan	Level-I	SW	18.0	3.0	0.2
	Jurado	Level-I	DW	90.0	20.0	0.2
	Poblacion District I	Level-I	SW	18.0	3.0	0.2
	Poblacion District II	Level-I	SW	18.0	3.0	0.2
	Poblacion District III	Level-I	SW	14.0	3.0	0.2
	Poblacion District IV	Level-I	SW	15.0	3.0	0.2
	San Andres	Level-I	DW	90.0	20.0	0.2
	San Pablo	Level-I	SW	18.0	3.0	0.2
	Santa Cruz	Level-I	SW	18.0	3.0	0.2
	Santo Nino	Level-I	SW	18.0	3.0	0.2
	Tagkip	Level-I	DW	85.0	20.0	0.2
	Tolosahay	Level-I	DW	38.0	3.0	0.2
	Villa Hermosa	Level-I	SW	18.0	3.0	0.2
Kananga	Cacao	Level-I	SW	9.0	3.0	0.2
	Kawayan	Level-I	SW	9.0	3.0	0.2
	Libongao	Level-I	SW	11.5	3.0	0.2
	Libongao	Level-I	SW	9.0	3.0	0.2
	Lonoy	Level-I	SW	9.0	3.0	0.2
	Masarayao	Level-I	SW	9.0	3.0	0.2
	Monte Alegre	Level-II	DW	24.0	16.0	2.6
	Monte Bello	Level-I	SW	11.0	3.0	0.2
	Monte Bello	Level-II	DW	24.0	16.0	2.6
	Naghalin	Level-I	SW	9.0	3.0	0.2
	Natubgan	Level-I	DW	24.0	3.0	0.2
	Natubgan	Level-I	SW	9.0	3.0	0.2
	Poblacion	Level-I	SW	9.0	3.0	0.2
	Rizal	Level-I	SW	12.0	3.0	0.2
	San Isidro	Level-I	SW	12.0	3.0	0.2
	Santo Nino	Level-I	SW	12.0	3.0	0.2
	Santo Nino	Level-II	DW	24.0	16.0	1.7
	Tongonan	Level-I	SW	16.0	3.0	0.2
	Tugbong	Level-I	SW	12.0	3.0	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
La Paz	Bagacay East	Level-I	SW	6.0	3.0	0.2
	Bongtod	Level-I	SW	12.0	3.0	0.2
	Bongtod	Level-I	SW	6.0	3.0	0.2
	Buracan	Level-I	SW	12.0	3.0	0.2
	Buracan	Level-I	SW	6.0	3.0	0.2
	Caabangan	Level-II	SW	10.0	5.0	2.1
	Cacao	Level-I	SW	12.0	3.0	0.2
	Cacao	Level-I	SW	6.0	3.0	0.2
	Calabnian	Level-I	SW	12.0	3.0	0.2
	Calabnian	Level-I	SW	6.0	3.0	0.2
	Calaghusan	Level-II	SW	10.0	5.0	2.1
	Caltayan	Level-I	SW	12.0	6.0	0.2
	Caltayan	Level-I	SW	6.0	3.0	0.2
	Canbanez	Level-I	SW	12.0	3.0	0.2
	Canbanez	Level-I	SW	6.0	3.0	0.2
	Cogon	Level-II	SW	10.0	5.0	2.1
	Doyog	Level-I	SW	12.0	6.0	0.2
	Doyog	Level-I	SW	6.0	3.0	0.2
	Gimaranat East	Level-I	SW	12.0	6.0	0.2
	Gimaranat East	Level-I	SW	6.0	3.0	0.2
	Gimaranat West	Level-I	SW	12.0	3.0	0.2
	Gimaranat West	Level-II	SW	10.0	5.0	2.1
	Limba	Level-I	SW	12.0	3.0	0.2
	Limba	Level-I	SW	6.0	3.0	0.2
	Lubi-lubi	Level-I	SW	6.0	3.0	0.2
	Luneta	Level-I	SW	12.0	6.0	0.2
	Luneta	Level-II	SW	10.0	5.0	2.1
	Mag-aso	Level-II	DW	20.0	5.0	8.7
	Moroboro	Level-I	SW	6.0	3.0	0.2
	Pansud	Level-II	SW	10.0	5.0	2.1
	Pawa	Level-I	SW	12.0	3.0	0.2
	Piliway	Level-I	SW	6.0	3.0	0.2
	Poblacion District 1	Level-I	SW	6.0	3.0	0.2
	Poblacion District 3	Level-I	SW	6.0	3.0	0.2
	Poblacion District 4	Level-I	SW	6.0	3.0	0.2
	Poblacion District 5	Level-I	SW	12.0	3.0	0.2
	Quiong	Level-I	SW	12.0	6.0	0.2
	Quiong	Level-I	SW	6.0	6.0	0.2
	Rizal	Level-I	SW	12.0	3.0	0.2
	Rizal	Level-I	SW	6.0	3.0	0.2
	San Victoray	Level-I	SW	6.0	3.0	0.2
	Santa Ana	Level-I	SW	12.0	3.0	0.2
	Santa Ana	Level-I	SW	6.0	3.0	0.2
	Santa Elena	Level-I	SW	6.0	3.0	0.2
	Tarugan	Level-I	SW	12.0	3.0	0.2
Leyte	Belen	Level-I	DW	36.0	3.0	0.2
	Burabod	Level-I	DW	30.0	3.0	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Leyte	Calaguise	Level-I	SW	18.0	3.0	0.2
	Elizabeth	Level-I	SW	12.0	6.0	0.2
	Libas	Level-I	DW	36.0	3.0	0.2
	Macupa	Level-I	DW	36.0	3.0	0.2
	Palid II (Iraya)	Level-I	SW	12.0	6.0	0.2
	Sambulawan	Level-I	DW	36.0	3.0	0.2
	Tag-abaca	Level-I	SW	18.0	3.0	0.2
	Toctoc	Level-I	DW	24.0	3.0	0.2
	Ugbon	Level-I	SW	12.0	3.0	0.2
MacArthur	Batug	Level-I	DW	42.7	3.0	0.2
	Capudlosan	Level-I	SW	6.0	3.0	0.2
	Casuntingan	Level-I	SW	6.0	3.0	0.2
	Causwagan	Level-I	DW	54.9	35.0	0.2
	Danao	Level-I	SW	9.0	3.0	0.2
	Danao	Level-II	DW	48.8	35.0	0.3
	Dona Josefa	Level-I	SW	6.0	3.0	0.2
	General Luna	Level-I	DW	42.7	3.0	0.2
	Kiling	Level-I	SW	6.0	6.0	0.2
	Liwayway	Level-I	SW	9.0	3.0	0.2
	Maya	Level-I	SW	6.0	3.0	0.2
	Osmena	Level-I	SW	9.0	3.0	0.2
	Palale 1	Level-I	SW	9.0	3.0	0.2
	Palale 2	Level-I	SW	9.0	3.0	0.2
	Palale 2	Level-II	DW	56.4	40.0	1.4
	Palale 3	Level-II	DW	56.4	40.0	1.4
	Poblacion District 1	Level-I	SW	9.0	3.0	0.2
	Poblacion District 2	Level-I	SW	9.0	3.0	0.2
	Poblacion District 3	Level-I	SW	6.0	3.0	0.2
	Poblacion District 3	Level-II	DW	48.8	35.0	0.2
	Pongon	Level-I	SW	6.0	3.0	0.2
	Quezon	Level-I	DW	48.8	3.0	0.2
	Romualdez	Level-I	DW	48.8	3.0	0.2
	San Antonio	Level-I	SW	9.0	6.0	0.2
	San Isidro	Level-I	SW	6.0	3.0	0.2
	San Pedro	Level-I	SW	6.0	3.0	0.2
	Tinawan	Level-I	SW	9.0	3.0	0.2
	Tinawan	Level-II	DW	56.4	40.0	1.4
	Tuyo	Level-I	SW	9.0	3.0	0.2
	Villa Imelda	Level-I	SW	9.0	3.0	0.2
Mahaplag	Campin	Level-I	SW	18.0	3.0	0.2
	Campin	Level-I	SW	6.0	3.0	0.2
	Hinaguimitan	Level-I	SW	6.0	3.0	0.2
	Mahayahay	Level-I	SW	6.0	3.0	0.2
	Malinao	Level-I	SW	18.0	3.0	0.2
	Poblacion	Level-I	SW	18.0	3.0	0.2
	Poblacion	Level-II	DW	24.0	6.0	0.5
	Poblacion	Level-II	SW	9.0	6.0	-

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Mahaplag	San Isidro	Level-I	SW	18.0	3.0	0.2
	San Isidro	Level-I	SW	6.0	3.0	0.2
	Uguis	Level-I	SW	18.0	6.0	0.2
Matag-ob	Balagtas	Level-I	SW	12.0	3.0	0.2
	Candelaria	Level-I	SW	6.0	3.0	0.2
	Cansoso	Level-I	SW	6.0	3.0	0.2
	Imelda	Level-I	SW	6.0	3.0	0.2
	Malazarte	Level-I	SW	12.0	3.0	0.2
	Mansahaon	Level-I	SW	6.0	3.0	0.2
	Mansalip (Pob.)	Level-I	SW	6.0	3.0	0.2
	Riverside (Pob.)	Level-I	SW	6.0	3.0	0.2
	San Guillermo	Level-I	SW	6.0	3.0	0.2
	San Vicente	Level-I	SW	6.0	3.0	0.2
	Santa Rosa	Level-I	SW	12.0	3.0	0.2
	Santo Rosario	Level-I	SW	1.5	0.5	0.2
	Talisay (Pob.)	Level-I	SW	6.0	3.0	0.2
Matalom	Agbanga	Level-I	SW	10.0	3.0	0.2
	Bagong Lipunan	Level-I	SW	10.0	3.0	0.2
	Cahagnaan	Level-I	DW	20.0	3.0	0.2
	Cahagnaan	Level-I	SW	12.0	3.0	0.2
	Calumpang	Level-I	DW	26.0	3.0	0.2
	Calumpang	Level-I	SW	16.0	6.0	0.2
	Caningag	Level-I	DW	20.0	3.0	0.2
	Caningag	Level-I	SW	18.0	6.0	0.2
	Caridad Norte	Level-I	DW	20.0	3.0	0.2
	Caridad Norte	Level-I	SW	10.0	3.0	0.2
	Caridad Sur	Level-I	DW	20.0	3.0	0.2
	Caridad Sur	Level-I	SW	10.0	3.0	0.2
	Elevado	Level-I	DW	26.0	3.0	0.2
	Elevado	Level-I	SW	2.0	3.0	0.2
	Esperanza	Level-I	SW	13.0	3.0	0.2
	Hitoog	Level-I	SW	12.0	3.0	0.2
	Itum	Level-I	SW	10.0	3.0	0.2
	Monte Alegre	Level-I	SW	14.0	6.0	0.2
	President Garcia	Level-I	SW	14.0	3.0	0.2
	Punong	Level-I	DW	26.0	3.0	0.2
	Punong	Level-I	SW	10.0	3.0	0.2
	San Isidro (Pob.)	Level-I	DW	20.0	3.0	0.2
	San Isidro (Pob.)	Level-I	SW	6.0	3.0	0.2
	San Juan	Level-I	SW	10.0	6.0	0.2
	San Pedro (Pob.)	Level-I	DW	20.0	3.0	0.2
	San Pedro (Pob.)	Level-I	SW	10.0	3.0	0.2
	San Salvador	Level-I	DW	26.0	3.0	0.2
	San Salvador	Level-I	SW	8.0	3.0	0.2
	San Vicente	Level-I	DW	26.0	3.0	0.2
	San Vicente	Level-I	SW	18.0	6.0	0.2
	Santa Fe	Level-I	DW	20.0	3.0	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Matalom	Santa Fe	Level-I	SW	10.0	3.0	0.2
	Santa Paz	Level-I	DW	26.0	3.0	0.2
	Santa Paz	Level-I	SW	15.0	6.0	0.2
	Santo Nino (Pob.)	Level-I	DW	20.0	3.0	0.2
	Santo Nino (Pob.)	Level-I	SW	10.0	3.0	0.2
	Taglibas Imelda	Level-I	SW	12.0	0.0	0.2
	Tag-os	Level-I	DW	20.0	3.0	0.2
	Tag-os	Level-I	SW	10.0	3.0	0.2
	Templanza	Level-I	SW	15.0	6.0	0.2
	Tigbao	Level-I	DW	26.0	3.0	0.2
	Tigbao	Level-I	SW	12.0	3.0	0.2
	Waterloo	Level-I	SW	12.0	6.0	0.2
	Zaragoza	Level-I	DW	24.0	3.0	0.2
	Zaragoza	Level-I	SW	10.0	3.0	0.2
Mayorga	A. Bonifacio	Level-I	DW	20.0	3.0	0.2
	Burgos	Level-I	DW	20.0	3.0	0.2
	Camansi	Level-I	DW	20.0	3.0	0.2
	General Antonio Luna	Level-I	DW	20.0	3.0	0.2
	Liberty	Level-I	DW	20.0	3.0	0.2
	Mabini	Level-I	DW	20.0	3.0	0.2
	Ormocay	Level-I	SW	18.0	3.0	0.2
	Ormocay	Level-II	DW	40.0	10.0	
	Poblacion Zone 1	Level-I	DW	25.0	3.0	0.2
	Poblacion Zone 2	Level-I	DW	20.0	3.0	0.2
	Poblacion Zone 3	Level-I	DW	25.0	3.0	0.2
	Poblacion Zone 4	Level-II	DW	40.0	10.0	
	San Roque	Level-I	DW	20.0	3.0	0.2
	Santa Cruz	Level-I	DW	20.0	3.0	0.2
	Talisay	Level-I	DW	20.0	3.0	0.2
	Union	Level-I	DW	20.0	3.0	0.2
	Wilson	Level-I	DW	20.0	3.0	0.2
	Wilson	Level-II	DW	40.0	10.0	
Merida	Benabaye	Level-I	DW	27.0	3.0	0.2
	Benabaye	Level-I	SW	12.0	3.0	0.2
	Cabaliwan	Level-I	DW	27.0	3.0	0.2
	Cabaliwan	Level-I	SW	12.0	3.0	0.2
	Calunangan	Level-I	DW	36.0	3.0	0.2
	Calunangan	Level-I	SW	6.0	3.0	0.2
	Calunasan	Level-I	SW	12.0	3.0	0.2
	Cambalong	Level-I	DW	53.0	3.0	0.2
	Cambalong	Level-I	SW	12.0	3.0	0.2
	Can-unzo	Level-I	DW	36.0	3.0	0.2
	Can-unzo	Level-I	SW	18.0	3.0	0.2
	Casilda	Level-I	SW	12.0	3.0	0.2
	Lamanoc	Level-I	DW	27.0	3.0	0.2
	Lamanoc	Level-I	SW	6.0	3.0	0.2
	Libas	Level-I	DW	36.0	3.0	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Merida	Libas	Level-I	SW	12.0	3.0	0.2
	Libjo	Level-I	DW	27.0	3.0	0.2
	Libjo	Level-I	SW	6.0	3.0	0.2
	Lundag	Level-I	DW	36.0	3.0	0.2
	Lundag	Level-I	SW	12.0	3.0	0.2
	Macario	Level-I	DW	36.0	3.0	0.2
	Mahalit	Level-I	DW	36.0	3.0	0.2
	Mahalit	Level-I	SW	6.0	3.0	0.2
	Mahayag	Level-I	DW	36.0	3.0	0.2
	Mahayag	Level-I	SW	18.0	3.0	0.2
	Mat-e	Level-I	DW	36.0	3.0	0.2
	Mat-e	Level-I	SW	18.0	3.0	0.2
	Poblacion	Level-I	DW	36.0	3.0	0.2
	Poblacion	Level-I	SW	18.0	3.0	0.2
	Puerto Bello	Level-I	DW	30.0	3.0	0.2
	Puerto Bello	Level-I	SW	12.0	3.0	0.2
	Puerto Bello	Level-II	DW	36.0	25.0	26.0
	San Jose	Level-I	DW	36.0	3.0	0.2
	San Jose	Level-I	SW	18.0	3.0	0.2
	Tubod	Level-I	DW	36.0	3.0	0.2
	Tubod	Level-I	SW	18.0	3.0	0.2
Palompon	Baguinbin	Level-I	SW	6.1	3.0	0.2
	Buenavista	Level-II	SW	18.3	12.1	3.0
	Caduhaan	Level-II	SW	12.1	6.1	1.6
	Canipaan	Level-I	DW	24.5	3.0	0.2
	Canipaan	Level-II	SW	18.3	6.2	1.6
	Cantuhaon	Level-I	SW	6.1	3.0	0.2
	Cantuhaon	Level-III	DW	28.4	24.4	1.9
	Central 1 (Pob.)	Level-I	SW	6.1	3.0	0.2
	Central 1 (Pob.)	Level-III	DW	28.4	24.4	1.9
	Central 2 (Pob.)	Level-I	SW	6.1	3.0	0.2
	Central 2 (Pob.)	Level-III	DW	28.4	24.4	1.9
	Cruz	Level-II	SW	6.1	3.3	0.8
	Guiwan 2 (Pob.)	Level-I	SW	6.1	3.0	0.2
	Guiwan 2 (Pob.)	Level-III	DW	28.4	24.4	1.9
	Himarco	Level-I	SW	18.3	3.0	0.2
	Ipil I	Level-I	SW	6.1	6.0	0.2
	Ipil I	Level-III	DW	28.4	24.4	1.9
	Ipil II	Level-I	SW	6.1	3.0	0.2
	Ipil II	Level-III	DW	28.4	24.4	1.9
	Ipil III	Level-I	SW	6.1	6.0	0.2
	Ipil III	Level-III	DW	28.4	24.4	1.9
	Lat-osan	Level-I	SW	18.3	3.0	0.2
	Lomonon	Level-II	SW	12.1	5.9	1.5
	Mazawalo Pob. (Lili-on)	Level-I	SW	6.1	3.0	0.2
	Mazawalo Pob. (Lili-on)	Level-III	DW	28.4	24.4	1.9
	Plaridel	Level-II	SW	12.1	6.1	1.6

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Palompon	Rizal	Level-I	SW	6.1	3.0	0.2
	San Miguel	Level-II	SW	12.1	5.9	1.5
	Taberna	Level-II	SW	6.2	4.2	2.3
	Tabunok	Level-I	SW	8.5	3.0	0.2
	Tabunok	Level-II	SW	10.2	8.2	2.0
	Tambis	Level-II	SW	12.1	6.1	1.5
	Tinago	Level-II	SW	12.1	5.6	1.5
	Tinubdan	Level-II	SW	12.1	5.0	1.3
Pastrana	Arabonog	Level-I	SW	5.0	3.0	0.2
	Aringit	Level-I	SW	5.0	3.0	0.2
	Bahay	Level-I	SW	6.0	3.0	0.2
	Cancaraja	Level-I	SW	4.0	6.0	0.2
	Caninoan	Level-I	SW	6.0	3.0	0.2
	Colawen	Level-I	SW	5.0	6.0	0.2
	Dumarag	Level-I	SW	4.0	3.0	0.2
	Guindapunan	Level-I	SW	5.0	3.0	0.2
	Halaba	Level-I	SW	5.0	3.0	0.2
	Lanawan	Level-I	SW	3.0	3.0	0.2
	Lima	Level-I	SW	3.0	3.0	0.2
	Sapsap	Level-I	SW	3.0	3.0	0.2
	Tingib	Level-I	DW	20.0	3.0	0.2
San Isidro	Banat-e	Level-I	DW	30.0	6.0	0.2
	Banat-e	Level-I	SW	3.5	3.0	0.2
	Basud	Level-I	DW	30.0	6.0	0.2
	Basud	Level-I	SW	3.5	3.0	0.2
	Bawod (Pob.)	Level-I	DW	30.0	6.0	0.2
	Bawod (Pob.)	Level-I	SW	3.5	3.0	0.2
	Biasong	Level-I	SW	3.5	3.0	0.2
	Bunacan	Level-I	DW	30.0	6.0	0.2
	Bunacan	Level-I	SW	4.5	3.0	0.2
	Busay	Level-I	SW	4.5	3.0	0.2
	Cabungaan	Level-I	SW	4.5	3.0	0.2
	Capinahan (Pob.)	Level-I	DW	30.0	0.0	0.2
	Capinahan (Pob.)	Level-I	SW	3.5	3.0	0.2
	Capinahan (Pob.)	Level-II	DW	100.0	65.0	0.9
	Crossing (Pob.)	Level-I	DW	30.0	6.0	0.2
	Crossing (Pob.)	Level-I	SW	3.5	3.0	0.2
	Daja-daku	Level-I	DW	30.0	6.0	0.2
	Daja-daku	Level-I	SW	3.5	3.0	0.2
	Daja-diot	Level-I	DW	30.0	6.0	0.2
	Daja-diot	Level-I	SW	3.4	3.0	0.2
	Linao	Level-I	SW	3.5	3.0	0.2
	Matungao	Level-I	SW	3.5	3.0	0.2
	Paril	Level-I	SW	3.5	3.0	0.2
	San Jose	Level-I	SW	4.5	3.0	0.2
	San Miguel	Level-I	SW	4.5	3.0	0.2
	Taglawigan	Level-I	SW	3.5	3.0	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
San Isidro	Tinago	Level-I	SW	3.5	3.0	0.2
San Miguel	Bahay	Level-I	DW	24.4	3.0	0.2
	Bairan	Level-I	SW	6.0	3.0	0.2
	Cabatianuhan	Level-I	SW	6.0	3.0	0.2
	Canap	Level-II	SW	6.0	-	-
	Capilihan	Level-I	DW	24.4	3.0	0.2
	Caraycaray	Level-I	SW	18.3	3.0	0.2
	Cayare (West Poblacion)	Level-I	DW	24.4	3.0	0.2
	Cayare (West Poblacion)	Level-I	SW	6.0	3.0	0.2
	Guinciaman	Level-I	SW	6.0	3.0	0.2
	Kinalumsan	Level-I	SW	12.2	3.0	0.2
	Kinalumsan	Level-I	SW	6.0	3.0	0.2
	Libtong (East Poblacion)	Level-I	SW	6.0	3.0	0.2
	Lukay	Level-I	SW	6.0	3.0	0.2
	Malaguinabot	Level-I	SW	6.0	3.0	0.2
	Malpag	Level-I	SW	3.0	3.0	0.2
	Mawodpawod	Level-I	SW	18.3	3.0	0.2
	Mawodpawod	Level-I	SW	3.0	3.0	0.2
	Patong	Level-I	SW	6.0	3.0	0.2
	San Andres	Level-I	SW	4.0	3.0	0.2
	Santa Cruz	Level-II	SW	3.0	-	0.1
	Santol	Level-I	DW	24.4	3.0	0.2
Santa Fe	Baculanad	Level-I	SW	2.5	2.0	0.2
	Baculanad	Level-I	SW	1.5	1.0	0.2
	Bulod	Level-I	SW	3.0	3.0	0.2
	Catoogan	Level-I	SW	3.0	3.0	0.2
	Cutay	Level-I	SW	3.0	3.0	0.2
	Katipunan	Level-I	SW	3.5	3.0	0.2
	Milagrosa	Level-I	SW	3.0	3.0	0.2
	Pilit	Level-I	SW	3.0	3.0	0.2
	Pitogo	Level-I	SW	3.0	3.0	0.2
	San Isidro	Level-I	SW	5.0	6.0	0.2
	San Isidro	Level-II	SW	4.0	1.5	0.1
	San Juan	Level-I	SW	2.5	2.0	0.2
	San Juan	Level-II	SW	3.5	1.0	0.1
	San Roque	Level-I	SW	2.0	1.0	0.2
	San Roque	Level-II	SW	4.0	2.0	0.1
	Tibak	Level-I	SW	5.0	3.0	0.2
	Victoria	Level-I	SW	3.0	6.0	0.2
	Zone 1 (Pob.)	Level-I	SW	2.0	2.0	0.2
	Zone 2 (Pob.)	Level-I	SW	2.5	2.0	0.2
	Zone 3 (Pob.)	Level-I	SW	2.0	2.0	0.2
	Zone 4 (Pob. Cabangcalan)	Level-I	SW	2.0	2.0	0.2
Tabango	Butason I	Level-I	SW	6.0	3.0	0.2
	Butason II	Level-I	SW	6.0	3.0	0.2
	Campokpok	Level-I	SW	6.0	3.0	0.2
	Catmon	Level-I	SW	6.0	3.0	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Tabango	Gibacungan	Level-I	SW	6.0	3.0	0.2
	Gimarco	Level-I	SW	6.0	3.0	0.2
	Inangatan	Level-I	SW	6.0	3.0	0.2
	Manlawaan	Level-I	SW	6.0	3.0	0.2
	Omaganhan	Level-I	SW	6.0	3.0	0.2
	Poblacion	Level-I	SW	6.0	3.0	0.2
	Santa Rosa	Level-I	SW	6.0	3.0	0.2
	Tabing	Level-I	SW	6.0	3.0	0.2
	Tugas	Level-I	SW	6.0	3.0	0.2
Tabontabon	Aslum	Level-I	SW	15.0	3.0	0.2
	Balingasag	Level-I	SW	15.0	3.0	0.2
	Belisong	Level-I	SW	15.0	3.0	0.2
	Cambucao	Level-I	SW	15.0	3.0	0.2
	Guingawan	Level-I	SW	15.0	3.0	0.2
	Jabong	Level-I	SW	14.0	3.0	0.2
	Mercadohay	Level-I	SW	15.0	3.0	0.2
	Mering	Level-III	DW	35.0	-	1.7
	San Pablo (Mooc)	Level-I	SW	15.0	3.0	0.2
Tanauan	Ada	Level-I	DW	20.0	3.0	0.2
	Bangon	Level-I	SW	18.0	3.0	0.2
	Bantagan	Level-I	DW	20.0	3.0	0.2
	Binoto	Level-I	SW	12.0	-	0.2
	Binongto-an	Level-I	SW	18.0	-	0.2
	Cabonga-an	Level-I	SW	18.0	3.0	0.2
	Cahumayhumayan	Level-I	DW	20.0	3.0	0.2
	Calsadahay	Level-I	SW	12.0	3.0	0.2
	Canbalisara	Level-I	DW	20.0	3.0	0.2
	Catigbian	Level-I	SW	15.0	3.0	0.2
	Cogon	Level-I	SW	18.0	3.0	0.2
	Guingawan	Level-I	SW	16.0	3.0	0.2
	Hilagpad	Level-I	SW	18.0	3.0	0.2
	Kiling	Level-I	DW	20.0	3.0	0.2
	Linao	Level-I	DW	20.0	3.0	0.2
	Malaguicay	Level-I	DW	20.0	3.0	0.2
	Pasil	Level-I	SW	18.0	3.0	0.2
	Salvador	Level-I	SW	18.0	3.0	0.2
	San Victor	Level-I	DW	20.0	3.0	0.2
	Talolora	Level-I	SW	16.0	3.0	0.2
Tolosa	Burak	Level-I	SW	4.5	3.0	0.2
	Cannogsay	Level-I	SW	4.5	4.5	0.2
	Cannogsay	Level-II	SW	4.5	2.0	-
	Cantariwis	Level-I	SW	4.5	4.5	0.2
	Capangihan	Level-I	SW	4.5	4.5	0.2
	Dona Brigida	Level-I	SW	4.5	4.5	0.2
	Imelda	Level-I	SW	4.5	4.5	0.2
	Malbog	Level-I	SW	4.5	4.5	0.2
	Olot	Level-I	SW	4.5	4.5	0.2

Table 7.3.1 Well Inventory by Municipality

Municipality	Barangay	Utilization	Type	Depth (m)	SWL (mbgs)	Spe. Cap. (lpsm)
Tolosa	Opong	Level-I	SW	4.5	4.5	0.2
	Poblacion	Level-I	SW	4.5	4.5	0.2
	Quilao	Level-I	SW	4.5	4.5	0.2
	San Roque	Level-I	SW	4.5	4.5	0.2
	San Vicente	Level-I	SW	4.5	4.5	0.2
	San Vicente	Level-II	SW	4.5	2.0	
	Tanghas	Level-I	SW	4.5	4.5	0.2
	Telegrafo	Level-I	SW	4.5	4.5	0.2
Tunga	Astorga (Upart)	Level-I	SW	18.0	3.0	0.2
	Balire	Level-I	SW	18.0	3.0	0.2
	Banawang	Level-I	DW	20.0	6.0	0.2
	Banawang	Level-I	SW	16.0	6.0	0.2
	San Pedro	Level-I	SW	12.0	3.0	0.2
	San Roque	Level-I	SW	10.0	6.0	0.2
	San Vicente (Pob.)	Level-I	SW	18.0	3.0	0.2
	Santo Nino (Pob.)	Level-I	SW	14.0	3.0	0.2
Villaba	Abijao	Level-I	SW	6.0	3.0	0.2
	Balite	Level-I	SW	6.0	3.0	0.2
	Bangcal	Level-I	SW	6.0	3.0	0.2
	Bugabuga	Level-I	SW	12.0	6.0	0.2
	Cabunga-an	Level-I	SW	6.0	6.0	0.2
	Cabungahan	Level-I	SW	6.0	6.0	0.2
	Calbugos	Level-I	SW	5.0	3.0	0.2
	Camporog	Level-I	SW	7.0	6.0	0.2
	Capinyahan	Level-I	SW	8.0	6.0	0.2
	Casili-on	Level-I	SW	6.0	3.0	0.2
	Catagbacan	Level-I	SW	6.0	3.0	0.2
	Hinabuyan	Level-I	SW	5.0	5.0	0.2
	Iligay	Level-I	SW	6.0	6.0	0.2
	Jalas	Level-I	SW	6.0	3.0	0.2
	Jordan	Level-I	SW	5.0	3.0	0.2
	Libagong	Level-I	SW	7.0	3.0	0.2
	New Balanac	Level-I	SW	6.0	3.0	0.2
	Payao	Level-I	SW	5.0	3.0	0.2
	Sambulawan	Level-I	SW	8.0	6.0	0.2
	San Francisco	Level-I	SW	8.0	6.0	0.2
	San Vicente	Level-I	SW	6.0	3.0	0.2
	Santa Cruz	Level-I	SW	8.0	3.0	0.2
	Silad	Level-I	SW	6.0	3.0	0.2
	Tabunok	Level-I	SW	6.0	3.0	0.2
	Tinghub	Level-I	SW	7.0	3.0	0.2

Table 7.3.2 Groundwater Quality

No.	Municipality	Type	Bacterio.		Physical Analysis						Chemical Analysis				Major Cations				Major Anions				Trace Ele.	
			Coli. Cnt.	Bact. Cnt.	T C	NTU -	TCU -	Odor -	TDS mg/l	EC mmpc	pH -	TH mg/l	Alka. mg/l	Acid. mg/l	Na mg/l	K mg/l	Ca mg/l	Mg mg/l	CO3 mg/l	HCO3 mg/l	Cl mg/l	SO4 mg/l	Fe mg/l	Mn mg/l
Philippine National Standard for Drinking Water -1994-			0	0	-	5>	5>	unobj.	500>	-	6.5 to 8.5	300>	-	-	-	200>	-	-	-	-	200>	250>	1>	0.5>
1	Burauen	SW	0	100		0.9	0.5				6.5												0.03	0.06
2	Burauen	DW				3.0	2.1				7.3												0.10	0.32
3	Mahaplag	DW				0.3	1.1				6.5												0.13	0.02
4	Jaro	SW	30	50		0.3	2.0				5.9												0.05	0.01
5	Carigara	DW				0.0	2.7				6.7												0.00	0.02
6	Carigara	DW				0.3	1.9				6.7												0.03	0.02
7	Capoocan	DW				0.4	3.1				7.4												0.06	0.04
8	Alangalan	SW	0	10		1.9	4.1				6.5												0.04	0.03
9	Alangalan	SW	0	30		1.8	1.6				7.1												0.05	0.03
10	Alangalan	SW	0	10		3.8	3.6				6.8												0.01	0.03
11	Abuyog	DW	0	10		3.0	3.3				7.6												0.27	0.33
12	Hilongos	DW				0.7	4.3				7.7												0.16	0.11
13	Hilongos	DW	0	30		4.2	3.9				8.0												0.07	0.10
14	Inopacan	SW	0	10		1.2	3.2				7.2												0.14	0.05
15	Baybay	USP				1.8	3.1				7.5												0.04	0.01
16	Mahaplag	USP				0.5	1.0				5.9												0.00	0.05
17	Capoocan	USP				0.2	2.5				6.0												0.01	0.03
18	Calubian	USP				14.6	4.8				7.3												0.11	0.05
19	Calubian	SP				11.3	4.0				7.3												0.08	0.03
20	Babatngon	USP				1.7	1.8				7.4												0.10	0.02
21	Kananga	SP	0	30		0.0	2.7				6.5												0.03	0.01

Source; Water quality results were collected from respective Water Districts or analyzed by PSPT on site in the field survey using procured instruments.
Notes; Sampling point is located at handpump (L-I) or submersible pump (L-II/III).