



THE

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THE FLOW

OPLAN LINIS TUBO

SCWD,
Primewater,
AWC complete
'Oplan Linis Tubo'
at BNCC Comp.
(story on page 3)

Official Monthly Newsletter of the Sorsogon City Water District

11 SCWD, PrimeWater employees donate blood

by: Elaine Leith S. Olea

With the invitation from the Provincial Government of Sorsogon-Provincial Health Office (PHO) through Provincial Blood Program Manager Rene R. Ativo RMT, seven employees of SCWD and four employees from its joint venture partner PrimeWater Infrastructure Corp.-Sorsogon City Branch donated blood during the third batch of the mobile blood donation activity under the banks and cooperative sector at Boffin Bldg., Sorsogon Provincial Hospital (SPH), Brgy. Macabog, Sorsogon City last May 30.



For SCWD, they were: Customer Service Officer and concurrent Officer-in-Charge Elaine Leith S. Olea; Acting Division Manager Annabelle V. Ancheta; Senior Laboratory Technician Charmaine B. Mandane RMT; Senior Automechanic Pablo L. Gutierrez; Utility Worker Armando J. Basilio; and job order workers Wilfredo T. Doctor Jr. (driver/laboratory aide) and Anthony E. Azure (IT aide).

For PrimeWater-Sorsogon City, they were: NRW Reduction team leader Engr. Mark Anthony Ll. Afonuevo; Water Resources team leader Engr. Florenz Marc G. Bermundo; Driver Noel M. Maraño; and Accounts Officer Cathlyn Garan.

Sorsogon City Health Office Rural Health Physician Dr. Ahmer De Castro, together with PHO staff, conducted the blood-typing and

physical screening to ensure that donors were qualified to donate blood. Four hundred fifty cubic centimeters (450 cc) of blood were collected per donor, or a total of 4,950 cc of blood donated by volunteers from SCWD and PrimeWater-Sorsogon City.

Sorsogon PHO's sectoral blood donation conducted every last Monday of the month was in compliance to requirements of the Department of

Health to enhance the province's hospital-based blood banks. The first batch of the sectoral group donors were SPH and PHO employees last Mar. 28, followed by the Sorsogon Provincial Capitol employees last Apr. 25.

Aside from the sectoral donations, municipal clustered schedules of blood donation were performed every Wednesday and Friday of the month.

Said one of the donors: "Definitely, this blood donation drive will help address the shortage in the blood supply in the Province of Sorsogon. It was a wonderful and fulfilling experience knowing that the blood donated can be used to save lives. Be a hero! Be a donor!"

Aside from SCWD and PrimeWater-Sorsogon City, other blood donors for the last Monday of May came from Sorsogon II Electric Cooperative (SORECO II) and banking institutions in the province of Sorsogon.

New mushroom filters installed at San Pascual PS by: Engr. Alejandro L. Alama

Following the repairs last Dec. 2021, a new and improved system using mushroom filters were installed and operated at the San Pascual Pumping Station's De-Manganese and Iron 65 (DMI65) tank beginning May 12.

PrimeWater Infrastructure Corp. Head Office water quality personnel Engr. Viviel May Ramirez, chemical engineer, and Engr. Drundle Cordero, sanitary engineer, conducted the audit, site inspection and testing of iron (Fe), Manganese (Mn) and residual chlorine (Cl₂) values of product water, together with SCWD's Senior Laboratory Technician

Charmaine B. Mandane RMT, PrimeWater-Sorsogon City's Water Resource Engr. Florenz Marc G. Bermundo and Bauer International Philippines, Inc. (project contractor) Operations and Maintenance Engr. Aries T. Laguinday (photo below).

Water samples which passed through the newly-repaired filter system showed an average value of 0.03 ppm for Fe; 0.095 ppm for Mn; and 0.92 ppm for residual Cl₂ after six trials.

The limits set by the 2017 Philippine National Standards for Drinking Water are 0.40 ppm for Mn, 1.00 ppm for Fe and 1.5 ppm for residual Cl₂.

Other parameters tested such as apparent color, turbidity, total dissolved solids (TDS) and pH were also found compliant to the minimum requirements of the 2017 PNSDW.

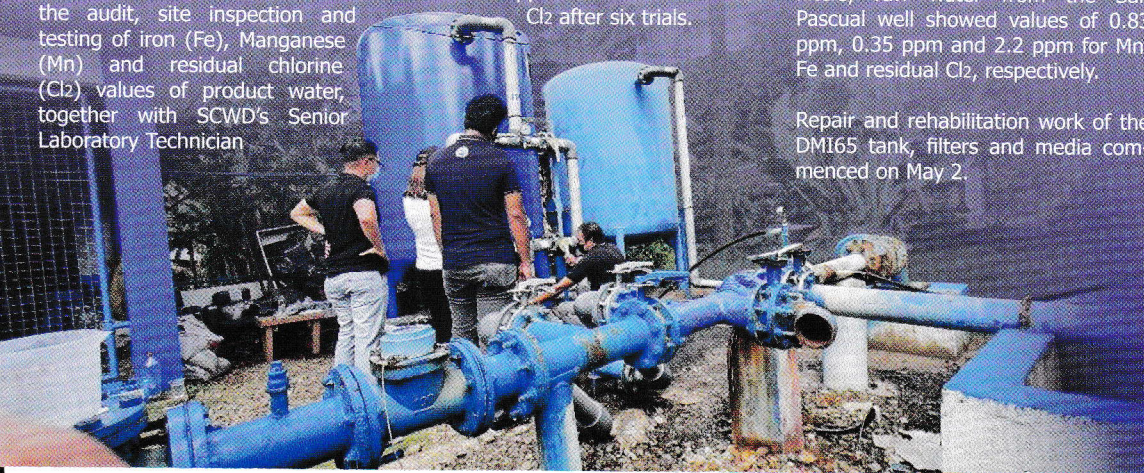
Prior filtration via the old DMI65 filters, raw water from the San Pascual well showed values of 0.83 ppm, 0.35 ppm and 2.2 ppm for Mn, Fe and residual Cl₂, respectively.

Repair and rehabilitation work of the DMI65 tank, filters and media commenced on May 2.

In a meeting with PrimeWater main office and Sorsogon City branch water quality personnel also on May 12, SCWD IGM Engr. Eduardo P. Tejada reiterated PrimeWater's compliance to drinking water standards, one the major service obligations as mentioned in Section 5.1.3 of the SCWD-PrimeWater Joint Venture Agreement.

IGM Tejada also underscored the need to prioritize the immediate installation of in-line chlorinators at seven locations jointly identified by SCWD and PrimeWater-Sorsogon City.

These are: outlet pipe of the Macabog steel bolted tank; outlet pipe of the Bacon steel bolted tank; 6-inch diameter Pangpang Line supplied by the Macabog reservoir; outlet pipe of the Cabid-an concrete tank; new pipeline at corner J. Reyes and F. Jimenez Streets, Brgy. Bitan-o/Dalipay; new pipeline along Rizal Street, Brgy. Plot; and new pipeline at corner Burgos and Gerona Streets, Brgy. Burabod.





The flow of Alinao 3 spring when measured last Feb.4

SPRINGS

By: **ENGR. EDUARDO P. TEJADA** Interim General Manager

Spring sources are oftentimes used for domestic water supply. Its advantages include, but not limited to, high water quality, very little operation and maintenance cost, low construction cost and high reliability. Some of the disadvantages, however, are unstable flow, mostly dependent on rainfall, increase of yield is not possible, some risk of contamination, possibility of spring disappearance and location not easily accessible. As per definition, a natural spring is a special type of groundwater source where pressurized water emerges from the ground in a steady flow. All natural springs are the result of an aquifer which consists of an underground area of rock and other materials such as gravel, sand and silt. A spring may be ephemeral (intermittent) or perennial (continuous). Springs can be developed by enlarging the water outlet and constructing an intake structure for catchment, storage and eventually distribution.

The protection of springs from contamination can be improved by restricting land-use practices around the spring recharge area, usually on higher ground near the spring. The recharge area may, however, be located far from the spring. A well preserved, protected and maintained spring source provides better tasting water due to the natural filtration process and the presence of naturally occurring minerals.

January. The production is substantial until the month of June. The springs are believed to be recharging during the months of June to November, hence, the low production.

The SCWD thru PrimeWater is currently operating and maintaining with five (5) spring sources: Alinao 1, Alinao 3, Anahaw, Matacla 1 & 2 and Matacla 3. For the year 2021, these spring sources yield 523,743 cubic meters of safe water that accounts for 10.77% of the total water production.

During the recharging episode of the subject springs, the west area of the city is affected. The SCWD thru its partners is currently developing more water sources to address this inevitable occurrence. The newly-developed and now operating St. Raphael Pumping Station and the ongoing development of San Lorenzo Pumping Station are all intended to address the perennial problem.

For the past years, the said spring sources, considered as ephemeral, demonstrated a pattern in terms of its production. The highest yield is usually recorded in the month of

It is expected that before the year 2022 ends, more water sources will be operational. Intermittent water supply in some areas will soon become things of the past, granting that PrimeWater, our contractor and agent, will successfully implement the so-called catch-up plan.

Failure on the part of PrimeWater to fully deliver its service obligations, including additional water sources, may prompt the Board of Directors and Management to consider other options available in the Joint Venture Agreement.

Coast Guard Station-Sorsogon receives used pipes from SCWD, PrimeWater

by: **Carl Bruce M. Guantero**

Coast Guard Station-Sorsogon (CGS-Sorsogon) of the Philippine Coast Guard-Coast Guard District Bicol located at Pier Site, Brgy. Talisay received four lengths of 4-inch diameter used PVC pipes from SCWD and PrimeWater-Sorsogon on May 10.


The pipes will be used to improve the drainage and to prevent the flooding inside the CGS-Sorsogon compound especially during the rainy season.

CGS-Sorsogon Commander Christian F. Jazmin personally received the donation from SCWD and PrimeWater-Sorsogon City through Engr. Alejandro L. Alama and Engr. Jerome J. Buen, respectively, assisted by SCWD staff Renato M. Lirio, Alpha Mae C. Ditan and Carl Bruce M. Guantero.

The CGS commander thanked the SCWD Management led by IGM Engr. Eduardo P. Tejada

and PrimeWater-Sorsogon City through Branch Manager Engr. Hendrickson E. Latonio for the donation as this would greatly improve the water flow within the CGS-Sorsogon Compound.

SCWD and CGS-Sorsogon have been partners in various activities for the environment, including tree-planting activity programs, coastal clean-up drives and disaster preparedness activities.



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Oplan Linis Tubo completed at BNCC Compound

by: Engr. Alejandro L. Alama

Oplan Linis Tubo or the extensive cleaning of water mains was completed by SCWD, PrimeWater-Sorsogon City and Abejo Waters Corp. within Bagong Nilalang Child Center (BNCC) Compound, Brgy. Cabid-an on May 31 at 10 AM.

Shock chlorination at 100 PSI of BNCC Compound's 478-meter, 2-inch diameter distribution lines was achieved at 10 PM of May 30 and 6 AM of May 31, respectively, followed by successive air-scouring using compressed air, flushing and rinsing.

All individual connections and the main valve supplying BNCC Compound were temporarily closed during the shock chlorination and flushing works.

Bureau of Fire Protection-Sorsogon City Fire Station personnel SFO1 Michelle A. Lariosa, FO3 Rodel D. Briones, FO3 Shanna J. Escultura, FO1 Bien Mark H. Mascariñas and FO1 Madel J. Abula supplied water to the compound using the city station's firetruck on May 31. SCWD's Renato M. Lirio and Carl Bruce M. Guantero assisted them in water delivery.

Residual chlorine values were monitored on May 30-31 to ensure sufficient treatment during the actual shock dosing and to comply with the 2017 Philippine National Standards for Drinking Water

requirements (between 0.3 and 1.5 ppm) upon water supply resumption. Prior the activity, SCWD IGM Engr. Eduardo P. Tejada visited BNCC Compound on May 23 to identify the project needs and requirements. He then personally coordinated with Brgy. Cabid-an Punong Barangay Ruperto B. Yco through a courtesy call on May 24.

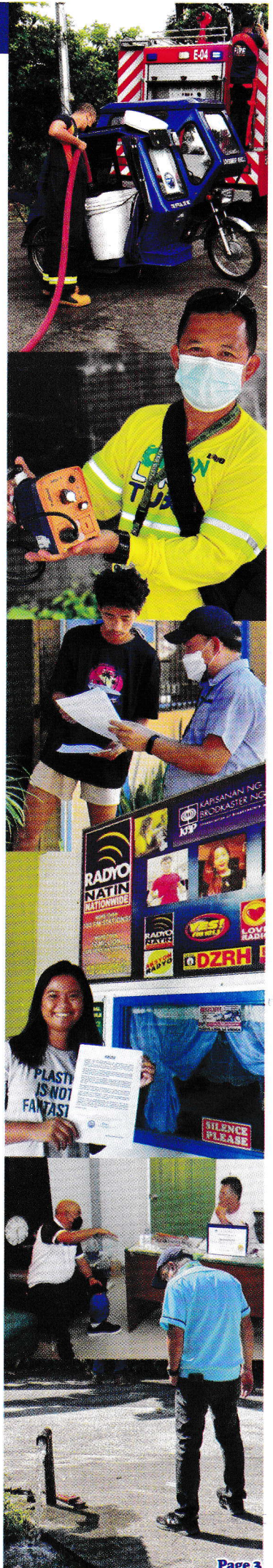
Sorsogon City Public Safety Office headed by Mr. Arnel H. Anchinges and all local radio stations in Sorsogon City also announced the activity on May 25-26.

Bayabay or public announcement using SCWD's mobile speaker and tricycle was done at BNCC Compound, Cabid-an barangay hall, PrimeWater-Sorsogon City office and SCWD office on May 27 and May 30.

Oplan Linis Tubo was also announced directly to BNCC Compound concessionaires' cellphones using SCWD's text blast application on May 27 and 29, as well as the advisory of its completion on May 31.

The activity was spearheaded by PrimeWater-Sorsogon City's Engr. Jerome J. Buen and seven

personnel from its Operations and Maintenance team, together with SCWD's Engineering and Operations personnel and Abejo Waters Corp.-Sorsogon Bulk Water Supply Plant Manager Biff D. Bulanon, who provided containers used by affected concessionaires for temporary water storage.



SCWD embarks on final phase of ISO certification journey

By: Annabelle V. Ancheta

Under the leadership of SCWD IGM Engr. Eduardo P. Tejada, SCWD embarked on the last stretch of its journey towards ISO 9001:2015 certification of its Quality Management System (QMS) this month of May.

On May 5-6, the SCWD QMS core team together with ISO consultants Jennifer M. De Leon and Mianmar DL Mariano conducted documents review and visited pumping stations to assess its readiness for SCWD to proceed with the third-party audit and ISO certification.



SCWD ISO coreteam with consultants last May 5.

Likewise on May 26, GM Tejada recommended for the engagement of the services a third-party certifying body for ISO 9001:2015 SWCD QMS during the regular meeting of the SCWD's governing board.

"Despite the challenges that we faced, with COVID-19 restrictions and

all, we are forging ahead with our bid to get ISO 9001:2015 certified with the end in view of providing our concessionaires and clients water services that is at par with international standards and one that

"The ISO certification is our assurance to our concessionaires and clients both external and internal that we are serious about a client-focused SCWD," ended IGM Tejada.

SCWD is expected to go through with its third-party audit on June 2022.

It can be noted that when IGM Tejada first came to office in 2019, his marching order was the conduct of the customer satisfaction survey to establish the baseline data on SCWD's customer

relations which has been sustained yearly since then.

He further reiterated the relentless pursuit of the SCWD Management for quality service and improved SCWD customer relations through continual improvement of its quality management system.

He also encouraged SCWD's two private partners PrimeWater-Sorsogon City and Abejo Waters Corp. to develop their respective quality management system manual.

UPDATES ON SITIO SAN LORENZO SOURCE DEVELOPMENT PROJECT

by: Alpha Mae C. Ditan

Preliminary activities for the laying of 4-inch diameter transmission lines for the proposed San Lorenzo Source Development project, one of the projects identified by PrimeWater-Sorsogon City in its one-year catch up plan intended to be fully operational by July 2022, commenced last May 27.

SCWD IGM Engr. Eduardo P. Tejada pushed for the development of the San Lorenzo well as an additional water source in the East District to augment water supply at Brgy. Bibinchan where the greatest number of active concessionaires reside.

A 180-linear meter pipelaying and inter-connection project was proposed by IGM Tejada, together with PrimeWater Sorsogon City, to make it beneficial to the concessionaires on Brgy. Bibinchan specifically City Village, OLV Bibinchan, Sitio Baribag and

Sitio San Lorenzo.

Last Sep. 10, 2021, a groundbreaking ceremony for the proposed well was conducted at Sitio San Lorenzo at a location where a July 2021 georesistivity survey conducted by Prime-



San Lorenzo well as of May 27.

Water projected a yield of up to 3,000 cubic meters per day, through a development of series of up to three to five wells.

Drilling of one initial 30-m deepwell was completed on January this year, which yielded approximately 520 cubic meters of water supply per day.

Regular monitoring of the project was done by IGM Tejada and the SCWD Engineering and Operations Department through its Division Manager Engr. Alejandro L. Alama and plumber/inventory aide Renato M. Lirio.

SCWD's Wilfredo T. Doctor Jr. and Primewater's Rexan Operio collecting water sample for microbiological analysis at Imperial Pumping Station last May 31.



SCWD sustains monitoring of pressure stations installed in May 2020

By: Engr. Alejandro L. Alama

SCWD continued to monitor the prevailing pressure in 34 served barangays using the pressure gauges installed two years ago, in order to determine whether the prevailing pressure at any given time and any point of the SCWD water system is at least 7.00 pounds per square inches (PSI), pursuant to Section 5.1.2 of the SCWD-PrimeWater Joint Venture Agreement.

For the month of May 2022, 52% of the points monitored showed a pressure of at least 7.00 PSI while the remaining 48% registered a pressure below 7.00 psi. The average pressure was determined to be 9.79 PSI.

From the original 104 monitoring

points installed as of May 2020, SCWD sustained pressure reading activities at 111 locations spread out in key locations of all served barangays, pursuant to the directive of SCWD IGM Engr. Eduardo P. Tejada.

Additional pressure locations were added after May 2020 in relation to various projects and maintenance works suggested by SCWD and implemented by PrimeWater-Sorsogon City at barangays Balogo, Burabod, Pangpang, Salog, Sampaloc and San Juan.

Data gathered from regular monitoring activities, since May 2020, were transmitted to PrimeWater-Sorsogon which served as guidance in the implementation of systems adjustments to achieve the minimum pressure of 7.00 PSI.

In other monitoring activities, SCWD also collected water samples from all operational pumping station for the month of May 2020 in compliance to section 5.1.3 of the SCWD-Primewater JVA.

Daily water quality monitoring for residual chlorine and turbidity were also conducted for the whole month of May 2022 at the 22 designated sampling stations systemwide.



SCWD's Renato M. Lirio and PrimeWater's Engr. Jerome J. Buen monitoring the flow and pressure at San Pascual Pumping Station last May 25.

AWC Sorsogon celebrates 7th anniversary by: Renee Rose T. Anagon



AWC Sorsogon, led by Plant-in-Charge Biff D. Bulanon, were joined by SCWD, PrimeWater and barangay officials in their anniversary celebration at the AWC ultrafiltration treatment plant, Brgy. Guinlajon last May 25.



Abejo Waters Corp. (AWC) Sorsogon Bulk Water Supply celebrated its 7th year anniversary as bulk water supplier of the SCWD at its treatment facility, Sitio Rangas, Brgy. Guinlajon, Sorsogon City on May 25.

AWC Sorsogon, led by Plant-in-Charge Biff D. Bulanon together with his Guinlajon and St. Raphael staff, welcomed guests and extended their gratitude for celebrating with them on their founding anniversary originally scheduled on Apr. 17.

The affair was moved to May 25 due to the existing COVID-19 pandemic and the observance of the Lenten season.

The post celebration, through a simple lunch, was attended by the SCWD Management and staff headed

by IGM Engr. Eduardo P. Tejada and PrimeWater-Sorsogon City Management and staff, represented by Operations and Maintenance Engr. Jerome J. Buen and Water Resources Engr. Florenz Marc G. Bermundo.

Also present were Guinlajon barangay officials, led by Punong Barangay Ramon E. Noga and Brgy. Kgw. Jesus 'Yong' Lagata.

A prayer of thanksgiving was led by Wilfredo T. Doctor Jr., SCWD driver/laboratory aide.

It was Aug. 1, 2012 when SCWD entered into a 25-year Joint Venture Agreement (JVA) with the Abejo Waters Corp. for a Bulk Water Supply Project, whereby potable and treated water shall be delivered by AWC to SCWD at a volume of at

least 3,000 cubic meter per day, using Cawayan River as surface water source. The first day of water delivery was on Mar. 23, 2015.

On Apr. 17, 2015, AWC inaugurated its Ultra Filtration (UF) System and Treatment Facility at Sitio Rangas, Brgy. Guinlajon, Sorsogon City. A deepwell source was added in the same site in July 2019.

As additional supply, AWC's St. Raphael Pumping Station located at St. Raphael Subdivision, Brgy. Pangpang, was inaugurated by Sorsogon City Mayor Ma. Ester E. Hamor last Feb. 14, 2021, allowing AWC to supply majority of the of the city's West District through a bulk water supply of almost 5,000 cubic meters per day.