

	ENVIRONMENT AND NATURAL RESOURCES		July				
			MONTH				
	Accomplishment Report		2023				
			YEAR				
PROGRAM/PROJECT/ACTIVITY				PROJECT DESCRIPTION		STATUS/REMARKS/ ACCOMPLISHMENT	
I. FOREST MANAGEMENT AND CONSERVATION DIVISION							
A. Forest Resources Development Activities:							
1. Nursery Operations & Maintenance Works							
a. Production/Propagation and Disposition of seedlings				Production, propagation and procurement of seedling stock and disposition of seedlings		<p>Beginning balance: 30,219 seedlings to include Agoho, Anchoan Dilaw, African Tulip, Balitbitan, Chest Nut, Golden Shower, Earpod, Ipil, Kamagong, Mahogany, Molave, Narra, Rubber Tree, Talisay, Tindalo, Tuai, Atis, Antipolo, Bignai, Cacao, Calamansi, Citrus/Mandarin, Duhat, Guyatis, Langka, Lansones, American Lemon, Lemon, Mangga, Mangosteen, Passion Fruit, Pomelo, Rambutan, Tamarind, Santol, Satsuma, Verba, Bamboo, Beetle Nut, and Tokyang Palm;</p> <p>Number of seedlings produced: A total of 182 consisting of 124 Forest Trees and 58 Fruit-bearing Trees Seedlings;</p> <p>Number of seedlings and saplings procured: A total of 3,714 consisting of 293 Saplings and 3,421 Seedlings;</p> <p>Number of seedlings released: A total of 781 assorted seedlings were disposed to various requesting constituents composed of 221 forest tree seedlings, 360 fruit-bearing tree seedlings and 210 Bamboo and Beetle Nut Propagules;</p> <p>Mortality rate at 1.69% equivalent to 579 seedlings was incurred.</p> <p>Stock balance: 32462 seedlings and 293 saplings as of July 31, 2023.</p> <p>As per record, 18 out of 23 seedling requests were disposed and distributed to different public and private entities. On the other hand, the remaining 5 requests are ready for pick-up.</p>	
b.Maintenance works				Maintenance of Provincial Nursery; Operation of Clonal Nursery; Brushing, ring weeding and greening of two nurseries; arrangement, and sorting of seedlings for hardening; seed and collection and propagation; and other activities that may be assigned to be accomplished during the period		Supervised and led by ENRO personnel assigned, 5 contractual laborers ensures the conduct of regular maintenance and operations of the nursery. Activities include improvement of seedling beds, potting for soil media, seeds and wildlings collection, watering, transplanting and sorting of seedlings.	

<p>2. Climate Change Mitigation/ Adaptation and DRRM Initiatives</p>	<p>Implementation of forest rehabilitation and other greening efforts such as but nor limited to watershed rehabilitation, agro-forestry, riparian rehabilitation & development, mangrove & beach forests rehabilitation and urban greening with the aim to reduce the causes of global warming and its effect to biodiversity; and protect communities from risks of hazards caused by natural calamities.</p>	<p>ENRO personnel together with the DENR-CENRO Nagullian representatives conducted site validation and survey of the proposed additional reforestation sites at IDRRIP, Sindun Bayabo, City of Ilagan, Isabela on July 11-14, 2023. Initially, the team located the corners and boundaries of proposed reforestation area thru the projected map coming from DENR-CENRO Naguillian as basis. In order to locate the exact boundaries of the area, the team conducted geo-tagging of coordinates in every corners of the plot. Since the area was extensive, the undersigned decided to divide the team into two groups to accomplish the activities on time. Despite of steep topography of the area and its distance to Ilagan-Divilacan Road, the area is feasible for reforestation and assisted natural regeneration.</p> <p>On July 18-21, 2023, personnel from this Office together with the ISEP-TF members travelled to IDRRIP, Sitio Lagis, Disipon, City of Ilagan, Isabela to conduct site preparation relative to the upcoming tree planting activity. The target tree planting site was located along the Ilagan-Divilacan Road with an area of 2.8 hectares covered with mixed species of shrubs and grasses. Since the area was vegetated and to prevent hindrance for the conduct of hole digging and staking, the team decided for the total bushing as initial activity. Hence, during the four day initial activity, the undersigned estimated a 50% of the total area was accomplished.</p> <p>Further, this Office conducted coordination in preparation for the implementation of Watershed Rehabilitation and Riparian Project in the Municipality of Sta. Maria and San Pablo, Isabela on June 21, 2023.</p> <p>Also, on July 20, 2023, personnel from this office travelled to Tumauni and Cabagan, Isabela to present the MOA for signature to the Local Chief Executive of Tumauni re: Agency to agency procurement and coordinate re: preparation activities for the implementation of riparian and watershed rehabilitation; agroforestry and urban greening development and carbon sink plantation projects.</p>
<p>B. Forest Protection and Law Enforcement Activities:</p>		
<p>1. Manning of Checkpoints</p>		

a. Foot/mobile Patrolling and Surveillance	Foot/mobile patrolling and surveillance of illegal cutting and transporting of forest products.	<p>ENRO and ISEP-TF personnel conducted surveillance and mobile patrolling in the following areas:</p> <p>-Alinguigan 3rd, Alinguigan 2md, Malalam, Fuyo, San Ignacio, San Juan, San Lorenzo, Bintacan, Cabisera 8, Cabisera 14-15, Cabisera 22, Sitio Lagis, Sindon Bayabo, and other forest barangays of City of Ilagan, Isabela;</p> <p>-Magassi, Masipi East, and Masipi West, Cabagan, Isabela;</p> <p>-Antagan 1st, Antagan 2nd and Dy-Abra, Tumauni, Isabela;</p> <p>-Benito Soliven and San Mariano areas;</p> <p>-Forest region at Jones and San Agustin, Isabela;</p> <p>-Ilagan-Divilacan Road Rehabilitation Project (IDRRIP)</p> <p>Also, assisted in the monitoring of Sand and Gravel Extraction Activities.</p>
b. Apprehension/Confiscation	Apprehension/confiscation of illegally cut and transported forest products	<p>For this month, ISEP-TF assigned at forest protection were able to apprehend seventy-one (71) pieces with a total volume of 1,188.66 board feet of Common Hard Wood and Narra Flitches on July 27, 2023 at KM 22, KM 23 and IDRRIP Refo areas.</p>
2. Donation/Utilization of Forest Products	Granting of request for wood materials	<p>Donated a total volume 543.33 bd.ft representing 39 pcs. of Common Hard Wood (CHW) to Iglesia ni Cristo (INC).</p>
C. Activities Undertaken in Support of IDRRIP	Patrol works and monitoring activities and maintenance of reforestation areas	<p>ISEP-TF and ENRO personnel conducted monitoring and maintenance activities at IDRRIP reforestation areas.</p> <p>Also, the following ISEP-TF Monitoring Checkpoints were able to produce seedlings, to wit:</p> <p>Abuan ISEP-TF MC - 1,500 pieces of Forest tree seedlings</p> <p>Disipon TSEP-TF MC - 1,546 pieces of Forest tree seedlings</p> <p>Marana ISEP TF MC - 1,676 pieces of Forest tree seedlings</p>
D. Other Related Activities		
1. Isabela Provincial Ecopark		<p>Clearing and beautification activities within the pathways of the Isabela Provincial eco-park is continuously and regularly conducted by the Job Order service providers.</p>

II. ENVIRONMENTAL MANAGEMENT DIVISION		
A. Vermicomposting Facility	Production of Organic Fertilizer thru Vermicomposting	<p>For this month, a total of 1,650 kgs. were produced and 100 kgs. were disposed to various requesting constituents, with a remaining stock balance of 29,251 kgs. as of July 31, 2023.</p> <p>Continuous collection of organic materials was also implemented.</p>
B. Production of Green Charcoal	Production of charcoal briquettes out of paper waste to minimize the impact of paper waste	For the month of July, 2023, the Environmental Management Division was able to produce a total of 10 kilograms of Charcoal briquettes.
C. Maintenance of Organic Vegetable/Herbal Garden and Ecological Center	Maintenance of OrganicVegetable Garden, Materials Recovery Facility,Provincial Ecology Center and ENR Office premises.	<p>Supervise by a Technical Personnel, Job Order service providers were hired to conduct maintenance of Provincial Ecology Center.</p> <p>Activities include brushing, cleaning, planting of vegetables and maintained organic vegetable garden. They were also able to assist in maintaining the cleanliness of the ENR Office premisses.</p>
D. Monitoring of Waste Disposal Facilities (SLF and RCA)	Pursuant to the provisions of the Local Government Code (RA No. 7160) and Ecological Solid Waste Management (ESWM) Act of 2000 (RA 9003), LGUs are mandated as the primary responsible bodies for the implementation and enforcement of ecological solid waste management system within their respective jurisdiction.	<p>The Provincial Government of Isabela thru the Environment and Natural Resources Office conducts monitoring and inspection of the final waste disposal facility of all municipalities/cities in the province</p> <p>The following sites were monitored, to wit:</p>

		<p>1. San Pablo Sanitary Landfill Facility</p> <p>The LGU of San Pablo is utilizing RCA while waiting for the completion of their SLF. LGU collects waste every Friday at Barangays Binguang and Ballacayu where most of their business establishments were located. On the part of the Municipal LGU, as their role, they are obliged to collect only the residual and special wastes. According to MENRO Palacay, the SLF construction was pending due to lack of funds, and hopefully will be completed. The RCA is approximately 5.94 kilometers away from the highway with the following descriptions to wit:</p> <p>Location: Brgy. Annanuman, San Pablo, Isabela</p> <p>Geographical Coordinates: 17°25’55.33” N, 121°50’13.56” E</p> <p>Total Land Area (ha.): 2.6 ha 7,200 cu.m-Cell 1</p> <p>Category: Category 1</p> <p>Type of waste received: Residual Waste and Special Waste</p> <p>Is there any vault for hazardous waste?: Yes</p>
		<p>2. Sta. Maria Residual Containment Area</p> <p>The RCA is located at Brgy. Villabuena beside the proposed SLF of the LGU. The RCA is approximately 3.73 kilometers away from the provincial highway, with the following description to wit:</p> <p>Location: Brgy. Villabuena-Residual Containment Area</p> <p>Geographical Coordinates: 17°29’ 26.72” N, 121°40’ 34.71” E</p> <p>Schedule of waste: 20 Barangay (Friday, Tuesday and Thursday) *Collection of waste depends on the request of barangay officials</p> <p>Type of waste received: Residual Waste</p> <p>Is there any vault for hazardous waste?: No</p> <p>Presence of waste pickers: Only two (2) waste pickers were allowed by the LGU to collect and sell the recyclable wastes.</p>

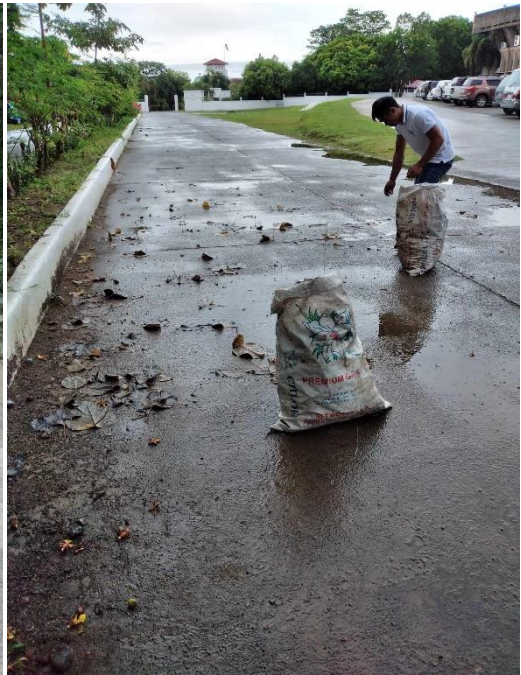
E. Other Related Activies		
1. Technical Support	<p>Personnel of this office extended technical assistance to requesting LGUs in their conduct of seminar on RA 9003 otherwise known as Ecological Solid Waste Management Act of 2000.</p>	<p>On July 11, 2023, For. Celia N. Badua and Ms. Gina D. Ruiz attended and served as Resource Speakers on Seminar re: RA 9003 otherwise known as Ecological Solid Waste Management Act of 2000 at San Manuel, Isabela.</p> <p>For. Celia N. Badua discussed the General overview of RA 9003, goal and motivation of the provision, institutional mechanism on Section 10. Role of LGU's in Solid Waste Management. She stressed the segregation and collection of solid waste that shall be conducted at the baranagay level specifically for bio-degradable, compostable, recyclable, and reusable waste. While the municipal is responsible for the collection of non-recyclable/residual, special and toxic waste only. Followed by the mandatory requirements for household, business establishments, the mandatory segregation of Solid Waste under Sec. 21, Sec 22 of RA 9003. She also talked about Recycling Program, The establishment of Material Recovery Facilities (MRF) under Sec. 33 of RA 9003 stipulate that there shall be established Material Recovery Facilities in every barangay or cluster barangays.</p> <p>Furthermore, she discussed the classication of solid waste as defined by RA 9003. Fines and penalties under section 11 ordinance no. 1 series of 2017 of the Province of Isabela, and she discussed the Exeucutive Order No. 33 series of 2020 directing all LGU's the strict enforcement of RA 9003 and enjoin the general public to be vigilant in reporting improper disposal of garbage, animal carcasses and other forms of uncleanliness to proper authorities and offenders shall be subjected to sanctions and penalties in accordance with existing Laws and Ordinances.</p> <p>In addition, Ms. Gina Ruiz discussed about the importance of segregation of waste and the production of organic fertilizer. She stressed about the segreagation at source is very important to practice in our daily life to protect and conserve our environment. Sixty percenyt (60%) of our solid waste are bio-degredeable, thus everybody will take responsibility for their own waste through segregation at source. Producing organic fertilizer helps our environment to be healthy, also it helps to have additional source of income by selling the product to constituents and helps to reduce the waste we produce everyday and it will only be residual wastes that will dump into the Sanitary Landfill. It is cost efficient and environmentally healthy. The barangay officials will take responsibility to lead the implementation of this Act.She also stressed to everybody that everyone will take responsibility to start in every household the segregation of waste. Bio-degradable waste will remain the responsibility of the barangay and only residual waste will be collected by the municipality or city.</p>

2. Wastes collection and segregation	Weighing of various recyclable, special/hazardous and residual wastes collected from the different offices within Capitol premises, brought to the ENRO Material Recovery Facility for final segregation and recovery of wastes with potential for diversion.	Wastes were segregated and compiled according to waste composition in kilograms, to wit: Residual- 571.5 kgs. ; Biodegradable- 194.1 kgs. ; Plastic Bottles- 33.1 kgs. ; Paper- 51.4 kgs. ; Carton- 56.6 kgs ; Food Wastes 23.9 kgs ; Bote- 9.5 kgs ; Hazardous waste- 9.9 kgs. and Lata- 0.6 kg. with a total of 950.60 kilograms .
III. MINERAL RESOURCES MANAGEMENT DIVISION		
A. Processing and Issuance of Permits	The ENR Office as the implementing arm of the Provincial Government of Isabela in ENR concerns, is tasked to approve applications for small-scale mining, sand and gravel, quarry, guano, gemstone gathering and gratuitous permits and for industrial sand and gravel permits not exceeding five (5) hectares, under RA 7942 otherwise known as the Philippine Mining Act of 1995.	<p>For the month of July, this office received One (1) Commercial Sand and Gravel (CSAG) Permit Application with corresponding administrative/ processing fees collected by the PTO amounting to Php 11,330.00.</p> <p>Field verification and site inspection of the above applied area, together with other areas, was conducted.</p>
B. Accreditation of Haulers	All haulers, traders, dealers and retailers of mineral/mineral products/by-products are required to be accredited by the Provincial Government through a Memorandum of Agreement with the Mines & Geo-sciences Bureau Region 02	<p>For this month, this office received and processed applications and issued Accreditation Permit, to Eight (8) haulers/ dealers/traders and retailers trading mineral products and by-products. Correspondingly, Twenty-two (22) accreditation stickers were issued for the conveyances and equipment registered.</p> <p>A total of Php 24,560.00 accreditation fees were remitted to PTO representing the permit application fees amounting to Php 20,160.00 and Php 4,400.00 for the stickers.</p>
C. Site Verification and Inspection of Mining/Quarry Sites	The ENR Office is responsible in field verification and evaluation of quarry areas to determine compliance of permit holders and/or operators to environmental laws, rules and regulations. It is a part of the process prior to the endorsement of the application to PMRB for deliberation.	<p>For this month, site inspection and verification of the following Applications for Commercial Sand and Gravel Permit were conducted :</p> <p>1. Mary Jane M. Samus - Mozzozzin Norte, Sta. Maria</p> <p>2. Lapogan Multi-Purpose Cooperative - Lapogan, Tumauni</p> <p>3. Roger P. Alejandro - Panecien & Kalabaza, Aurora</p> <p>All areas inspected are suitable for sand and gravel extraction. However, presence of scattered extraction pits and stockpile of aggregates were observed at the areas with on-going operations during inspection (Lapogan, Panecien, Kalabaza) and there were on-going construction of gabion-type flood control structures within 1-km distance from the applied areas (Mozzozzin Norte, Panecien).</p>

		<p>Recommendations based on the said findings and observations include establishment of landmarks indicating corner boundaries; prioritized extraction in the riverbed or nearest the river within applied areas; extraction pits should not be abandoned and must be covered immediately if no further extraction is intended for the specific area; and, extraction activities must be at least 500 meters away from the flood control.</p> <p>Findings of each applied areas were immediately conveyed to the respective Permit Applicants.</p>
D. Field Monitoring of Quarry Areas		
1. Regular field inspection and monitoring	<p>This activity is in line with the implementation of Provincial Ordinance No. 5, series of 2014, to effectively regulate the utilization and monitor extraction activities, ensuring all necessary environmental measures are implemented in the quarry areas.</p>	<p>For this month, continued site inspection, monitoring of compliances to necessary permits and supervision of personnel assigned to various quarry areas were implemented.</p> <p>Compliance to extraction measures such as extraction in the main river bed, no screening of materials in the main river bed policy and pre-payment of quarry taxes and fees were checked at the Municipalities of Aurora, Benito Soliven, Gamu, Reina Mercedes, Ilagan City, San Mateo, Sta. Maria, San Pablo, Tumauini, Cabagan, and Delfin Albano. At the same time, checking of Accreditation Permit of haulers and transporters of sand and gravel materials through random inspection of vehicles hauling and transporting sand and gravel materials. Inspected vehicles were already accredited. Operators with monitored extraction without pre-payments were notified for post-payment. All personnel assigned at their respective areas were present, while those with no operation were either assigned to other areas with on-going operations or reported to the Provincial Nursery and conducted nursery activities.</p>
2. Monitoring of extraction activities	<p>Also, monitoring reports on extraction of sand and gravel and other quarry resources shall serve as basis for the collection of taxes and other related fees by the Provincial Treasurer's Office.</p>	<p>For the month of July, a total of 38,191.00 cu.m. were monitored to have been extracted from the different quarry areas in the province. This represents 2,050.00 Ordinary Earth, 33,440.00 Mixed, and 2,701.00 Boulders; and with gross value amounting to Php 1,380,455.00 fees and taxes.</p> <p>Reports on extractions were accompanied by daily field monitoring reports and delivery receipts.</p> <p>Also, based on record, a total of Php 1,652,543.56 gross value of fees and taxes was remitted to PTO this month as prepayment to 44,552.18 cu.m. of Boulders, G1/S1, Ordinary Earth and Mixed gravel materials.</p> <p>Post-payment was also remitted for the monitored extracted aggregates with volume totalling to 22,008.43 cu.m. corresponding to Php 773,695.05 taxes and fees.</p>

E. Other Related Activities		
1. Attendance/ Participation re Invitataion to Meetings/Dialogues and Request for Technical Assistance Related to Mineral Resources Management		<p>July 13, 2023 - In response to letter invitation, personnel of this Office attended the One-Day Capacity Building Seminar for Small-scale Miners held at Barangay Hall of Barangay Caquilingan, Cordon, Isabela.</p> <p>Facilitated by MGB R02 personnel, the activity was also attended by the members of Caquilingan Miners Association, LGU Cordon, and Barangay Officials of Caquilingan. Presentations were on the requirements and processess in applying for Minahang Bayan, Small-scale Mining Contract and Mineral Processing Plan. Clarifications were also made on the identified mineralized area in Barangay Caquilingan which is inside the Exploration Permit of Cordillera Exploration Co., Inc. (CExCI). The small-scale miners were given advice that they request for consent from the company if they opt to apply the identified area within their barangay as Minahang Bayan.</p>
IV. OTHER PROGRAM/PROJECT/ACTIVITY		
1. PRDP related activities	As part of TWG, the ENR Office is in-charge in the Social and Environmental Safeguards (SES) concerns of various PRDP sub-projects	Attended the Local Public Transport Route Plan Formulation, Mentoring and Workshop at Piazza Zicarelli, Upi, Gamu, Isabela on July 5-7, 2023
2. Meetings, Seminars, Trainings and Workshops Attended		<p>July 18, 2023 - Attended NSMNP Marine Protected Area Committee Meeting virtually via Zoom</p> <p>July 20, 2023 - Attended BSP Lecture on Familiarization of Philippine Currencies at Amphitheater, Capitol Building, Alibagu, City of Ilagan, Isabela.</p> <p>July 20, 2023 - Personnel of this Office attended the Technical Working Group Meeting relative to the boundary dispute between LGUs Delfin Albano-Mallig-Quirino, facilitated by the Office of the Sangguniang Panlalawigan. The primary purpose of which is to discuss the next action of the TWG to determine the accurate metes and bounds of the territorial boundary disputes of the said municipalities.</p> <p>As a result of the discussions and points of clarifications, the TWG shall request for the assistance of the DENR to conduct field revalidation of boundaries. The DENR recommended that prior to actual field survey, LGU position papers with attached technical descriptions of their respective claimed boundaries must be provided. This will serve as basis to identify the specific disputed boundaries and will be revalidated in the field.</p>

		<p>July 20-21, 2023 - Attended NSMNP Protected Area Management Plan Updating Writeshop at Piazza Zicarelli, Gamu, Isabela</p> <p>July 20-21, 2023 - Attended Writeshop on the Updating of the NSMNP PAMB at Piazza, Upi, Gamu, Isabela.</p> <p>July 21, 2023 - Attended 2nd Quarter Consultative Meeting on the 2023 RRP thru CFW/T Implementation at Marco Paulo Hotel, Cauyan City, Isabela</p> <p>July 26, 2023 - Attended AAF Rattan Shared Service Facility Meeting at Blue Room.</p> <p>July 27-29, 2023 - Attended 2nd Quarter 2023 MMT Meeting at Zen Hotel, Santiago City, Isabela.</p>
<p>Consolidated by:</p> <div><div><p>(SGD.) <u>JESSA C. RIVERO</u> Community Development Assistant II</p></div><div><p>(SGD.) <u>IVY M. GATAN</u> Administrative Assistant I</p></div></div>		
<p>Certified Correct:</p> <div><p>(SGD.) <u>GERONIMO P. CABACCAN, JR.</u> Environment and Natural Resources Officer</p></div>		



Pictures taken during the conduct of clearing activities and beautification within the pathways of the Isabela Provincial eco-park for the month of July, 2023.





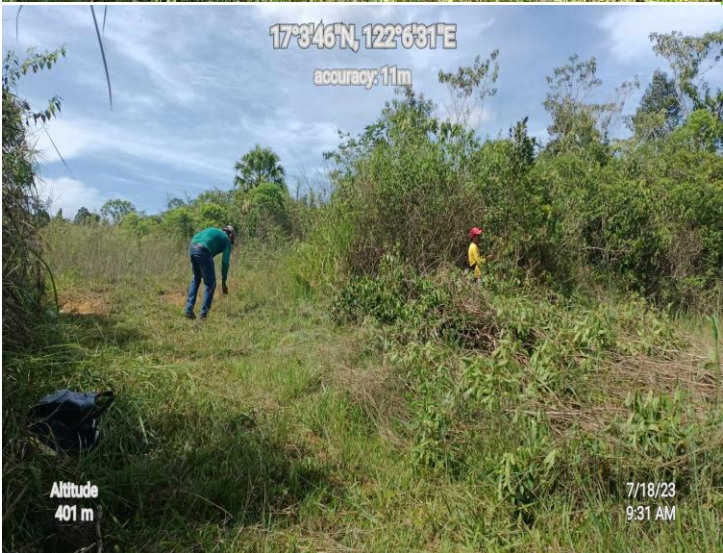
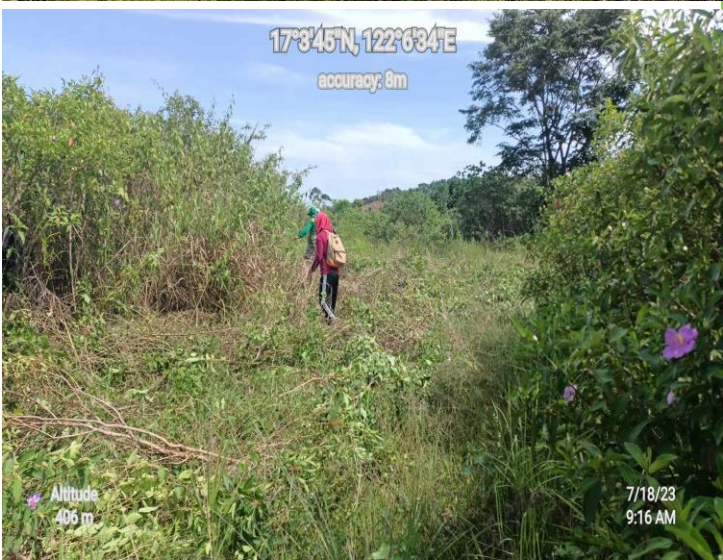
Photos taken during the apprehension of mostly abandoned illegally-harvested forest products at Km. 22 & 23 and IDRRIP, Refo areas, City of Ilagan, Isabela.





Pictures of the activities conducted at the ENRO Provincial Nursery for the month of July, 2023.





Conduct of site preparation relative to the tree planting activity at IDRRIP, Sitio Lagis, Disipon, City of Ilagan, Isabela.



ISEP-TF Operative Members during their conduct of Seedling Production Activities, which include wildlings collection, potting and transplanting.



Photos taken during the monitoring of San Pablo Residual Containment Area and the on-going construction of the Sanitary Landfill Facility



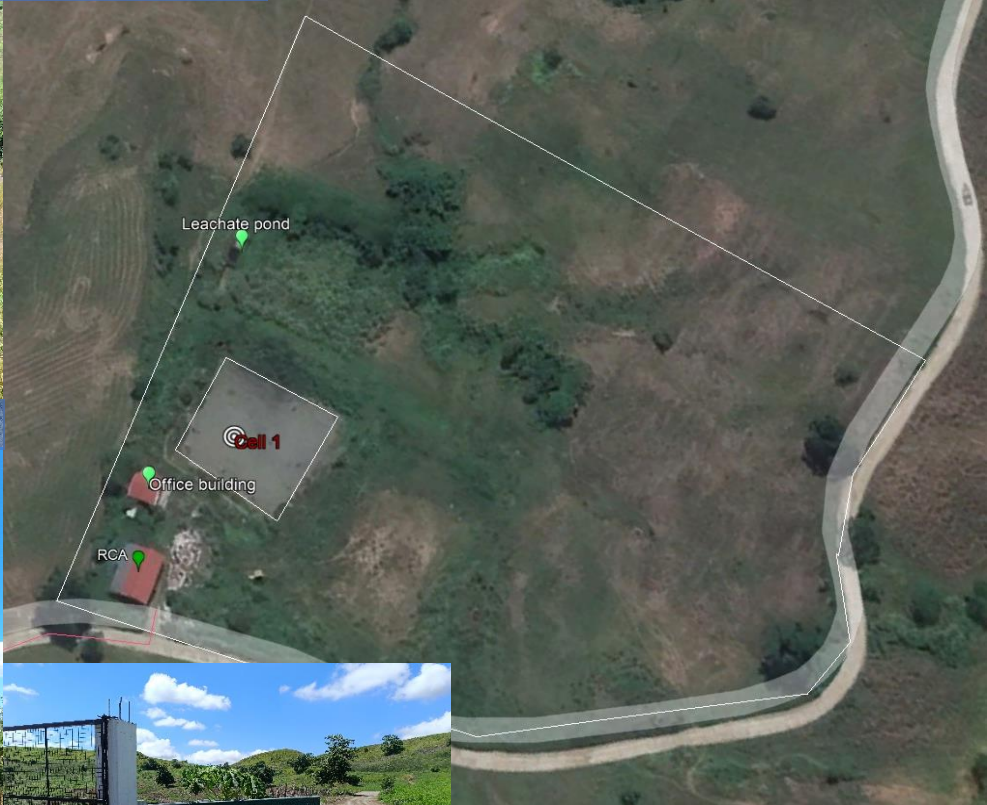
CELL



RESIDUAL CONTAINMENT AREA



LEACHATE POND



SEPTIC VAULT



Photos taken during the monitoring and inspection of Sta. Maria, Isabela Residual Containment Area



RESIDUAL CONTAINMENT AREA (RCA)



MATERIALS RECOVERY FACILITY (MRF)



ROTARY COMPOSTER



PROPOSED SLF

Photos taken during the conduct of seminar on RA 9003
at San Manuel, Isabela



Organic Fertilizer Production Thru Vermicomposting



Photos taken during the operation of the Residual Containment Area located at ENRO, Capitol Compound, Alibagu, City of Ilagan, Isabela



Maintenace of Provincial Ecology Center and Organic Vegetable Garden



Some of the photos daily submitted by ISEP-TF Operative Members assigned at the different quarry areas in the Province for the month of July, 2023.





ISEP-TF Operative members assigned at areas with no operation due to high water level reported to this Office and conducted of nursery activities.



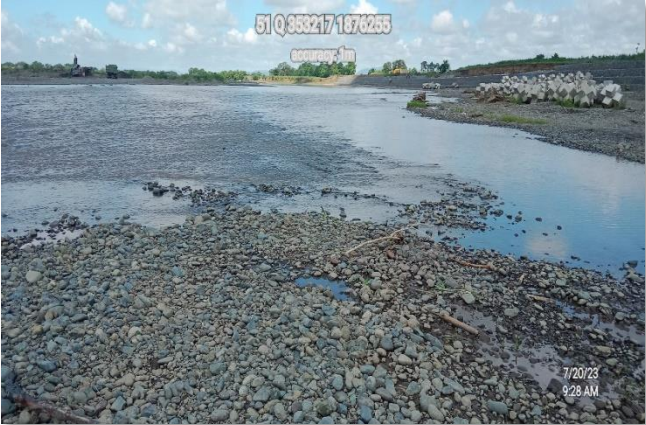
Photos during conduct of field verification and site inspection of areas applied for Commercial Sand and Gravel Permit for the month of July, 2023.



Area applied by Ms. Mary Jane P. Samus located at Mozzozzin Norte, Sta. Maria, Isabela



Area applied by Lapogan Multi-Purpose Cooperative located at Lapogan, Tumauni, Isabela



Area applied by Mr. Roger P. Alejandro located at Panecien and Kalabaza, Aurora, Isabela

Some of the photos taken during the Capacity Building Seminar for Small-scale Miners held at Barangay Caquilangan, Cordon, Isabela on July 13, 2023.

