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PROTECT WILDLIFE

QUARTERLY PROGRESS REPORT 9

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PREFACE

The United States Agency for International Development (USAID), through its Mission to the Philippines, has contracted DAI Global, LLC (DAI) as the implementing partner for the Protect Wildlife activity under Contract No. AID-492-TO-16-00002. The effective date of the contract is June 17, 2016 to December 11, 2020. DAI partners with four organizations—Orient Integrated Development Consultants, Inc.; Rare, Inc.; Conservation International Foundation; and Tanggol Kalikasan, Inc.—in implementing the activity.

The Contract requires DAI to submit Quarterly Progress Reports to USAID within 30 days from the close of each operating quarter. Quarterly Progress Reports include information about the task order and a summary of progress of activities in relation to the requirements of the task order, indicating any problems encountered and proposing remedial actions as appropriate. Each report articulates progress toward outcomes and highlights key achievements and problem areas that require senior management intervention.

Protect Wildlife Quarterly Progress Report objectives consist of four sections. The first section is composed of the success story for this quarter and an overview of the activity, with discussion on the overall Theory of Change and Monitoring and Evaluation (M&E) component. The second section provides summary and detailed updates on major activities undertaken in Manila; Palawan; Zamboanga City and Sulu Archipelago; General Santos City, Sarangani and South Cotabato in Region 12; and Aurora and the whole Region 3 for each of Contract Line Item No. (CLIN) 0001 composed of various Sub-CLINs. There are no activities under CLIN 002 yet. The last two sections provide details on management and operations and expenditures for the quarter and projected spending for the next quarter.

This Year 3 Quarter 3 report (Protect Wildlife Quarterly Progress Report 9) covers the period of January 1 to March 31, 2019. It provides a summary of accomplishments based on planned activities set out in the Protect Wildlife Quarterly Progress Report 8 for the period of January 1 to March 31, 2019.

ABBREVIATIONS

ADB	Asian Development Bank
BCC	behavior change communication
BIOFIN	Biodiversity Finance Initiative
BRAIN	Biodiversity Resources Access Information Network
C4C	Campaigning for Conservation
CENRO	Community Environment and Natural Resources Office
CLUP	comprehensive land use plan
CSO	civil society organization
CWT	combating wildlife trafficking
DA-BFAR	Department of Agriculture-Bureau of Fisheries and Aquatic Resources
DENR	Department of Environment and Natural Resources
DENR-BMB	DENR Biodiversity Management Bureau
DENR-BMB-NPD	DENR-BMB National Parks Division
DENR-BMB-WRD	DENR-BMB Wildlife Resources Division
DENR-FMB	DENR Forest Management Bureau
ECLOF	Ecumenical Church Loan Fund
ENIPAS	Expanded National Integrated Protected Areas System
FLUP	forest land use plan
FSSI	Foundation for a Sustainable Society, Inc.
GenSan	General Santos City
HLURB	Housing and Land Use Regulatory Board
IUCN	International Union for Conservation of Nature
IUU	illegal, unreported and unregulated
KAP	knowledge, attitudes and practices
LGU	local government unit
LWR	Lutheran World Relief
NAIA	Ninoy Aquino International Airport
NCIP	National Commission on Indigenous Peoples
NIPAS	National Integrated Protected Areas System
PAMB	Protected Area Management Board
PBC3	Partnership for Biodiversity Conservation Phase III
PBSAP	Philippine Biodiversity Strategy and Action Plan
PCSD	Palawan Council for Sustainable Development
PCSDS	Palawan Council for Sustainable Development Staff
PES	payment for ecosystem services
PHP	Philippine peso
PNP	Philippine National Police
SA	Strategic Approach
USAID	United States Agency for International Development
USG	United States Government
WEO	Wildlife Enforcement Officer
ZCWD	Zamboanga City Water District

COVER STORY

Zamboanga City balances ecotourism potential with conservation in Santa Cruz Islands



The white sand beach with a faint pinkish hue in Santa Cruz Islands is Zamboanga City's top attraction for tourists.

Off the coast of Zamboanga City, the Great and Little Santa Cruz Islands is an emerging example of how a local government seeks to strike a good balance between developing an ecotourism destination and managing a protected area.

Already a well-known weekend destination to locals, Santa Cruz Islands garnered international attention when it was included in *National Geographic's* "21 Best Beaches in the World" in 2017, highlighting its major draw: the pinkish hue of its beach due to millions of crushed red pipe organ coral mixed with the white sand.

Beyond its famous beach, Santa Cruz is also known for its ecological, socioeconomic and cultural significance. The biodiverse mangroves, coral reefs and mudflats in the islands are home to rich terrestrial and marine life—including sea turtles, stingless jellyfish, flying foxes and migratory birds—and are crucial for fisheries and livelihoods in the area. On the year that Santa Cruz was featured on *National Geographic*, the Zamboanga City government collected more than PHP 1.25 million in entrance fees alone from more than 62,000 visitors. The islands also host sacred grounds and burial sites that are culturally important for the Sama Banguigui and other indigenous groups residing in the islands.

Recognizing the value of these islands in the region, the national government declared Santa Cruz as a protected landscape and seascape under the National Integrated Protected Areas System (NIPAS) Act of 1992. The same is reiterated under the Expanded NIPAS Act of 2018 that classifies Santa Cruz as a national

park and mandates a holistic plan to conserve and protect the islands' natural heritage. With this classification, the 3,318.26 hectares of protected lands and waters in Santa Cruz and the biodiversity within it are currently managed by the Zamboanga City government through an agreement with the Department of Environment and Natural Resources (DENR).

With the protected area management plan for Santa Cruz expiring, USAID's Protect Wildlife activity came at a fitting time to provide technical assistance and to promote a holistic approach for a highly participatory and responsive process of coming up with a new five-year management and development plan. The 2019-2023 plan is envisioned as a road map for achieving the collective vision of Santa Cruz stakeholders: "An island ecosystem that is responsibly and sustainably managed, developed and protected, under the leadership of the local government in partnership with stakeholders, for the conservation and preservation of the biological and physical diversities of the environment and for social and economic benefits."



A boat tour along rich mangroves and a jellyfish lagoon is one of the low-impact tourism activities one can enjoy in Santa Cruz.

To achieve this long-term vision, there were "lots of things that need to be updated [in the plan] to provide a solid set of management prescriptions for the purpose of conserving Santa Cruz Islands, [while] at the same time increasing its ecotourism potentials and implementing ecotourism programs in support of the protected area," as explained by [REDACTED], biodiversity conservation advisor of Protect Wildlife. The activity facilitated the series of management planning workshops for the technical working group composed of the Santa Cruz protected area management board, the Zamboanga City government, the DENR, civil society and universities. The highly comprehensive planning process involved identifying and developing the different components and thematic areas that are vital for managing the islands. These include biodiversity conservation, low-impact ecotourism, zoning, land and resource use, environmental law enforcement, behavior change campaigns, conservation financing, climate change and disaster resiliency, cultural preservation, sustainable livelihoods, and gender and development.

During the planning, management zones in Santa Cruz were updated to clearly define areas for conservation, ecotourism and other uses. Little Santa Cruz Island and its surrounding waters are designated as strict protection zone, with special use subzones for its sandbar, lighthouse, military detachment, and the biodiversity monitoring and learning center. Great Santa Cruz Island and its surrounding waters are classified as multiple-use zone, with sub-zones for recreation, community settlements, and sustainable land and water

use zones in mangrove areas and beach forests. The old buffer zone was designated as a marine production zone.

Protect Wildlife also complemented the planning process with technical activities that support improved conservation and enforcement actions in Santa Cruz. These include the following:

- Mapping of ecotourism sites, such as snorkeling and diving spots, eco-trekking trails and lagoon tour routes, as well as of strategic locations for installation of buoys;
- Training and deputation of 28 community members in Santa Cruz as Bantay Kalikasan (park rangers) who will serve as force multipliers for improved enforcement of environmental laws in the protected area;
- Enhancement of protocols of inter-agency coordination and cooperation for enforcing environment and biodiversity-related laws;
- Launch of “Protect Our Paradise” campaign to promote positive behaviors for tourists visiting the protected area;
- Assessment of opportunities for a payment for ecosystem services (PES) scheme to be established in Santa Cruz; and
- Development of a manual of operations for the protected area management office that outlines the systems and processes for implementing the management plan.

On February 20, 2019, the protected area management board approved the new management and development plan for Santa Cruz and was later presented to the Zamboanga City Mayor and visiting officials from USAID/Philippines on March 6, 2019. At the presentation of the management plan, City Administrator Marie Angelique Go encouraged her colleagues at the city office and all those present to support the implementation of the new plan. “Now, we have to get down to business and really see to it that this plan will be implemented, and that is the challenge to our respective offices,” she said.

Immediately, the city government expressed its commitment to support and sustain the implementation of the plan. The City Local Finance Committee was instructed to ensure a separate annual budget for management and conservation activities in Santa Cruz Islands, including possible funding for priority activities. Also, the City Council committed to establish a protected area fund and to upgrade tourist fees in the islands. Hopefully, these commitments will ensure continuous funding for Santa Cruz partners and stakeholders to properly implement sustainable ecotourism programs and environmental conservation initiatives in the next five years.

“The presence of USAID has tremendously helped us in terms of policymaking, [and] in terms of needed inputs, technical assistance and capacity building. We truly value the partnership,” Go added.

In the coming months, Protect Wildlife will continue to work with the protected area management board, the city government, the DENR and all partners to develop an action plan to facilitate the initial implementation of the management and development plan for Santa Cruz Islands.

I INTRODUCTION

The Protect Wildlife activity supports initiatives to align conservation policy with on-the-ground wildlife management actions and enforcement. The activity works in target landscapes to reduce threats to biodiversity, reduce poaching and use of illegally harvested wildlife and wildlife products, and improve ecosystem goods and services for human well-being.

Protect Wildlife fits within the USAID Biodiversity Policy (USAID 2014) that “builds upon the Agency’s long history of conserving a global biological heritage for current and future generations and reflects a deep understanding of the role that healthy natural systems play in achieving the Agency’s human-development goals.” The activity is the first USAID/Philippines initiative to combat wildlife trafficking and directly implement the U.S. Government’s Eliminate, Neutralize and Disrupt Wildlife Trafficking Act of 2016. Protect Wildlife supports the Philippines’ current policies and programs on biodiversity conservation and reduction of wildlife trafficking under the National Integrated Protected Areas System (NIPAS) Act and the Wildlife Resources Conservation and Protection Act.

Protect Wildlife’s principal counterpart is the DENR-Biodiversity Management Bureau (DENR-BMB) in coordination with the DENR-Forest Management Bureau (DENR-FMB), Department of Agriculture-Bureau of Fisheries and Aquatic Resources (DA-BFAR), the National Commission on Indigenous Peoples (NCIP), and various national-level enforcement law agencies. At the local level, Protect Wildlife works directly with DENR Regional Offices; Provincial and Community Environment and Natural Resources Offices (PENROs and CENROs); and provincial, city and municipal local government units (LGUs), as well as local offices of DA-BFAR and NCIP. In Palawan, the activity coordinates with the Palawan Council for Sustainable Development Staff (PCSDS). At various levels, the activity works with non-government and civil society organizations (NGOs and CSOs); colleges and universities; and land and resource managers, such as ancestral domain and tenure holders and fisherfolk and coastal community organizations.

I.1 ACTIVITY OVERVIEW

As a megadiverse country, the Philippines claims to be the “center of the center” of nearshore marine diversity, including corals and reef fishes. It is home to approximately 1,100 terrestrial vertebrates and five percent of the world’s flora, a significant proportion of which is endemic. However, much of these biodiversity assets continue to face risks and pressures from both natural and human interventions, such as land conversion for agriculture and settlements; illegal, unregulated and unreported harvesting; and destructive mining and quarrying. The value of biodiversity and the ecosystem goods and services they provide are not effectively communicated to local stakeholders. Capacities are limited with unrealized economic incentives and inadequate financial support to manage wildlife habitats and regulate uses in highly diverse areas.

TARGET SITES

The activity strives to target wildlife trafficking hotspots and local stakeholders with initiatives to improve local capacities; incentivize communities and LGUs; leverage financing support; and deepen knowledge, attitudes and behaviors for the effective management, regulation and enforcement of wildlife habitats and wildlife trafficking transshipment points such as ports. Protect Wildlife works across geographies in the Philippines to address wildlife trafficking transshipment, but implements a more comprehensive ecosystem-based approach in the biologically significant areas presented on the next page:

- **Palawan:** From the activity's Puerto Princesa City office, Protect Wildlife implements technical activities in threatened terrestrial, marine and coastal areas wildlife habitats in forest lands and protected areas, such as the Mount Mantalingahan Protected Landscape, Tubbataha Reefs Natural Park, Rasa Island Wildlife Sanctuary, Ursula Island Game Refuge and Bird Sanctuary, and mangroves in Palawan.
- **Zamboanga City-Sulu Archipelago:** From offices in Zamboanga City and Tawi-Tawi, the activity implements activities in forest lands, including foreshore and mangrove areas; and protected areas, such as Pasonanca Natural Park and Great and Little Santa Cruz Islands Protected Landscape and Seascape.
- **General Santos City (GenSan), Sarangani and South Cotabato in Region 12:** From its office in General Santos City, the activity implements activities in forest lands and protected areas in Mount Matutum Protected Landscape, Sarangani Bay Protected Seascape and Allah Valley Protected Landscape. Mount Busa Key Biodiversity Area in Sarangani and South Cotabato is also one of the target sites in Region 12.
- **Region 3, with selected sites in Aurora, Nueva Ecija and Bataan Provinces:** From its Manila office, Protect Wildlife started planning the implementation of region-wide and site-specific activities in Aurora Memorial National Park, Mount Mingan and the Pampanga-Bataan side of Manila Bay. The activity will open its site office in Palayan City, Nueva Ecija in May.

The Manila office maintains the national advisors and specialists who lead the development of the activity and Strategic Approach (SA) work plans; provide technical support to field activities; and work with national-level agencies, Manila-based private and non-government organizations, and relevant donor-funded projects.

2 MONITORING, EVALUATION & LEARNING

Protect Wildlife presents a status update on progress achieved this quarter within each Strategic Approach of the activity's Theory of Change, and progress against Year 3 and cumulative contract deliverable targets and USAID Economic Growth targets.

2.1 THEORY OF CHANGE STATUS REPORT

Protect Wildlife's work in target sites is guided by the following Theory of Change:

IF national and local stakeholders understand the economic value and sociocultural significance of habitats and wildlife species, including the ecosystem services that they provide in conservation areas, as a combined result of:

- **Improved** and positively changed communities' knowledge, attitudes and behaviors toward wildlife and biodiversity conservation;
- **Increased** public and private sector investments and increased revenues from environment and natural resources-related enterprises to finance conservation, support to biodiversity-friendly and sustainable livelihoods and enterprises for local communities in priority sites;
- **Improved** conservation competencies of governance bodies, local government units, civil society organizations, and landowners, tenure and domain holders in managing and regulating land and resource uses in landscapes of habitats and wildlife species;
- **Improved** capacities of higher education institutions to generate scientifically rigorous evidence and knowledge essential for conservation and for enriching curricula and outreach programs; and
- **Enhanced** capacities of national and local enforcement entities to identify, capture, prosecute and adjudicate wildlife crimes and habitat losses,

THEN, Protect Wildlife can significantly contribute to the reduction of threats to habitats and to wildlife species,

THEREBY, directly and indirectly enhancing capacities of various threatened habitats of wildlife species, as part of larger ecosystems and seascapes-landscapes, to supply and provide ecosystem services that benefit human well-being.

Protect Wildlife operationalizes the Theory of Change via five SAs and their corresponding results and targets:

Strategic Approach 1: Improve attitudes and behavior toward biodiversity and its conservation in target areas at a statistically significant level, with these five-year targets:

- 100 people trained to lead behavior change campaigns
- 25 behavior change communication (BCC) campaigns implemented
- 300,000 people reached by BCC campaigns

Strategic Approach 2: Intensify financing from private and public sectors and internally generated revenues for biodiversity conservation, with these five-year targets:

- US\$500,000 revenues generated from the sale of ecosystem services in target sites
- 100 payments for ecosystem services (PES) or tourism initiatives
- US\$5 million in public-private investments in Protect Wildlife anti-poaching and trafficking efforts

Strategic Approach 3: Improve biodiversity conservation competencies of local government units, governance bodies, civil society organizations, and land and resource management units, with these five-year targets:

- 200 LGU staff trained in participatory planning for integrated conservation and development
- 2,500 community members trained in planning and implementation of integrated conservation and development
- 200 LGU staff trained, certified and formally deputized as Wildlife Enforcement Officers (WEOs) by government agencies
- 500 community members trained and certified as WEOs by government agencies

Strategic Approach 4: Enhance capacities of universities to advance biodiversity conservation education, research, monitoring and innovation, with these five-year targets:

- 25 university-supported research initiatives implemented at Protect Wildlife sites
- 10 universities developing conservation curricula with support from Protect Wildlife

Strategic Approach 5: Enhance competencies of national and local government agencies in enforcing biodiversity conservation-related laws and policies, with these five-year targets:

- 1,000 government staff trained in combating wildlife and environmental crime
- 50 new or revised laws and regulations adopted to combat wildlife crimes
- 1,000 confiscations, seizures and arrests resulting from capacity building provided by Protect Wildlife.

This quarter, Protect Wildlife addressed the remaining lower intermediate result, “science-based information and technology-based tools produced,” with the following activities:

- Development of Biodiversity Resources Access Information Network (BRAIN) in Palawan,
- Mapping and spatial analysis to support protected area planning and forest land use planning activities for localizing the Philippine Biodiversity Strategy and Action Plan (PBSAP) and harmonizing the land use data of DENR-BMB and DENR-FMB,
- Resource valuation and cost-revenue analysis in PES development as piloted in Region 12, and
- WildALERT development.

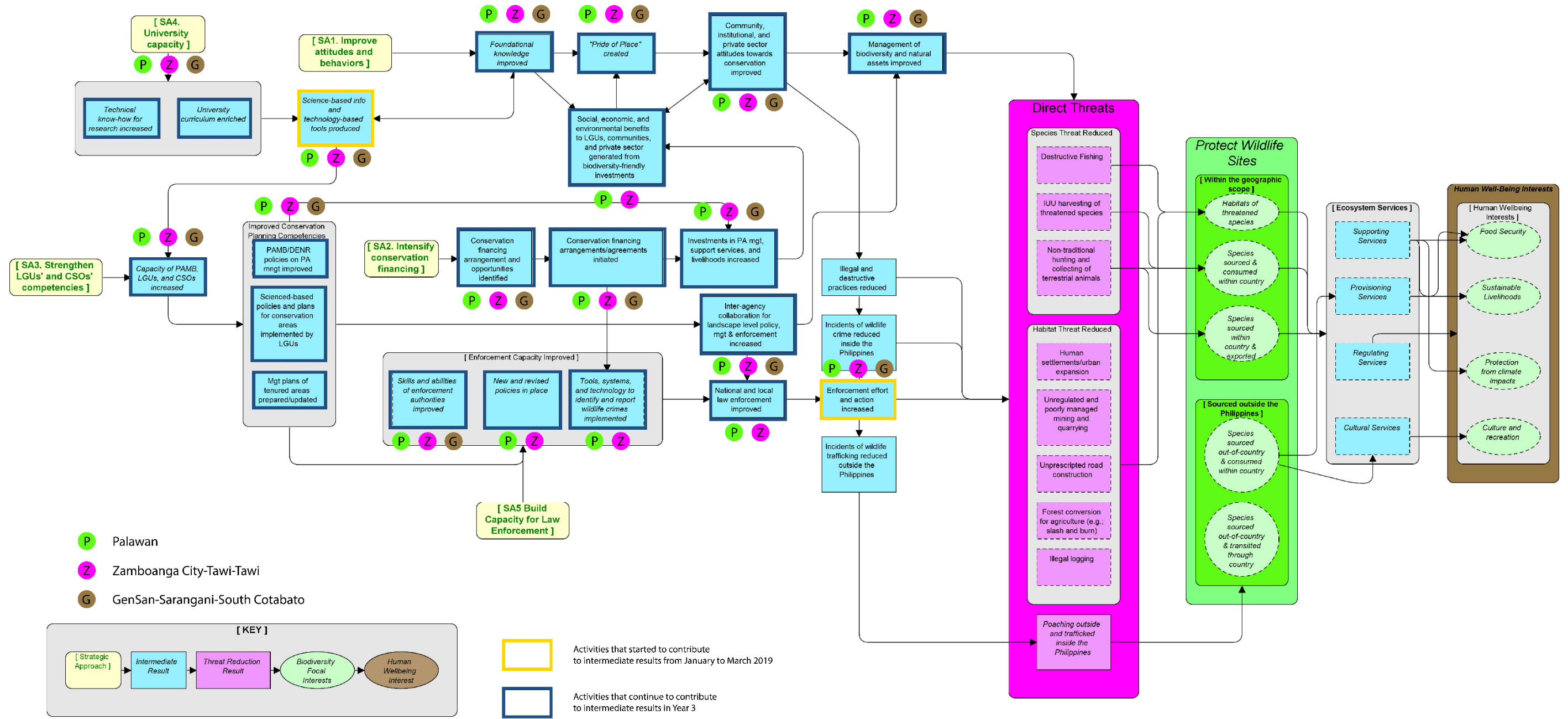
As shown in Figure 1 and with the new intermediate result addressed, Protect Wildlife’s activities have tackled all the lower intermediate results. Activities in Region 12 (Sarangani and South Cotabato) and partly in Tawi-Tawi have started to add toward the cumulative Theory of Change intermediate results. The only remaining intermediate results in the Theory of Change chains are those that belong to higher intermediate results (the last column of intermediate results in Figure 1). Protect Wildlife intends to meet these higher intermediate results through a more organized and intentional integration of SA activities to show that:

- management of biodiversity and natural assets are improved in target conservation areas,
- illegal and destructive practices are reduced,
- incidents of wildlife crime are reduced inside the Philippines,
- enforcement effort and action are increased, and
- incidents of wildlife trafficking are reduced outside the Philippines.

With the continuing capacity building at all levels of enforcement units—including national, regional, provincial, protected areas, local government units and communities—Protect Wildlife believes that there is “increase in enforcement effort and action” as evidenced by various reports on apprehensions from the activity sites.

The resolutions issued on February 1, 2019 by the Protect Wildlife Project Steering Committee for creating two Technical Working Groups to develop and pilot processes for harmonizing land use data for integrated landscape planning and for integrating all DENR enforcement manuals, protocols and processes will promote a holistic approach to combating wildlife trafficking. The activity’s support to the resolutions will contribute to scaling up ongoing local efforts toward the higher intermediate results. Protect Wildlife’s processes for incorporating land uses of public domains, ancestral domains, and coastal and marine areas as part of the comprehensive land use plan (CLUP) support the policy requirements of the DENR, Department of Interior and Local Government, and Housing and Land Use Regulatory Board (HLURB) to the LGUs’ land and resource use planning activities. The localization of PBSAP in selected provinces will also institutionalize processes and local buy-ins for a more integrated approach (including BCC, enforcement, financing, research and land use management) to biodiversity conservation at the provincial level.

FIGURE 1: OVERALL PROTECT WILDLIFE THEORY OF CHANGE RESULTS CHAIN HIGHLIGHTING INTERMEDIATE RESULTS BEING ACHIEVED FROM SA-SPECIFIC AND INTER-SA ACTIVITIES



2.2 MONITORING AND EVALUATION STATUS REPORT

Contract Deliverables

Protect Wildlife achieved significance advances this quarter under each Strategic Approach:

- **Strategic Approach 1: Behavior Change Communication.** Two site-level campaigns were launched in Palawan: (a) Tubbataha Reefs Natural Park direct mail and social media campaign, and (b) Pride campaign in Brooke's Point with a blue-naped parrot mascot named Makmak. These site-level campaigns reached a total of 10,199 individuals composed of Facebook users and diving trip operators in Tubbataha Reefs; and schoolchildren, teachers and government workers in Brooke's Point who participated in the campaign to protect the municipality's flagship species. The number of local campaigns is expected to be boosted in succeeding quarters when Campaigning for Conservation (C4C) graduates implement their BCC proposals. A BCC writeshop held in February 2019 yielded seven campaign proposals for Palawan and 12 proposals for Region 12.

The national combating wildlife trafficking (CWT) campaign of DENR-BMB and Protect Wildlife at the three terminals of Ninoy Aquino International Airport (NAIA) in Manila was continued. Billboards in Terminals 2 and 3 remained until March 22, 2019, while the billboard in Terminal 1 will run until April 9, 2019. This campaign is estimated to have reached 1,079,793 people.

- **Strategic Approach 2: Conservation Financing.** PES revenue collections that was reported for the quarter amounted to US\$6,590.09. Collections were mainly from three PES schemes: fees from Brooke's Point Water Works Services and tourism fees in Mount Mantalingahan Protected Landscape and Bud Bongao Eco Forest Park. The resolution of the Pasonanca Natural Park management board recognizing the watershed protection budget of the Zamboanga City Water District (ZCWD) as PES will allow the achievement of the PES revenue target at the end of Year 3. In Region 12, Protect Wildlife commenced its support to 28 PES initiatives. There exists other PES opportunities in Region 12 that will enable the activity to meet its target for Year 3.

Protect Wildlife and Sunlight Foods Corporation formalized their partnership on February 4, 2019. Sunlight Foods Corporation committed an amount of US\$190,476 (PHP 10 million) in the form of training and technical assistance and quality planting materials, mainly of purple yam. The company offered to sign marketing agreements with upland farmers in Mount Mantalingahan. The commitments that Protect Wildlife has generated in Year 3 to support community livelihoods and enterprises has exceeded its target.

- **Strategic Approach 3: Conservation and Governance.** This quarter, seven staff members of the local government unit of Bongao in Tawi-Tawi completed the series of trainings related to conservation, development and management of Bud Bongao Eco Forest Park. Ninety community members from the four LGUs in Mount Matutum also completed the required modules on integrated conservation and development. The ongoing training of LGU staff in El Nido and Puerto Princesa City in Palawan, Sarangani Bay in Region 12, and Isabela City in Basilan will enable the activity to achieve Year 3 training targets.

In southern Palawan, 24 barangay captains from Mount Mantalingahan underwent training on community-based environmental law enforcement training. They will be proposed for deputation by PCSD as WEOs. Similar training that will lead to the deputation of LGU and community members as WEOs are programmed for next quarter in Mount Matutum and Allah Valley in Region 12.

- **Strategic Approach 4: Conservation Research.** This quarter, Protect Wildlife awarded support to six graduate research studies on various species and habitats, most of which are under threat. Among the species for study are native metallophytes, pteridophytes, Rafflesiaceae, Philippine teak and Philippine pit viper. This brings to nine the total number of research initiatives supported by the activity in Year 3. Protect Wildlife continues to support ongoing researches on sandfish (Western Philippines University), Philippine pangolin (PCSDS, Katala Foundation and Palawan State University), medicinal plants in Mount Matutum (Mindanao State University-GenSan), and the expanded ranger and community perception surveys in Palawan and Sarangani. It also continues to work with university and CSO partners in the finalization of the design of other conservation-oriented research in order to meet Year 3 and life-of-project targets.
- **Strategic Approach 5: Wildlife Law Enforcement.** This quarter, Protect Wildlife continued with its enforcement training activities, adding a total of 129 government staff trained during the quarter. These consist of staff of regulatory, licensing and enforcement units of DENR regional offices, Police Environment Desk Officers of the Philippine National Police (PNP) Criminal Investigation and Detection Group, and community-based environmental law enforcement training for barangay officials of Mount Mantalingahan Protected Landscape. With this accomplishment, Protect Wildlife substantially exceeds its life-of-project training targets.

Outcome Targets

- **EG 10.2-2: Number of hectares of biologically significant areas under improved natural resource management as a result of USG assistance.** No accomplishments are reported for the quarter. The zoning of Sarangani Bay Protected Seascape (210,883 ha), El Nido-Taytay Managed Resource Protected Area (89,135 ha), and Cleopatra's Needle Critical Habitat (38,639) are ongoing. The expected completion of the zoning of Sarangani Bay Protected Seascape next quarter will allow the activity to meet its Year 3 and life-of-project targets.
- **EG 10.2-3: Number of people with improved economic benefits derived from sustainable natural resource management and/or biodiversity conservation as a result of USG assistance.** Four farmers' associations in Mount Mantalingahan, which have a total of 104 members, are starting to benefit from livelihood activities that are being provided through Protect Wildlife's partnerships with Lutheran World Relief (LWR) and Sunlight Foods Corporation. With the formal approval of the management plans of the Pasonanca Natural Park and the Santa Cruz Islands, implementation actions have commenced to improve the management and to sustain the ecosystem services from these protected areas. Among those who are to immediately benefit from the implementation of the management plans are households that are directly serviced by the Zamboanga City Water District (53,391 households), households of 119 forest guards who will continue to be employed under the PES arrangements for Pasonanca, and the community (79 households) in Santa Cruz Islands who are to gain from improved management of fishery resources and increased tourism in the island. In Brooke's Point, the approval of its forest land use plan (FLUP), the zoning of the Mount Mantalingahan Protected Landscape, and the committed investments in watershed rehabilitation will also bring significant benefits to 3,603 households serviced by the LGU waterworks system and the still undetermined number of farmer-households who are deriving irrigation also from these watersheds. All these households translate to 286,480 persons benefitted.
- **EG 10.3-4: Amount of investment mobilized (in US\$) for sustainable landscapes, natural resource management and biodiversity conservation as supported by USG assistance.** This quarter, Protect Wildlife leveraged US\$320,276.89 (PHP 16.718 million) from partner national agencies, LGUs, protected area management offices, private sector groups, universities and communities for the conduct of joint or co-funded activities. About 60 percent of the investment leveraged is from Sunlight Foods Corporation. For Year 3, Protect Wildlife has already leveraged

US\$7,213,184.81, which exceeds its life-of-project target. A large share of these investments supports livelihoods and community enterprises.

Output Targets

- **EG 10.2-4: Number of people trained in sustainable natural resources management and/or biodiversity conservation as a result of USG assistance.** Protect Wildlife trained a total of 236 persons. About half of these were trained on enforcement while the rest went through modules on participatory planning and integrated conservation and development. Protect Wildlife has exceeded its target for Year 3.
- **EG 10.2-5: Number of laws, policies, or regulations that address biodiversity conservation and/or other environmental themes officially proposed, adopted or implemented as a result of USG assistance.** One management board resolution on PES for Pasonanca Natural Park and three resolutions endorsing the adoption of municipal FLUPs in southern Palawan were obtained during the quarter. The municipal council resolutions from Brooke's Point and Sofronio Española legitimize their respective FLUPs and its implementation. Protect Wildlife continues to support a number of national and provincial policy initiatives to meet its Year 3 target.

Tables 1 and 2, respectively, provide a more comprehensive presentation of accomplishments per contract deliverable and outcome and output targets.

TABLE 1: CONTRACT DELIVERABLES: YEAR 2 ACCOMPLISHMENTS (as of March 31, 2019)

INDICATORS	TARGETS		ACCOMPLISHMENTS			NARRATIVE PROGRESS	
	LOP	Year 3 (Adjusted) ¹	Year 3, Quarter 3	Year 3	Inception to Date		
SA 1							
1.1	People trained to lead behavior change campaigns	100	53	-	54 Male: 27 Female: 27	101 Male: 45 Female: 56	The LOP target was achieved in November 2018.
1.2	Behavior change campaigns implemented	25	10	2 (site-level)	7 (6 site-level; 1 national)	11 (10 site-level; 1 national)	<p>Two site-level campaigns were launched during the quarter:</p> <ol style="list-style-type: none"> Tubbataha Reefs Natural Park direct mail and social media campaign Pride campaign in Brooke's Point with a blue-naped parrot mascot (Makmak) <p>BCC proposal writeshops held during the quarter yielded 7 campaign proposals for Palawan and 14 proposals for Region 12. These are being reviewed and refined for implementation starting next quarter.</p> <p>The DENR-BMB and Protect Wildlife national CWT campaign in airports continued. Billboards in three terminals of Ninoy Aquino International Airport (NAIA) in Manila remained until March 22, while one billboard in NAIA Terminal 1 will run until April 9, 2019.</p> <p>The concept design of a traveling exhibit is being developed by The Mind Museum. Expected launch is on November 2019.</p>
1.3	People reached by behavior change campaigns	300,000	69,740	12,835 (site-level) 1,079,793 (national)	52,121 (site-level) 3,554,793 (national)	56,381 (site-level) 3,554,793 (national)	The Tubbataha Management Office's website and Facebook and Instagram platforms, which have over 15,000 followers, have stronger conservation messages for the protection of Tubbataha Reefs. In addition, dive operators at the heritage site receive direct emails of postcards reminding them to observe and promote sustainable practices among their divers and tourists.

¹ Includes targets not met in Years 1 and 2

INDICATORS	TARGETS		ACCOMPLISHMENTS			NARRATIVE PROGRESS
	LOP	Year 3 (Adjusted) ¹	Year 3, Quarter 3	Year 3	Inception to Date	
						<p>The pride campaign in Brooke's Point started with the education of schoolchildren, teachers and government workers about the importance of preserving the blue-naped parrot found in Mount Mantalingahan. Campaign materials included flashcards, selfie props, notebooks, T-shirts, button pins and caps. A puppet show, poster making contest and activity book sessions were held. A billboard was installed and a Facebook page was created, which has reached over 7,000 people. The campaign was continued during Brooke's Point's Kaniyog'n Festival and Agri-World event attended by local residents, farmers and government staff. This conservation campaign will continue in schools and barangays following the release of PHP 200,000 funding support from the local government's 2019 supplemental budget.</p> <p>The PES campaign in Brooke's Point that involved the attachment of PES flyers to water bills of water users connected to the LGU-managed water system reached 2,636 households.</p> <p>The 6 CWT campaign billboards installed at NAIA terminals had an audience reach of 1,079,793. The passenger volume for each NAIA terminal was determined by getting the actual number of passengers between December 22 and April 9 based on the statistics submitted by the contracted advertising agency. A recognition rate was established to get the estimated people reached. Below is the assigned recognition rate per terminal:</p> <ol style="list-style-type: none"> 1. For Terminal, the 21% recognition rate for concourse will be applied, as the billboards placed in the terminal are located along

INDICATORS	TARGETS		ACCOMPLISHMENTS			NARRATIVE PROGRESS	
	LOP	Year 3 (Adjusted) ¹	Year 3, Quarter 3	Year 3	Inception to Date		
						<p>the concourse of the arrival and departure areas.</p> <p>2. For Terminal 2, a billboard was placed on top of a retail store, but the billboard is more visible from the departure gate than to the customers lined up at the retail store, making the recognition rate of 9% more appropriate.</p> <p>3. For Terminal 3, the billboard placed above check-in counters are highly visible and the waiting lines mimic that of customer lines at retail stores. A recognition rate for retail outlets of 20.6% is more applicable in this case.</p>	
SA 2							
2.1	Revenue generated from the sale of ecosystem services in target sites	US\$500,000	US\$148,484	US\$6,590.09 ²	US\$24,525.12	US\$38,626.03	<p>PES collections reported for the quarter:</p> <ol style="list-style-type: none"> Brooke's Point Water Works Services: US\$2,884.16 (PHP 150,553.40) Mount Mantalingahan Protected Landscape Fund: US\$640.80 (PHP 33,450.00) Bud Bongao Eco Forest Park: US\$3,065.13 (PHP 160,000.00) <p>On February 15, 2019, the management board of Pasonanca Natural Park issued a resolution (Resolution No. 06-2019) recognizing the expenses of Zamboanga City Water District for the protection of Pasonanca watershed as a form of PES. The amount will be reported as PES revenues starting next quarter. The water district allocates about US\$383,000 or about PHP 20 million per year for watershed protection.</p>
2.2	Payment for ecosystem services or tourism initiatives supported in target sites	100	29	28	28	37	<p>Protect Wildlife started assistance to 28 PES initiatives in Region 12. New PES partners are:</p> <ol style="list-style-type: none"> Polomolok Water District (South Cotabato) Malungon Water District (South Cotabato)

² Exchange rate of US\$1=PHP 52.20 was used.

INDICATORS	TARGETS		ACCOMPLISHMENTS			NARRATIVE PROGRESS	
	LOP	Year 3 (Adjusted) ¹	Year 3, Quarter 3	Year 3	Inception to Date		
						<p>3. Tupi Water District (South Cotabato)</p> <p>4. Alabel LGU (Sarangani) for both its Level III Water System and Septage Treatment Facility</p> <p>5. General Santos City Water District</p> <p>6. Rural waterworks and sanitation associations (RWASAs) in General Santos City (18) and in Tampakan, South Cotabato (4).</p> <p>The 18 RWASAs of General Santos City are the biggest among the city's 156 RWASAs. These water utilities have undergone two training modules on PES development.</p>	
2.3	Public and private investments in Protect Wildlife anti-poaching and trafficking efforts	US\$5 million	US\$1,310,000	US\$190,476	US\$6,880,476	US\$7,022,476	<p>The agreement with Sunlight Foods Corporation (PHP 10 million or US\$190,476) was signed on February 4, 2019. It provides training and quality planting materials to improve purple yam production and marketing agreements with upland farmers within Mount Mantalingahan Protected Landscape.</p> <p>The draft agreement with RD Foundation (PHP 5 million or US\$95,785³) is under final review. The agreement with Alcantara Foundation (PHP 5 million or US\$95,785) is ready for signature of its Chief Executive Officer.</p>
SA 3							
3.1	LGU staff trained in participatory planning for integrated conservation and development	200	50	7 Male: 3 Female: 4	15 Male: 8 Female: 7	73 Male: 46 Female: 27	<p>Seven staff members of Bongao LGU in Tawi-Tawi completed the series of trainings held from November 2018 to March 2019 for the development of the management plan of Bud Bongao Eco Forest Park.</p> <p>Training is ongoing for LGU staff of El Nido and Puerto Princesa City in Palawan, Sarangani Bay in Region 12, and Isabela City in Basilan.</p>

³ Exchange rate of US\$1=PHP 52.50 was used.

INDICATORS		TARGETS		ACCOMPLISHMENTS			NARRATIVE PROGRESS
		LOP	Year 3 (Adjusted) ¹	Year 3, Quarter 3	Year 3	Inception to Date	
3.2	Community members trained in planning and implementation of integrated conservation and development	2,500	760	90 Male: 56 Female: 34	269 Male: 188 Female: 81	459 Male: 336 Female: 123	Ninety community members from 4 LGUs of Mount Matutum completed the required modules. More trainings are programmed in Region 12 next quarter.
3.3	LGU staff trained, certified and formally deputized as Wildlife Enforcement Officers by government agencies	200	53	-	30 Male: 21 Female: 9	77 Male: 65 Female: 12	Training on forestry and wildlife law enforcement are programmed next quarter for LGUs in Allah Valley and Mount Matutum.
3.4	Community members trained and certified as WEOs by government agencies	500	153	-	145 Male: 144 Female: 1	217 Male: 213 Female: 4	Twenty-four barangay captains from Mount Mantalingahan completed the community-based environmental law enforcement training. The barangay officials will be proposed for certification or deputation by PCSDS as WEOs. The training of community members from LGUs of Allah Valley and Mount Matutum and the third batch of Pasonanca Natural Park forest guards will be held next quarter.
SA 4							
4.1	University-supported research initiatives implemented in target sites	25	11	6 (graduate student researches)	9 (2 expert-led; 7 graduate student researches)	14 (4 university-led, 1 CSO-led, 2 expert-led, 7 graduate student researches)	Six graduate students were awarded research support during the quarter. Research on the following have commenced: <ol style="list-style-type: none"> 1. Assessment of the recreational value, sensitivity and disturbance of the Capisaan Cave System in Nueva Vizcaya 2. Ecology and conservation of native metallophytes in Zambales 3. Morphological and molecular analyses of the Philippine pit viper in Luzon Biogeographic Region 4. DNA Barcoding, morpho-anatomy and ecology of Rafflesiaceae 5. Ecology and genetic diversity of Philippine teak 6. Floristics and dynamics of pteridophytes in Mount Matutum Protected Landscape Four more graduate research proposals were endorsed for funding assistance by the activity's

INDICATORS	TARGETS		ACCOMPLISHMENTS			NARRATIVE PROGRESS	
	LOP	Year 3 (Adjusted) ¹	Year 3, Quarter 3	Year 3	Inception to Date		
						<p>Technical Evaluation Committee on March 28, 2019</p> <p>The ranger perception survey in Palawan was expanded to cover four more protected areas: Tubbataha Reefs Natural Park, Puerto Princesa Subterranean River, El Nido-Taytay Managed Resource Protected Area, and Malampaya Sound Protected Landscape and Seascape. The ranger and community perception surveys were also started in Sarangani Bay LGUs. The DENR-BMB National Parks Division endorsed the inclusion in the study of Apo Reef Natural Park (island protected area) and Agusan Marsh Wildlife Sanctuary (wetlands).</p> <p>The proposal for the seaweed research of Mindanao State University-Tawi-Tawi College of Technology and Oceanography was endorsed by the university chancellor.</p>	
4.2	Universities developing conservation curricula with support from Protect Wildlife	10	2	-	3	7	<p>With guidance from technical consultants, partner schools commenced work on the preparation of syllabi and learning materials for enhanced curriculum for marine biology (Palawan State University, Western Philippines University, Zamboanga State College of Marine Science and Technology) and for environmental science (Western Mindanao State University, Palawan State University).</p> <p>Of the seven universities being assisted, three are working on two or more curriculum development initiatives:</p> <ol style="list-style-type: none"> 1. Western Philippines University (environmental law and protection, marine science) 2. Palawan State University (environmental law and protection, marine science, environmental science)

INDICATORS	TARGETS		ACCOMPLISHMENTS			NARRATIVE PROGRESS	
	LOP	Year 3 (Adjusted) ¹	Year 3, Quarter 3	Year 3	Inception to Date		
						3. Western Mindanao State University (environmental law and protection, environmental science)	
SA 5							
5.1	Government staff trained in combating wildlife and environmental crime	1,000	200	129 Male: 80 Female: 49	512 Male: 300 Female: 212	1,121 Male: 696 Female: 425	For the quarter, three enforcement trainings were held: 1. Training on Wildlife Conservation and Management: Species Identification, Handling and Management Techniques: Insects and Spiders (March 18-31, 2019; 55 participants) 2. Community-Based Environmental Law Enforcement Training for Barangay Officials of Mount Mantalingahan Protected Landscape (March 26-29, 2019; 24 participants) 3. Orientation on environmental laws and wildlife trafficking for newly recruited Police Environment Desk Officers of the PNP Criminal Investigation and Detection Group (March 27, 2019; 50 participants)
5.2	New or revised laws and regulations adopted to combat wildlife crimes	50	11	-	4	15	Protect Wildlife continued to support its partners in pursuing these policy initiatives: 1. Implementing rules and regulations of ENIPAS Law 2. Adjudication rules for protected areas 3. National Protocol on Poaching in Philippine Waters 4. Criteria for Threatened Species List of Palawan 5. Enforcement protocol of Mount Mantalingahan Protected Landscape 6. Panglima Sugala, Tawi-Tawi ordinance for the conservation of blue crab (<i>Portunus pelagicus</i>)
5.3	Confiscations, seizures and arrests resulting from capacity building provided by Protect Wildlife	1,000	150	-	96	252	Collection of data for this indicator for the second half of Year 3 will be done and reported next quarter.

TABLE 2: ECONOMIC GROWTH OUTCOMES AND OUTPUTS: YEAR 2 ACCOMPLISHMENTS (as of March 31, 2019)

INDICATORS	TARGETS		ACCOMPLISHMENTS			NARRATIVE PROGRESS	
	LOP	Year 3 (Adjusted) ⁴	Year 3, Quarter 3	Year 3	Inception to Date		
Outcomes							
EG.10.2-2	Number of hectares of biologically significant areas under improved natural resource management as a result of USG assistance	500,000	120,000	-	107,280	372,912	<p>The zoning of Sarangani Bay is ongoing and is expected to be completed next quarter. This will contribute 210,883 hectares to activity accomplishments.</p> <p>Land use validation and zoning activities are ongoing for El Nido-Taytay and Cleopatra's Needle, which have estimated areas of 89,135 hectares and 38,639 hectares, respectively. Nine LGUs have ongoing FLUP activities.</p>
EG.10.2-3	Number of people with improved economic benefits derived from sustainable natural resource management and/or biodiversity conservation as a result of USG assistance	100,000	49,715	19,525 ⁵	19,525	20,210	<p>In collaboration with municipal agricultural offices, 5 farmers' associations in five barangays in Mount Mantalingahan continued to be provided with organizational development support, training and inputs (planting materials) to start purple yam production, and extension services on cassava and vegetable production. Training on purple yam production was provided under the Protect Wildlife-Sunlight Foods Corporation partnership. On February 2019, the activity-funded farm shed was turned over to the farmers' association in Bataraza. This is now being used as venue for association meetings and training, and storage area for inputs and harvested crops.</p> <p>ECLOF has started the second cycle of loans for seaweeds farmers in Quezon, Palawan and smallholder farmers in the five LGUs in southern Palawan. Number of beneficiaries are still to be determined.</p> <p>With the approval for implementation of the management plans of Pasonanca Natural Park and Santa Cruz Islands, and of the FLUP of Brooke's Point, the following will significantly benefit from ecosystem</p>

⁴ Includes targets, which were not met in Years 1 and 2.

⁵ Water users serviced by the Zamboanga City Water District not included yet. Data for verification.

INDICATORS	TARGETS		ACCOMPLISHMENTS			NARRATIVE PROGRESS	
	LOP	Year 3 (Adjusted) ⁴	Year 3, Quarter 3	Year 3	Inception to Date		
						<p>services that the protected areas and forest lands provide:</p> <ol style="list-style-type: none"> 1. Water users serviced by the Zamboanga City Water District, especially in rural barangays (53,391 total residential connections) 2. Community members in Santa Cruz Islands who are dependent on nearshore fishing and tourism in the islands (79 households) 3. Water users serviced by the Brooke's Point water system and Rural Waterworks and Sanitation Association (3,603 connections) <p>ZCWD currently employs 119 forest guards. They are directly benefiting from PES arrangements that have been approved by the Pasonanca Natural Park management board.</p> <p>Brooke's Point LGU prepared a three-year work and financial plan to support agroforestry activities in Tigaplan watershed, which will make use of its PES revenues. The plan provides for the procurement and distribution of seedlings and farm inputs for agroforestry initially to 21 farmers of Barangay Mainit who have been trained by the activity on farm planning.</p> <p>In Zamboanga City, the management plans for watersheds and mangrove areas, which will be the basis for tenure award to communities, are still being completed. About 2,564 households living within the public lands are expected to benefit from improved tenure arrangements.</p> <p>In South Cotabato, two organizations have submitted funding proposals to FSSI for abaca and coffee processing. These community enterprises will benefit about 1,000 households or 5,000 persons.</p>	
EG.10.2-6	Number of people that apply improved conservation law	1,200	200	-	-	256	There is continuing work to improve the capabilities and practices of enforcement staff and organizations in various enforcement units. In addition to various

INDICATORS	TARGETS		ACCOMPLISHMENTS			NARRATIVE PROGRESS	
	LOP	Year 3 (Adjusted) ⁴	Year 3, Quarter 3	Year 3	Inception to Date		
enforcement practices as a result of USG assistance						<p>training provided, these capability building activities were undertaken:</p> <ol style="list-style-type: none"> 1. Development of enforcement protocols, enforcement plan and manual of operations for Pasonanca Natural Park and Santa Cruz Islands. 2. Support (deployment of programmer) for the development of BRAIN system of PCSDS 3. Development of 2019 action plans and localized protocols to improve coordination among law enforcement groups in Palawan seaports and airports 4. Turnover of enforcement gear to PCSDS and southern Palawan LGUs 5. Participatory assessment of wildlife and environmental law enforcement in Aurora <p>The assessments that will allow the documentation and validation of improved practices in different enforcement units and agencies will be undertaken on the last quarter of Year 3.</p>	
EG.10.3-4	Amount of investment mobilized (in US\$) for sustainable landscapes, natural resource management and biodiversity conservation as supported by USG assistance	US\$5 million	US\$ 1,115,767	US\$ 320,276.89 ⁶	US\$ 7,214,468.33 ⁷	US\$ 7,581,140,33	<p>Investments mobilized and leveraged during the quarter include:</p> <ol style="list-style-type: none"> 1. Estimated counterpart support of national agencies, LGUs and communities in training activities organized or co-funded by Protect Wildlife during the quarter (US\$123,222.35) 2. Commitment of Sunlight Foods Corporation (US\$190,476) per agreement signed on February 4, 2019. 3. Tubbataha Management Office budget for the direct mail and social media campaign (US\$1,377.40) 4. Brooke's Point budget allocation for the pride campaign (US\$3,917.62) 5. Counterpart of partners in holding Talakayan Tungkol sa Tawilis at Taal (February 19, 2019)

⁶ US\$1 = PHP 52.20. The exchange rate should be US\$ 52.20

⁷ Adjusted to include funding commitments obtained in previous quarters from foundations and the private sector for CWT campaigns and community livelihoods and enterprises, i.e., LWR, FSSI, Abraham Holdings, Ink E and Digichive.

INDICATORS		TARGETS		ACCOMPLISHMENTS			NARRATIVE PROGRESS
		LOP	Year 3 (Adjusted) ⁴	Year 3, Quarter 3	Year 3	Inception to Date	
							with University of Santo Tomas (Biological Sciences), University of the Philippines-Diliman (Institute of Biology), National Fisheries Development and Research Institute and DA-BFAR Region 4A. (US&I,283.52)
EG.13-6	Greenhouse gas (GHG) emissions, estimated in metric tons (MT) of CO ₂ equivalent reduced, sequestered or avoided through sustainable landscape activities supported by USG assistance	703,930	103,957	36,601	36,601	72,041	The GHG emissions avoided for the quarter is estimated around 36,601 MT and these are: 1. Mount Matutum protected area forests: 1,530 MT 2. Zamboanga City mangrove forests: 7,526 MT 3. Bataraza upland and mangrove forests: 18,595 MT 4. Brooke's Point upland and mangrove forests: 1,748 MT 5. Sofronio Española upland and mangrove forests: 7,202 MT
Outputs							
EG.10.2-4	Number of people trained in sustainable natural resources management and/or biodiversity conservation as a result of USG assistance	4,500	800	236	1,080	2,288	Training on various aspects of sustainable resources management and biodiversity conservation during the quarter trained 236 participants: 1. Participatory planning for integrated conservation and development of Bud Bongao Eco Forest Park (local conservation area) in Bongao, Tawi-Tawi (3 sessions; 17 participants) 2. Participatory planning for integrated conservation and development for Mount Matutum communities (3 batches: January to February 2019; 90 participants) 3. Training on Wildlife Conservation and Management: Species Identification, Handling and Management Techniques: Insects and Spiders (March 18-31, 2019; 55 participants) 4. Orientation on environmental laws and wildlife trafficking for newly recruited Police Environment Desk Officers of PNP Criminal Investigation and Detection Group (March 27, 2019; 50 participants) 5. Community-Based Environmental Law Enforcement Training for Barangay Officials of Mount Mantalingahan Protected Landscape (March 26-29, 2019; 24 participants)

INDICATORS		TARGETS		ACCOMPLISHMENTS			NARRATIVE PROGRESS
		LOP	Year 3 (Adjusted) ⁴	Year 3, Quarter 3	Year 3	Inception to Date	
EG.10.2-5	Number of laws, policies, or regulations that address biodiversity conservation and/or other environmental themes officially proposed, adopted, or implemented as a result of USG assistance	50	10	4	8	21	<p>The management board for Pasonanca Natural Park issued a resolution recognizing the budget allocation and utilization of ZCWD for protection, conservation, management and development of protected areas as payment for ecosystem services (Resolution No. 06-2019)</p> <p>In Palawan, three municipal council resolutions were issued adopting municipal FLUPs. These are:</p> <ol style="list-style-type: none"> 1. Brooke's Point Sangguniang Bayan Resolution No. 2019-43 (approved on February 22, 2019) 2. Sofronio Española Sangguniang Bayan Resolution No. 2019-03 (approved on January 17, 2019) 3. Quezon Sangguniang Bayan Resolution No. 2019-034 (endorsed for municipal council approval on March 19, 2019)

3 QUARTERLY PROGRESS REPORT

Protect Wildlife highlights the important activities and results during the quarter at the national level and at activity sites. Major activities are described in detail while a table summarizes all other activities carried out during the quarter. The priorities for the following quarter are then listed according to the SA Theory of Change result.

3.1 MANILA

3.1.1 HIGHLIGHTS FOR THE QUARTER

- Support to integration, harmonization and localization initiatives of DENR
- Development of Protected Area Management Academy concept
- Wild and Alive CWT campaign in NAIA
- Collaboration on CWT activities with Asian Development Bank (ADB) and U.S. Department of the Interior Partnership for Biodiversity Conservation Phase III (PBC3) activity
- Partnerships for sustainable livelihoods and wildlife conservation
- Rollout of training and mentoring modules to scale up PES
- Graduate student research assistance

Policy Development

Integration of Land Use Plans and DENR Enforcement Manuals. The DENR Project Steering Committee for Protect Wildlife created on November 2018 issued two resolutions (Annex A) during its first organizational meeting on January 31 to February 1, 2019 at Clark, Pampanga:

- Resolution Creating the Project Steering Committee Ad Hoc Technical Working Group on the Integration of Natural Resources Management Plans with Comprehensive Land Use Plans, and
- Resolution Creating the Project Steering Committee Ad Hoc Technical Working Group on the Preparation of an Integrated Enforcement Manual of Operations for Environmental Crimes.

The first resolution reflects DENR's recognition of Protect Wildlife's ongoing contribution to harmonize land and resource uses at the landscape and political (local government) levels to improve the allocation, protection, conservation, regulation and management of public domains. Protect Wildlife assists LGU partners in integrating forest lands, protected areas and ancestral domains within comprehensive land use plans.

The second resolution highlights the need to integrate different DENR bureaus' manuals of operations for enforcement in collaboration with other enforcement law agencies. An integrated manual for enforcing environment and biodiversity-related laws will help PENROs and CENROs perform their mandated duties as frontliners in the enforcement and delivery of DENR services to its various clients and constituents. This resolution recognizes the role that Protect Wildlife plays in building capacity for enforcement.

The two resolutions provide a trajectory for continuing Protect Wildlife assistance in Manila and Regions 3, 4B, 9 and 12. They outline the activity's role in helping to upgrade and broaden DENR's Lawin system for use as a biodiversity monitoring system and for the validation of plantations set up under the National

Greening Program. The resolutions also identify additional opportunities for technical support, including: improving DENR officials' capacity to use aerial drones for data gathering, analysis and reporting; integrating landscape-based land uses in public domains as part of CLUPs; and optimizing PES schemes for application in forest lands, protected areas and ancestral domains.

Following the meeting, Protect Wildlife worked with DENR counterparts to secure TWG nominees, draft Special Orders, and their subsequent issuance. In addition, the project team initiated recruitment of a short-term consultant who will advance progress against the resolution to integrate environmental crime enforcement manuals.

Harmonizing DENR-FMB and DENR-BMB Land and Resource Use Categories and Data.

On March 5 to 6, 2019, Protect Wildlife facilitated a workshop where the DENR-FMB and DENR-BMB technical working group developed a joint six-month action plan to pilot processes that will harmonize land uses in public domains in Aurora, Bohol, Marinduque, South Cotabato and Sarangani provinces. These processes are the result of Protect Wildlife technical assistance to protected area management boards (PAMBs) and LGUs on protected area management and forest land use planning. These include, among others, the documentation of policy-designated lands uses, validation of actual land uses, and spatial analysis for zoning. To support this initiative, Protect Wildlife was tasked to develop a process framework that will guide a DENR-created technical working group to go through the harmonization process.

Piloting of these processes requires that DENR-FMB and DENR-BMB review and reconcile the land classification and land use, land cover and zoning categories that they use and the statistics that they generate. After the piloting period, the two bureaus, with inputs from Protect Wildlife, will present policy recommendation for the standardization of planning parameters, statistics and the management zoning protocols for protection and conservation areas, and production areas in both protected areas and forest lands. The ultimate objective is for the DENR to generate forestry and protected area statistics that support improved land and resource use management planning process. This will mitigate confusion on land-based statistics of DENR, reduce fragmentation in land use planning of the public domain, and minimize overlaps and conflicts among various tenurial instruments.

Localization of Philippine Biodiversity Strategic Action Plan. As a result of a series of regional consultations in 2018, DENR-BMB requested assistance from Protect Wildlife and the United Nations Development Programme Biodiversity Finance Initiative (BIOFIN) to develop and pilot processes for localizing the national Philippine Biodiversity Strategy Action Plan in several provinces. A localized PBSAP is a document that clarifies in quantifiable terms the agreed-upon multisector strategies and investments to achieve target biodiversity indicators in forest lands, protected areas, coastal and marine areas, and private lands in a specific province. It will build on active FLUPs, CLUPs, coastal and marine development plans, and agricultural development plans developed at various levels of government. Localized PBSAPs at the provincial level will respond to 20 national indicators for conservation and management of biodiversity assets. This is seen as a working guide for LGUs to determine their investments and contributions in meeting the biodiversity targets and indicators of the province.



At the organizational meeting in Clark, Pampanga, the Protect Wildlife Project Steering Committee signed and issued resolutions to advance the harmonization of natural resource management plans and comprehensive land use plans, as well as the integration of the enforcement manuals of the different DENR bureaus.

Protect Wildlife agreed to lead the process of developing the framework for piloting the localized PBSAPs in Aurora, South Cotabato and Zamboanga City-Zamboanga Sibugay province. The draft framework is in Annex B. In coordination with BIOFIN and DENR-BMB, Protect Wildlife developed activity designs for the regional orientation and the localization workshop in each pilot region that are set for June 2019. In addition to funding the regional consultations, Protect Wildlife will provide technical guidance especially in spatial analysis and strategy setting.

Capacity Building Support and Systems Development

Protected Area Management Academy. During the reporting period, Protect Wildlife prepared a draft concept note for a Protected Area Management Academy in response to DENR's needs for in-house training to improve the capacity of protected area managers and their staff and provide a career-driven process for selecting staff of protected area management offices. The trainings will improve DENR's capacity to enforce the Expanded NIPAS law in accordance with its implementing rules and regulations. On February 15, 2019, the DENR-BMB National Parks Division released the draft concept note prepared by Protect Wildlife, which later underwent several reviews within DENR-BMB.

On March 20, 2019, the draft concept note (Annex C) was presented by Protect Wildlife in a workshop attended by DENR line bureaus. The DENR Assistant Secretary for Staff Bureaus agreed to issue a Special Order for the formation of a technical working group that will provide more details to the concept note and support the preparation of a curriculum and initial training modules. The modules will address basic conservation concepts and practices in forest lands (DENR-FMB) and protected areas (DENR-BMB). These modules will be piloted with an initial set of participants.

Those present in the workshop then proposed that the following be considered in the development of the curriculum and initial set of training modules of the academy:

1. **The ENIPAS law and its draft implementing rules and regulations.** New provisions require a new set of skills and stock of knowledge for protected area managers and staff.
2. **The PBSAP.** With the localization of the PBSAP, biodiversity assets will be eventually managed at the provincial level. There is a need to develop the capacities of provincial conservation cadres, managers and executives to manage these assets.
3. **The Protected Area Master Plan.** The collective size of protected areas (4.68 million hectares of terrestrial areas and 3.08 million hectares of marine areas) and other conservation areas demand personnel and local partners with improved governance and management skills.
4. **The Climate Resilient Forestry Master Plan.** This will provide guidance and direction on how conservation may be addressed in highly diverse areas of forest lands. The collective size of protection and conservation areas in forest lands (habitat and biodiversity management areas) require training for managers.
5. **Past assessments of selected protected areas in the Philippines.** All assessments share a common recommendation to establish a sustainable training program for protected area managers and staff.
6. **National capacity building program under NIPAS law.** In 1992, through a Japanese technical assistance grant, more than 1,000 DENR, LGU and CSO trainees graduated from a 10-month national capacity building program held at the University of the Philippines Los Baños. The plan to sustain the gains from this program did not materialize due more pressing issues and concerns at the DENR. The resulting hiatus set back the plan to establish a protected area management training institution.
7. **Recent and current programs.** There are three major capacity building programs on protected area management: (a) the NIPAS-MPA Capacity Building Program (2015-2018); (b) Professional Masters in Tropical Marine Ecosystem Management offered in University of the Philippines Diliman, Los Baños and Visayas; and (c) a DENR-exclusive internal program under the Environment and Natural

Resources Academy that offers training modules to its frontline staff, supervisors, managers and executives.

8. **Capability building programs of potential collaborators**, such as the ASEAN Center for Biodiversity and the ADB-GEF-DENR Combating Environmental Organized Crime in the Philippines project.

Subsequently, a financial plan was prepared and agreed upon with the DENR-BMB.

Species Identification Training. Protect Wildlife supported DENR-BMB’s Training on Wildlife Conservation and Management: Species Identification, Handling and Management Techniques on March 18 to 31, 2019 in Los Baños, Laguna. This training focused on identification of insects and spiders, including those that are commonly trafficked. It was designed to develop skills in wildlife identification among DENR field units and support their regulatory and conservation functions. The 55 training participants were from various regulatory, licensing and enforcement units of DENR regional offices.

Behavior Change Communication Campaigns

Wild and Alive Campaign. From December 2018 to April 2019, the pilot CWT campaign by Protect Wildlife and DENR-BMB in NAIA terminals reached at least 1 million individuals based on available data from the contracted advertising agency on passenger foot traffic and assumed recognition rates per site or placement of the billboards. The effort also generated US\$34,482 (PHP 1.8 million) investment in the form of free placements with a three-month duration at the NAIA Terminal 3 check-in counter and at the NAIA Terminal 2 domestic baggage claim. During this three-month pilot exposure, Protect Wildlife identified the need to improve the saliency of the message and increase the frequency of airport advertisements in consideration of media clutter at airports and the transient nature of the audience. This means improving material design and increasing concentration in one particular area of the terminal.

Despite the challenge of monitoring traction during the pilot, the campaign did receive exposure on social media during World Wildlife Day when former U.S. Ambassador to the Asian Development Bank Curtis S. Chin, with has over 9,000 followers on Twitter, tweeted Wild and Alive billboards from NAIA Terminal 1 with the caption “Learn. Protect. Report.”—the campaign’s call to action

(<https://twitter.com/CurtisSChin/status/1102188841786474497>). Additional anecdotal information from DENR-BMB mentioned Instagram users posting the campaign on their feed. This shows the potential of developing an online campaign to support the localization of the campaign in domestic airports and seaports.



Wild and Alive campaign billboard at NAIA Terminal 1 departure area



Wild and Alive campaign billboard at NAIA Terminal 3 check-in counter area

Connected to the Wild Traveling Exhibit. Protect Wildlife continues to explore avenues to increase awareness, modify attitudes and promote desired behaviors on wildlife conservation. This quarter, in collaboration with the Mind Museum, the activity co-developed and finalized a proposal for the Connected to the Wild traveling exhibit. The Mind Museum will roll out the traveling exhibit in the coming months in Protect Wildlife sites and in several parts of the country.

Connected to the Wild is proposed to be an immersive traveling exhibit on Philippine wildlife with a multi-layered space mimicking wildlife habitats. Animal projections, digital screens in various treatments and configurations, and high-resolution photographs of different shapes and sizes will feature wildlife in their various natural habitats in the Philippines.

Innovations through Gamification of Behaviors. During this reporting period, Protect Wildlife also discussed with Balangay Entertainment support for “Innovations through Gamification of Behaviors.” This approach is built on empathizing with audiences as the key principle in behavior change communication. This initiative will help simplify conservation and CWT messages, make materials more engaging, and design audience participation into its campaigns. The design will build on experiences in the development of watershed conservation board game prototype and tabletop game directed for the youth.

Balangay Entertainment is a designer of socially relevant and educational Filipino games. It has produced board games with conservation messages for organizations like Plan International and University of the Philippines Diliman Marine Science Institute.

Public-Private Partnership Agreements

Sustainable Livelihoods. After six months of collaboration, Sunlight Foods Corporation signed a partnership agreement with Protect Wildlife on February 4, 2019 to improve the livelihoods of community members in southern Palawan. Under the partnership agreement, Sunlight Foods Corporation committed US\$192,308 or PHP 10 million for the production of purple yam and for marketing. Sunlight Foods Corporation will work with smallholder farmers through a contract growing arrangement and will later introduce other high-value crops such as jackfruit and avocado. With technical assistance from Protect Wildlife and extension support from LGU agricultural offices, Sunlight Foods Corporation will work with 100 farmers at demonstration farms in identified community-based forest management and ancestral domain areas in Mount Mantalingahan to propagate improved purple yam seedlings, conduct trainings on production and farm management, and to standardize good agricultural practices. Protect Wildlife will engage LWR and Ecumenical Church Loan Fund (ECLOF) to develop innovative microfinancing schemes for farmers who are engaged in purple yam production.

Protect Wildlife’s holistic approach to engaging multi private sector partners around shared value propositions that create sustainable livelihood opportunities for small holders promises to reduce pressure on wildlife habitats, promote compliance with local land use plans, and ultimately contribute towards achievement of project outcomes. In addition to these initiatives, Protect Wildlife will pursue efforts to engage national-level private sector partners, including SM Supermalls and SMART Communications, on shared value propositions and corporate social responsibility initiatives.

Promoting Wildlife Conservation. Protect Wildlife finalized a partnership agreement with Conrado and Ladislawa Alcantara Foundation, Inc. for their commitment worth USD\$96,154 (PHP 5 million) to support mangrove nursery rehabilitation, enforcement and campaigns for marine turtle conservation in Sarangani Bay. Protect Wildlife will provide technical assistance for capacity building, planning and implementation activities. An agreement with RD Foundation that likewise supports marine turtle conservation in Sarangani Bay is under final review.

Payment for Environmental Services

Scaling Up PES through Training and Mentoring Modules. This quarter, Protect Wildlife developed and started rolling out training and implementation modules on payment for ecosystem services in Mount Matutum. The team developed the PES modules based on the experiences and lessons from PES initiatives in southern Palawan and Zamboanga City sites. The modules will help DENR and LGUs to carry out resource valuation, and the various users of ecosystem goods and services to do cost and revenue analysis. Results of these initial modules are expected to help in negotiating PES rates between DENR and the LGUs with the users of ecosystem goods and services.

Ongoing and Potential Collaboration with Other CWT Partners

ADB-GEF-DENR. At the national inception workshop and first organizational meeting of the ADB-GEF-DENR Combating Environmental Organized Crime in the Philippines project on February 21 to 22, 2019, Protect Wildlife agreed to collaborate with the ADB project team on policy development, institutional capacity development and demand reduction activities in the Philippines. The activity also agreed to work with the ADB project team to develop conservation communications under its “Protecting and Investing in Natural Capital in Asia and the Pacific” initiative, specifically on combating wildlife trafficking in the Philippines. On March 2019, Protect Wildlife, DENR-BMB and ADB discussed potential support to the assessment of DENR wildlife rescue centers across the country to determine the logistical and other support needs that the projects may provide.

U.S. Department of the Interior-Partnership for Biodiversity Conservation Phase III. In a meeting with the National Law Enforcement Coordinating Committee-Sub-committee on Environment and Natural Resources (NALECC-SCENR) on February 13, 2019, Protect Wildlife and PBC3 agreed to support the development of a policy framework on ecosystem resource valuation in support of law enforcement and to enhance the capacities of the Philippine government on utilizing wildlife forensics for law enforcement.

Biodiversity Conservation Research

Graduate Student Research Assistance.

During this quarter, Protect Wildlife evaluated 13 graduate research proposals and approved six for funding. On March 5, 2019 during the World Wildlife Day celebration of DENR-BMB, Protect Wildlife held a ceremonial awarding of graduate research assistance to five of the seven graduate student grantees to date. Below, Protect Wildlife lists the research topics approved for funding:

1. Elucidating the diversity of Philippine fruit bats (Pteropodidae) at the species and population level using molecular genetic approaches, by Adrian Luczon, PhD in Biology, Institute of Biological Sciences, College of Science, University of the Philippines Diliman
2. Native metallophytes conservation in mining-affected areas and their implication in restoring mined-out areas in Zambales, by Amelita Luna, PhD in Forestry, College of Forestry and Natural Resources, University of the Philippines Los Baños
3. Recreational value, sensitivity and disturbance assessment of the Capisaan Cave System, Nueva Vizcaya, Philippines, by Jayson Caranza, PhD in Environmental Science, School of Environment and Management, University of the Philippines Los Baños



Graduate students from University of the Philippines Diliman, University of the Philippines Los Baños and University of Santo Tomas were the first batch of recipients of Protect Wildlife’s funding assistance for graduate research on biodiversity conservation.

4. Unraveling the mystery of Rafflesiaceae: Evidences from DNA barcoding, morpho-anatomy and biogeography, by Adriane Tobias, MS in Forestry, College of Forestry and Natural Resources, University of the Philippines Los Baños
5. Investigating the potential cryptic diversity of the Philippine pit viper *Timeresurus flavomaculatus* (Viperidae: Crotalinae) in the Luzon Biogeographic Region through morphological and molecular analyses, by Yñigo del Prado, MS in Biology, University of Santo Tomas
6. Floristics and dynamics of pteridophytes in Mount Matutum Protected Landscape, Southern Mindanao, by Christine Dawn Galope Obemio, PhD in Botany, Institute of Biological Sciences, University of the Philippines Los Baños
7. Ecology and genetic diversity of Philippine teak *Tectona philippinensis* Benth. And Hook. f. (Verbenaceae), by Dexter Inoc, PhD in Botany, Institute of Biological Sciences, University of the Philippines Los Baños.

Events and Outreach

Protect Wildlife supported the Philippine Society for Freshwater Science to conduct the “Talakayan Tungkol sa Tawilis at Taal” held at in Manila on February 19, 2019. The tawilis (*Sardinella tawilis*) is a Philippine endemic species of freshwater sardines that was recently listed by the International Union for Conservation of Nature (IUCN) under the endangered category due to overharvesting and habitat loss. The forum was jointly organized by the University of Santo Tomas Department of Biological Sciences, University of the Philippines Diliman Institute of Biology, National Fisheries Development and Research Institute, and DA-BFAR Region 4A.

The activity also supported the first Sulu Hornbill Conservation Action Planning Workshop held at Los Baños, Laguna on March 4 to 5, 2019. The workshop was organized by the Philippines Biodiversity Conservation Foundation, Inc. in partnership with IUCN Hornbill Specialist Group and Wildlife Reserve Singapore. Protect Wildlife sponsored the participation of LGU and DENR staff from Tawi-Tawi and Region 9.

On March 5, 2019, Protect Wildlife sponsored the annual activities of DENR-BMB to celebrate World Wildlife Day. These include the 6th Wildlife Law Enforcement Awards, which recognized partner agencies who provided assistance and support to the bureau in enforcing the Wildlife Act; and the 4th National Wildlife Quiz Bee that sought to raise awareness on wildlife conservation among high schools students in Metro Manila and neighboring regions.

On March 11 to 12, 2019, the activity supported the First Philippine Social Marketing Summit held at Bicol University in Legazpi City. The SA 1 team presented its BCC campaigns during a plenary session at the summit. Around 250 individuals attended the event, including marketing, mass communication and psychology students from the university and other nearby schools.

On March 29, 2019, Protect Wildlife supported the Philippine Eagle Foundation for the special screening of the *Bird of Prey* wildlife documentary. The invitation-only screening in Manila was attended by more than 50 representatives from various national government agencies. This is the first of a series of screenings in the Philippines that will be supported by the activity.

3.1.2 OTHER MANILA-BASED ACTIVITIES

PARTNER ORGANIZATIONS	SA	ACTIVITY	DATE
DENR-BMB	SA 5	DENR-BMB-WRD and DENR-FASPS meeting with major CWT projects (Protect Wildlife, PBC3 and ADB) to improve coordination and sharing of information.	January 16, 2019
	SA 4	Orientation for DENR-BMB-NPD on the Ranger and Community Perception Study being carried out in Protect Wildlife sites. They agreed to the inclusion of Apo Reefs Natural Park and proposed the inclusion of Agusan Marsh Wildlife Sanctuary in the study.	January 23, 2019
	All SAs	Action planning with DENR regional staff to harmonize Protect Wildlife work plan activities for 2019 with DENR priorities in activity sites	January 31-February 1, 2019
	SA 5	Teleconference meeting with DENR-BMB-WRD to agree on design and preparatory activities for WildALERT Design Thinking workshop	February 12, 2019
	SA 5	Resource person for a DENR Region 4A learning event on basic investigation techniques for PENROs and CENROs	February 20-21, 2019
	SA 3, SA 5	Participation in the ENIPAS Implementing Rules and Regulations High Level Meeting	February 22, 2019
DENR-FMB	SA 3, SA 4	Discussion with DENR-FMB and DENR Region 4B on tenure and resource use concerns in Mount Mantalingahan Protected Landscape, including issues on almaciga tapping permits in ancestral domain.	February 7, 2019
	SA 3	Initial Stakeholder's Consultation on the National Forest Stock Monitoring System	March 28, 2019
DA-BFAR	SA 5	Review of the 2019 DA-BFAR National Enforcement Operations Action Plan to identify priority activities for possible Protect Wildlife assistance: (1) National Protocol on Poaching; (2) National Summit for Aquatic WEOs and Fisheries Law Enforcement Officers; (3) Training of Fisheries Law Enforcement Officers; and (4) Improvement of outreach materials on IUU fishing and destructive fishing practices	January 14, 2019
Foundation for a Sustainable Society, Inc.	SA 2	Discussion on detailed guidelines and requirements for loan application and respective roles of FSSI and Protect Wildlife providing proposal preparation support to cooperatives	January 11, 2019
LWR, ECLOF	SA 2	Discussions with ECLOF and LWR on the development of a financing scheme for high-value agricultural crops like purple yam and cassava	January 29, 2019
Sunlight Foods Corporation	SA 2	Signing of the Protect Wildlife-Sunlight Foods Corporation partnership agreement.	February 4, 2019
American Bar Association	SA 5	Participation in the ABA roundtable discussion on illegal wildlife trade in the Philippines and potential engagements with CSOs through its access to justice program to help address wildlife trafficking	February 22, 2019
Philippines Biodiversity Conservation Foundation, Inc.	SA 4	Meeting with the Philippines Biodiversity Conservation Foundation Inc. on the Sulu Hornbill research in Tawi-Tawi	February 22, 2019
PAMB of Apo Reefs	SA 4	Presentation of the ranger and community perception study to the PAMB of Apo Reefs, the proposed third study area	March 8, 2019
Philippine National Police	SA 5	Lecture on environmental laws and wildlife trafficking for newly recruited Police Environment Desk Officer of the PNP Criminal Investigation and Detection Group	March 27, 2019

3.1.3 PLANS FOR NEXT QUARTER

SA 1: Behavior Change Communication

Theory of Change Result: Foundational knowledge improved

- Continue development of prototypes, including a toolbox of activities and other job aids, to help other SA teams, field staff and partners to effectively deliver conservation concepts and messages and achieve learning objectives during training and community events.

Theory of Change Result: Improved institutional and private sector attitudes toward conservation

- Finalize exhibit design and visitor experience with The Mind Museum for the November 2019 launch.
- Write and produce 30- to 60-second video materials for TV monitors at various transport hubs for Wild and Alive campaign localization.
- Engage a game design team to create additional tabletop games on wildlife and habitat conservation, including an improved watershed board game for upland communities and a tabletop game geared toward younger learners. Presently, the Protect Wildlife team is developing and testing learning games, with focus on tailoring them to our target populations' preferences and common uses. In the coming quarters, the project team will continue discussions with Balangay Entertainment, a local firm that develops conservation-oriented games, and engage partner agencies (e.g., extension workers, CSOs, schools) who can use games as a resource beyond the life of the project.
- Provide additional materials like puppet shows, activity books and group games as part of the first draft of the DENR-BMB-WRD collaboration for Dalaw Turo (community education) activities. Protect Wildlife will also train the DENR-BMB Communication, Education and Public Awareness team on usage of these materials and delivery of various learning modules for students.
- Conduct the second part of the BCC proposal writeshop for central-northern Palawan and Region 12, where participants will design key elements of their campaign materials, with inputs from SA 1 short-term consultants.
- Design a provincial thematic campaign for marine turtle conservation in Sarangani Bay as part of the Protect Wildlife initiative to develop standard protocols across the protected seascape. This will tie in the mini-campaigns of C4C trainees and other partners.
- Develop the scope of work for the curation and design of the permanent exhibit and visitor learning experience for the PCSDS Biodiversity Resource Facility.

SA 2: Conservation Financing

Theory of Change Result: Available conservation financing arrangements are identified and realigned to support conservation

- Develop a PES case study based on the experience and lessons learned from Brooke's Point, the only LGU partner so far to undergo the complete PES development process.
- Complete the PES modules for rollout in Region 12 and for scale up across Protect Wildlife sites.
- Continue coordination with Abraham Holdings, Sunlight Foods Corporation, LWR and Foundation for Sustainable Society, Inc. (FSSI) for the implementation of joint work plans. Support the ongoing

diversification and re-alignment of upland agriculture, livelihoods and enterprises toward biodiversity conservation.

Theory of Change Result: Opportunities for new conservation financing arrangements identified and designed with partners

- Finalize partnership agreement with RD Foundation and Conrado and Ladislawa Alcantara Foundation, Inc. to anchor Protect Wildlife's implementation of a marine turtle conservation program for Sarangani Bay.

Theory of Change Result: Partners initiate and implement financing arrangements

- Explore other partnerships with for-profit private sector groups for conservation, BCC, enforcement and research activities.

SA 3: Conservation and Governance

Theory of Change Result: Increased capacity of relevant government agencies, protected area management boards and CSOs in integrated resource planning and management

- Design and develop orientation and training modules with practicum for the development of local PBSAP and pilot these in target provinces starting in Region 9 and Region 12.
- Support workshops of the DENR technical working group and meetings with the HLURB on the integration of natural resource management in CLUPs of LGUs.
- Document the processes and activities on Carbon Accounting Verification and Certification that were previously implemented in Bukidnon province and level off with Holcim Resources Development Corporation on their expectations, contributions and participation.
- Engage technical consultants to assess DENR's aerial drone hardware capacity and software requirements, and design a training program on the use of the drone technology in forest monitoring, land use planning and enforcement.

Theory of Change: PAMB formulates improved policies for better protected area management

- Facilitate DENR approval of the concept note for the development of the Protected Area Management Academy, prepare an action plan, and initiate preparation of training modules for piloting with select DENR-FMB and DENR-BMB participants.

Theory of Change: Increased inter-agency collaboration for landscape-level resource planning, management and enforcement

- Design and develop orientation and training modules with practicum for the harmonization of DENR-FMB and DENR-BMB land use data and planning processes in target pilot sites especially in Region 12 and Region 3.
- In consultation with DENR, identify and profile the National Greening Program sites and protected areas where the monitoring system will be piloted. Define the upgrading that the Lawin system will need to enhance its monitoring functionality.

SA 4: Conservation Research

Theory of Change: Assessments completed

- Complete desk review of biodiversity focal interests and threats in new sites in Palawan.

Theory of Change: Capacity of partner colleges and universities to leverage funds, do research and curriculum development, and disseminate research results increased

- Continue supporting and monitoring approved graduate student research proposals and prepare for awarding and implementation of the following approved proposals:
 - Lower Montane Forest Fragments and Small Non-flying Mammals in Southern Cordillera, Philippines, by Institute of Biology, University of the Philippines Diliman
 - Population Structure and Spatial Pattern of Critically Endangered Species of Dipterocarpaceae Trees of Mount Malindang Range Natural Park, Northern Mindanao, Philippines, by School of Arts and Sciences, University of San Carlos
 - Metabarcoding of Dermal and Gut Bacterial Communities of *Hippocampus comes* including Seawater and Sediment Samples from Surigao del Norte, Mindanao, Philippines, by the Department of Biological Sciences, College of Science and Mathematics, Mindanao State University-Iligan Institute of Technology
 - Ontogenetic Habitat Shift and Connectivity of *Plectropomus leopardus* in the Sulu-Palawan Sea Systems, by Marine Science Institute, University of the Philippines
- Continue to facilitate support for the implementation of ongoing research activities in Palawan, Region 12 and other study sites. Review technical and progress reports and provide advice on implementation concerns for the following:
 - Sea cucumber rearing in Rasa Island Wildlife Sanctuary and Barangay Caguisan, Narra;
 - Pangolin population studies in Palawan;
 - Medicinal plants study in Mount Matutum;
 - Ranger and community perception studies in Sarangani Bay, Apo Reefs and Agusan Marsh; and
 - Laboratory-produced seaweed research in Tawi-Tawi.
- Finalize the following research proposals for USAID approval:
 - Coastal Resource Assessment for Marine Protected Area Establishment in Eleven Islands, Zamboanga City, by Zamboanga State College of Marine Sciences and Technology
 - Research and Conservation of Philippine Eagles within the Zamboanga Peninsula, with focus on Pasonanca Natural Park, by Philippine Eagle Foundation
 - Project Tawsis: Sulu Hornbill in Panglima Sugala, Tawi-Tawi, by Philippines Biodiversity Conservation Foundation, Inc.
 - Fuelwood Demand Study in Puerto Princesa, by Palawan State University
- Support the presentation of research findings in scientific fora, such as the following:
 - “Growth and survival of sandfish juveniles in floating hapa” at the 12th Asian Fisheries and Aquaculture Forum in Iloilo City on April 9 to 12, 2019.
 - “Growth and survival of sandfish in nursery pens,” to be presented by Western Philippines University at the International Congress for Conservation Biology 2019 in Kuala Lumpur, Malaysia.
- Support to the Philippine Society of Criminologists and Criminal Justice Professionals in the rollout of Environment Law and Protection course in its member schools in school year 2019-2020.

SA 5: Wildlife Law Enforcement

Theory of Change Result: National and local law enforcement capacity improved

- Support the development of systems and tools for wildlife law enforcement.
 - Conduct workshops with government partners on WildALERT app development, and
 - Continue with the development of the BRAIN System for PCSDS.
- Continue to support ongoing policy initiatives at the national level.
- Organize and facilitate the validation of wildlife trafficking in Balut Island in Region 11.
- Support specialized trainings for the DENR and other partners. Design and facilitate the following training activities and meetings:
 - Intelligence analysis, case profiling, investigation, link analysis and other advanced skills for DENR, PCSDS and DA-BFAR
 - Wildlife identification of plant species
 - Wildlife forensics focus group discussions to assess overall status and determine strategic actions
 - Prosecutors training
 - Advisory meetings in support of the drafting of the Philippine delegation for the development of country positions for Convention on International Trade in Endangered Species 18th Conference of Parties
 - Batch 9 of the training of trainers on the application of the Wildlife Law Enforcement Manual of Operations

Theory of Change: Institutionalization of training programs at national level to provide continuing support to regional field teams

- Support meetings and workshops of the DENR technical working group to unify the enforcement protocols and manuals on protected areas, wildlife and forestry.

3.2 PALAWAN

3.2.1 HIGHLIGHTS FOR THE QUARTER

- Legitimization of forest land use plans in southern Palawan
- Conservation planning in central and northern Palawan
- Strengthening on-site and off-site law enforcement
- Livelihood support for upland communities
- Investment of PES revenues
- Promoting adoption of flagship species by LGUs
- Rangers and community perception survey

Legitimization of Forest Land Use Plans in Southern Palawan

Protect Wildlife supported the efforts of the five LGUs (Sofronio Española, Brooke's Point, Bataraza, Rizal, and Quezon) in southern Palawan to address DENR's comments on their draft FLUPs and to finalize the plan documents. The FLUPs include land uses in forest lands, ancestral domains and the Mount Mantalingahan Protected Landscape.

During this quarter, the municipal development councils and legislative bodies of Brooke's Point and Sofronio Española endorsed their FLUPs and have authorized their local chief executives to enter into agreement with the DENR for FLUP implementation. The Quezon FLUP has been endorsed to the municipal council for approval. Bataraza and Rizal have yet to present their FLUPs to their respective municipal development councils to complete the local adoption process.

With the completion of Bataraza's FLUP, Protect Wildlife and the LGU agreed to enhance its municipal CLUP to comply with HLURB guidelines that require the inclusion in the plan of land uses in public domain. Bataraza has 23,846 hectares of forest lands, representing about 32 percent of its territory. The local government agreed to co-finance the preparation process that was agreed upon during the CLUP orientation and action planning.

The lessons and processes from the pilot integration of FLUP into the CLUP in Bataraza (and in El Nido) will be useful for adoption in other sites. This initiative responds to the DENR Project Steering Committee resolution to prepare processes, protocols and techniques for integrating and harmonizing the land uses in forest lands, protected areas, ancestral domains, tenured areas, reservations, and marine and coastal areas into the CLUPs in collaboration with the HLURB and the DENR.

Conservation planning in central and northern Palawan

Building on its experiences in southern Palawan, Protect Wildlife expanded its assistance for conservation planning and management activities to central and northern Palawan. The activity currently provides technical assistance to Cleopatra's Needle Critical Habitat and Puerto Princesa Subterranean River National Park in central Palawan, and El Nido-Taytay Managed Resource Protected Area in northern Palawan. These three protection and conservation areas collectively have a total area of 150,030 hectares.

Cleopatra's Needle Critical Habitat. Assistance to enhance the management of Cleopatra's Needle as a critical habitat commenced on January 2019 with an orientation for the technical working group on the planning process and the assistance to be provided by the activity. On March 26 to 27, 2019, Protect Wildlife facilitated a preliminary assessment of the management situation of the area and the initial delineation of management zones making use of spatial and non-spatial data consolidated by the technical working group. The agreed next step in April and May 2019 is to validate actual land uses through participatory mapping and field visits. This exercise will include social mobilization activities to improve community attitudes and behaviors toward the critical habitat, particularly of resident indigenous tribes such as the Batak and Tagbanua.

The formulation of a management plan for Cleopatra's Needle, with an area of 38,693 hectares, is crucial since it is one of the oldest and most diverse forests in the country. Its intact forests is home to threatened endemic specie, including the Palawan hornbill, Palawan peacock-pheasant, Palawan flycatcher, Palawan bearcat, Palawan bearded pig and Palawan flying squirrel.

Puerto Princesa Subterranean River National Park. On March 28, 2019, Protect Wildlife supported Puerto Princesa City in the initial stakeholder consultations to help jumpstart the updating of the management plan for the Puerto Princesa Subterranean River National Park, a 22,202-hectare World Heritage site that is under the management of the city LGU. More than 100 representatives from local communities, indigenous people groups, peoples' organizations, tourism operators, youth groups, education centers, religious groups and other sectors attended the activity and expressed their support for a participatory planning approach. An output of the activity is a strategy map for the preparation of the management plan.

El Nido-Taytay Managed Resource Protected Area. In northern Palawan, an El Nido composite team of GIS staff from the LGU, DENR and PCSDS has completed the validation of the actual land uses in its forest lands when the LGU realized the value of incorporating the FLUP into their CLUP. In a letter dated March

15, 2019, the mayor of El Nido requested technical assistance from Protect Wildlife for the enhancement of the municipality's CLUP. In response to the request, Protect Wildlife held a CLUP orientation for El Nido's key officials and has adjusted its technical assistance modules to allow for FLUP-CLUP integration.

Strengthening On-Site and Off-Site Law Enforcement

On-Site Enforcement in Mount Mantalingahan. On February 6, 2019, the Mount Mantalingahan PAMB approved a resolution to strengthen resource protection and law enforcement through the creation of enforcement coordinating committee and a multi-level law enforcement group. Enforcement in the protected area will address illegal logging, illegal sand quarrying, small-scale mining and wildlife trafficking. The enforcement group will work with LGUs to tackle reported illegal activities and unreported and unregulated fishing in marine and coastal areas.

To help strengthen enforcement in the protected area and nearby areas, on March 26 to 29, 2019, Protect Wildlife trained 23 barangay chairpersons (19 men and 4 women) from Mount Mantalingahan on community-based environmental law enforcement. The training clarified roles and responsibilities of various players in the enforcement organizational structure. The barangay chairpersons form part of the first level of compliance monitoring and can serve as the information network at the base of the task group. In addition to being first responders, the barangay chairpersons would take the lead in informing the communities on the need to protect Mount Mantalingahan. The trainees also agreed to inform and coordinate with the communities to report encroachments beyond zonal boundaries and report any incident of illegal resource uses in the protected area.

CWT Program in Palawan Airport and Seaports. Protect Wildlife conducted a CWT orientation for seaport and airport personnel in central and northern Palawan on January 30 to 31, 2019 in Puerto Princesa City. The orientation focused on reducing wildlife trafficking at transshipment points. Participants included representatives from CENRO and PENRO, DA-BFAR, PCSDS, PNP Maritime Group, Philippine Navy, Philippine Coast Guard, Civil Aviation Authority of the Philippines, Philippine Ports Authority, private transport groups, and LGUs of Narra, Dumarán, El Nido, Roxas, Cuyo, Araceli, San Vicente and Taytay. The participants prepared an action plan for 2019 for each port and seaport and agreed to develop localized protocols based on national wildlife enforcement protocols, improve coordination among law enforcement groups, and involve the private sector and LGUs.

Based on the interest showed by the participants in the CWT orientation, Protect Wildlife met with PCSDS on February 19, 2019 to discuss the localization of the Wild and Alive campaign in airports and seaports. Protect Wildlife agreed to develop BCC campaign materials for placements in Puerto Princesa City international airport, Puerto Princesa seaport, and the city's terminal for public utility vehicles in San Jose.

Support to BRAIN System Development. Protect Wildlife provided PCSDS with programming support for the development of the Biodiversity Resources Access Information Network system, which aims to improve cross-agency coordination and increase efficiency and effectiveness of threat monitoring and law enforcement. Currently, Protect Wildlife is supporting the development of BRAIN's online permitting system that will reduce inefficiencies for end-users in PCSDS.

Livelihood Support for Upland Communities

With the signing of the agreement with Protect Wildlife, Sunlight Foods Corporation proceeded to implement activities to establish purple yam production in southern Palawan. In coordination with municipal agricultural offices, target communities in tenured areas in Bataraza, Brooke's Point and Sofronio Española were identified and potential purple yam demonstration farm sites were determined based on soil analysis. Protect Wildlife organized community consultations and helped obtain the commitment of interested farmer-cooperators.



Protect Wildlife funded the construction of a 72-square meter farm shed for Kusor Upland Farmers Association in Bataraza, Palawan to complement their demo farm for planting and harvesting cassava, purple yam, vegetables and other high-value upland crops.

vegetables are being produced for the market.

On February 13, 2019, Protect Wildlife turned over to Kusor Upland Farmers Association in Bataraza a multi-purpose farm shed that the activity constructed. The farm shed will be used for meetings of the association, training sessions, storage of farm inputs, and sorting and storage of crops produced from the demo farm.

Investment of PES Revenues

Protect Wildlife's support to the investment of PES revenues continued to be concentrated in Brooke's Point. With the increasing PES revenues collected by the municipality, Protect Wildlife assisted the LGU to prepare a three-year work and financial plan for US\$151,340 (PHP 7.9 million) for the re-investment of PES revenues in the rehabilitation and management of the three watersheds that are the municipality's main sources of water. The work and financial plan includes investments for restoring degraded portions of the watersheds through the planting of permanent crops by community members and for the construction of a



Flyers like this are distributed to waterworks customers in Brooke's Point, Palawan to communicate the importance of PES revenues for funding local efforts in watershed conservation.

To start purple yam seedling propagation in demo farms, Sunlight Foods Corporation delivered an initial 565 kilos of purple yam planting materials (as well as the seeds of improved varieties of jackfruit and avocado). This was followed by a training and demonstration on the proper propagation of purple yam for selected members of farmers' associations, LGU agricultural technicians and other partners in Bataraza, Sofronio Española and Brooke's Point. Seedlings grown in the demo farms will then be distributed to interested farmer-members of the associations. Sunlight Foods Corporation committed to buy all the purple yam that the communities will produce.

While farm production is being diversified through the introduction of purple yam, the activity assisted farmers' associations to maintain their demo farms where cassava and

local water system for the upland community. The plan was based on consultations with community stakeholders who were previously guided by Protect Wildlife in developing individual and communal agroforestry and riverbank protection plans. The Brooke's Point Watershed Management Council adopted and endorsed the three-year work and financial plan to municipal council for final approval and implementation.

To supplement PES revenues, Brooke's Point LGU committed to allocate about US\$9,500 (PHP 500,000) from its 2019 budget for more reforestation efforts, establishment of monitoring outposts, establishment of nurseries, and construction of sanitary toilets.

To inform water users about the PES and its purpose and to encourage regular and prompt payments, the LGU was assisted in preparing informational flyers attached to water bills. Billboards have also been installed in strategic locations in the municipality. The flyers and billboards inform customers of Brooke's Point waterworks system that part of their water bill payments goes to the protection and taking care of the source of their water.

Promoting Adoption of Flagship Species by LGUs

In support of the Palawan provincial government's 2018 ordinance that prescribes guidelines for the selection and declaration of flagship species of each municipality, Protect Wildlife supported the Flagship Species Summit on February 21, 2019 for southern Palawan municipalities. Participants came from Balabac, Sofronio Española, Quezon, Bataraza, Rizal, Narra, Brooke's Point, and Aborlan, as well as representatives from Western Philippines University, Palawan State University, DENR field units and Katala Foundation. Participants in the summit agreed on the criteria for the selection of flagship species for LGUs.



Makmak the blue-naped parrot was launched as the official mascot for environmental conservation in Brooke's Point's, Palawan.

During the summit, some LGUs presented their flagship species:

- Philippine cockatoo for Narra since the municipality is the habitat of 40 percent of the remaining wild population of this critically endangered species. The flagship species was adopted through Municipal Ordinance 2018-84.
- Blue-naped parrot for Brooke's Point. The species is heavily poached and currently faces a declining population because of forest destruction, encroachment and mining in its natural habitat.

In support of this decision by Brooke's Point LGU, Protect Wildlife assisted C4C graduates from the municipality to launch their blue-naped parrot mascot named Makmak on March 15, 2019. Makmak was designed also by a C4C graduate in southern Palawan. Over 400 students, teachers and barangay officials participated in the event, where they learned about the parrot's natural habitat in Palawan and threats to its survival. The mascot was also featured in two other events in Brooke's Point: the Kaniyog'n Festival on March 18 and the Agri-World Farm Tourism Day on March 19. To continue the pride campaign, the LGU allocated a supplemental budget of US\$ 3,917.62 (PHP 200,000).

Rangers and Community Perception Survey

Protect Wildlife organized the survey of frontline rangers' attitudes and experiences toward job stress and satisfaction, rangers' relationships with communities and their workplace environment. It was first implemented in Mount Mantalingahan, where a total of 911 community members and 65 enforcers were surveyed. The ranger survey was eventually expanded to include forest rangers in four other protected areas in Palawan: Puerto Princesa Subterranean River, Malampaya Sound, Tubbataha Reefs and El Nido-Taytay.

3.2.2 OTHER PALAWAN-BASED ACTIVITIES

FOCAL AREA	SA	ACTIVITY	DATE
Mount Mantalingahan / LGUs	SA 2 / M&E	Interviews and focus group discussion with Kusor Upland Farmers Association in Barangay Inogbong, Bataraza for Learning Question in SA 2 Theory of Change	January 22-25, 2019
	SA 2 / M&E	Interviews and focus group discussion with stakeholders (PES beneficiaries) in Barangay Mainit in Brooke's Point for Learning Question in SA 2 Theory of Change.	February 5-8, 2019
	SA 2 / M&E	Focus group discussion with seaweed farmers in Barangays Isugod, Aramaywan and Panitian in Quezon for Learning Question in SA 2 Theory of Change	February 11-14, 2019
Tubbataha Reefs	SA 1	Training-workshop for staff and volunteers of Tubbataha Reefs Natural Park on digital content and social media strategy for Reefs for Keeps campaign	January 16-18, 2019
Central and Northern Palawan	SA 1	Writeshop with C4C trainees in Central-Northern Palawan to develop their BCC campaign proposals	February 19-22, 2019
Rasa Island / Narra	SA 4	Sandfish growth and survival monitoring by the Western Philippines University research team and technical consultant in Rasa Island and Barangay Caguisan, Narra	February 15-17, 2019
	SA 4	Discussions with municipal agriculturist on development of a sandfish management plan for Barangay Caguisan	February 18, 2019
Victoria-Anepahan Mountain Range	SA 4	Presentation of Palawan pangolin research study to municipal council of Aborlan	January 14, 2019
	SA 4	Presentation of Palawan pangolin research study to barangay council of Isugod, Quezon	January 18, 2019
	SA 4	Traditional ritual by Tagbanua tribal leaders in Barangay Aporawan, Aborlan to welcome the research team	February 11, 2019
	SA 4	Presentation of pangolin research study to ancestral domain management council of Napsan-Simpocan-Bagong Bayan, Puerto Princesa City	February 15, 2019
Mount Mantalingahan	SA 4	Completion of ranger and community perception surveys in Mount Mantalingahan. The survey covered a total of 65 active rangers and WEOs and 870 households in 31 barangays	February 14, 2019
Tubbataha Reefs / Puerto Princesa Subterranean River	SA 4	Completion of the expanded ranger perception survey for Tubbataha Reefs and Puerto Princesa Subterranean River	March 4-8, 2019
Busuanga	SA 5	Participation in USAID Fish Right Learning Event. Fish Right presented its objectives and planned activities for the next five years.	January 16, 2019
Western Philippines University	SA 4	Workshop to continue the preparation of course syllabi and teaching tools and materials for Marine Biology curriculum of Western Philippines University	January 28-30, 2019
Palawan State University	SA 4	Workshop to continue the preparation of course syllabi and teaching tools and materials for the enhancement of the Marine Biology curriculum of the Palawan State University	February 1-2, 2019
	SA 4	Second workshop on the enhancement of the Bachelor of Science in Environmental Science curriculum of Palawan State University	February 19-20, 2019
	SA 4 / SA 5	Orientation on Forestry, Wildlife and Protected Area Laws for Palawan State University College of Criminal Justice and Education	March 15, 2019
Palawan	SA 2	Forum on Sustainable Ecotourism Practices to Safeguard Palawan's Biodiversity	March 11-12, 2019

3.2.3 PLANS FOR NEXT QUARTER

SA 1: Behavior Change Communication

Theory of Change Result: Foundational knowledge improved

- Prepare and implement social research design to measure SA 1's learning question on effective messaging in Barangay Quinlogan, Quezon.
- Pre-test knowledge, attitudes and practices (KAP) survey through 40 wildlife law enforcement volunteers in Cleopatra's Needle.
- Pre-test, finalize and incorporate basic conservation module in community activities.

Theory of Change Result: Improved community attitudes toward conservation

- In partnership with PCSDS, engage short-term consultants to support localization of Wild and Alive campaign in Palawan airports and seaports.
- Support PES campaign in the municipality of Rizal.
- Engage short-term consultants to support up-scaling of the Kagubatan ay Kinabukasan (Our Forest is Our Future) campaign in Mount Mantalingahan during the protected area's 10th anniversary on June 23, 2019.
- Continue support to C4C trainees on refining their mini-behavior change campaign logic models and theories of change, and designing and launching their campaigns.

SA 2: Conservation Financing

Theory of Change Result: Opportunities for new conservation financing arrangements identified and designed with partners

- Explore additional PES opportunities for water and ecotourism in central and northern Palawan.
- Hold organizational development and management training for partner peoples' organizations.

Theory of Change Result: Government and CSOs implement financing arrangements

- Continue monitoring PES accounts in Rizal and initiate PES re-investment in watershed rehabilitation.
- Continue monitoring PES accounts in Brooke's Point; facilitate implementation of PES three-year work and financial plan.
- Promote ECLOF's loan packages for upland and permanent crops.
- Identify support needs of farmers associations engaged in improved cropping systems and link with LGUs and other source of support.
- Identify opportunities for Abraham Holdings support and facilitate implementation arrangements.

Theory of Change Result: Existing and new funds established for investments supporting biodiversity conservation

- Support PCSDS and provincial government in developing province-wide PES policy.

Theory of Change Result: Social, economic and environmental benefits for communities, revenues for LGUs and profit/goodwill for private sector generated

- In collaboration with SA 3, organize consultations with barangay leaders and tenure holders in forest lands and protected areas to identify and determine areas and participants for supporting fuelwood lots and agroforestry farms.
- Organize activity-sourced inputs to accelerate development of agroforestry and fuelwood plantations.

SA 3: Conservation and Governance

Theory of Change Result: Increased capacity of relevant government agencies, LGUs, PAMBs and CSOs in integrated resource planning and management

Mount Mantalingahan

- Assist the LGUs with legitimized plans to prepare detailed implementation work plans for at least the initial two years, with corresponding policy support and budgets.
- Provide technical support to data gathering and analysis for Bataraza CLUP.

Puerto Princesa

- Conduct stakeholder and gender analysis of communities in forest lands and protected areas.
- Complete FLUP data analysis.
- Validate land and resource uses in Cleopatra's Needle Critical Habitat.
- Facilitate stakeholder workshop on issues and benefits on actual land and resource uses in Cleopatra's Needle.
- Provide technical assistance in the analysis of management situation in Puerto Princesa Subterranean River.

El Nido

- Conduct stakeholder and gender analysis.
- Complete sectoral, inter-sectoral and cross-sectoral data analysis for FLUP.
- Facilitate community focus group discussions and participatory mapping with fisherfolks for CLUP preparation and updating.
- Conduct community training on integrated conservation and development.

SA 4: Conservation Research

Theory of Change Result: Capacity of universities to leverage funds, do research and curriculum development, and disseminate research results increased

- Facilitate conduct of fuelwood supply and demand study in Puerto Princesa by Palawan State University.
- Facilitate conduct of medicinal plants study in Cabayugan ancestral domain by Holy Trinity University.

Theory of Change Result: Science-based information for policy-makers, program designers and enforcement agencies

- Present sandfish study results to Rasa Island PAMB, Narra LGU and PCSDS.
- Facilitate workshop on the development of sandfish management plan in Narra.
- Complete the pangolin ground survey in remaining plots in Quezon and Puerto Princesa.
- Consolidate information and publication on biodiversity focal interests and threats in Cleopatra's Needle and El Nido.
- Present and demonstrate teaching tools and materials for Bachelor of Science in Marine Biology of Western Philippines University and Palawan State University
- Present teaching tools and materials for Bachelor of Science in Environmental Science of Palawan State University.
- Approval of syllabus for Environmental Law and Protection for Bachelor of Science in Criminology course of Western Philippines University, Palawan State University and Holy Trinity University; submission to Commission on Higher Education Technical Panel for Criminology Program; and preparation of instructional materials.

SA 5: Wildlife Law Enforcement

Theory of Change Result: National and local law enforcement capacity improved

- Continue support in the development of BRAIN system for PCSDS.
- Follow up flagship species ordinances in southern Palawan municipalities.
- In partnership with the provincial government of Palawan, facilitate a Flagship Species Summit for northern Palawan and Puerto Princesa City.
- Finalize law enforcement protocol in Mount Mantalingahan.
- Facilitate consultation and planning workshop to address human-crocodile conflict and habitat assessment and status of endemic mouse deer in Balabac.
- Support the enhancement of the evidence museum and forensics laboratory for the PCSDS Biodiversity Resource Center.

3.3 ZAMBOANGA CITY-SULU ARCHIPELAGO

3.3.1 HIGHLIGHTS FOR THE QUARTER

- Completion of the management plans of two protected areas and initial actions
- Zamboanga City FLUP finalization and implementation
- Improved management of Bud Bongao Eco Forest Park
- FLUP in Isabela City, Basilan

Completion of Pasonanca and Santa Cruz Management Plans and Initial Actions



USAID and the Protect Wildlife team and partners presented to Zamboanga City Mayor Maria Isabelle Climaco the five-year management and development plans for the city's two protected areas: Pasonanca Natural Park and Great and Little Santa Cruz Islands Protected Landscape and Seascape.

Two protected areas—the 17,414-hectare Pasonanca Natural Park and the 3,425-hectare Great and Little Santa Cruz Islands Protected Landscape and Seascape—have been the focus of Protect Wildlife's assistance for Zamboanga City. Commenced in February 2017, the planning process was highly participatory, with communities within the Pasonanca Natural Park and its buffer zones and in Santa Cruz Islands actively participating in land and resource use deliberations and decisions.

The completed management plans of Pasonanca Natural Park and Santa Cruz Islands were presented to their respective management boards on February 15, 2019 and February 20, 2019, respectively. Both were immediately approved for implementation.

Even before its formal approval, a number of immediate implementation actions were being taken, particularly on enforcement. On January 22 to 24, 2019, Protect Wildlife organized a three-day workshop for the drafting of the enforcement protocol, plans and manual of operations for each of the protected areas. These were revisited in February to more clearly define the coordination structure and mechanisms. The enforcement protocols for Pasonanca Natural Park address violations of environmental laws and aid law enforcers and agencies in filing of appropriate administrative and criminal case involving environmental offenses. The manual of operations for Santa Cruz Islands provides for systems and processes that support conservation actions that the protected area management office may implement.

In Pasonanca Natural Park, the PAMB resolution that recognizes the Zamboanga City Water District's annual budget allocation for watershed protection and conservation as PES is significant as it provides a mechanism for sustaining funding for protection and conservation. For Santa Cruz Islands, the Zamboanga City LGU recommended that activities of the management office be allocated a separate budget through the assignment of a Major Final Output for the protected area.

Zamboanga City FLUP Finalization and Implementation

During the quarter, Protect Wildlife organized a series of workshops and writeshops and provided the technical working group with consultancy support to complete the draft of the city's FLUP. A clean draft is expected to be available by the third week of May for technical deliberation by the DENR Region 9 FLUP Committee.

As the FLUP is being finalized, some implementation activities have been started. The Ayala and Manichan watershed management plans are being updated. On February 11 to 15, 2019, a workshop on watershed management data enhancement was held, wherein barangay representatives were trained on use of GPS to locate areas of interest in their respective barangays that will improve the descriptive and spatial information in the watershed management plans. A review of the co-management agreement between the DENR and city government for these watersheds was initiated and revisions have been proposed in the light of the current realities in these watersheds.

For mangrove areas in Mampang and Talon-talon, consultations have been done with fisherfolk associations and other stakeholders to look into the tenure arrangements that will work in these sites. Tenure interventions in these areas are expected to benefit 1,059 and 1,505 household in upland and coastal communities, respectively.

Improved Management of Bud Bongao

Protect Wildlife has been assisting the Bud Bongao Management Council in the review and refinement of their management plan. This quarter, the activity facilitated the finalization of the map showing management zones of Bud Bongao and management prescriptions and strategies for each of the zones. The management council and the Bongao LGU finance committee completed a five-year work and financial plan that covers enforcement, habitat and ecosystems management, policy, ecotourism, general administration and management.



Protect Wildlife supported the Bud Bongao management council in updating the map and signages in their forest park to promote responsible ecotourism when visiting the peak.

As a parallel activity, Protect Wildlife supported the development of financial management guidelines for the revenues of Bud Bongao from the collection of environmental user's fees. Since 2018, the total fee collection amount to an average of US\$1,000 (PHP 52,000) per month. Clear financial management guidelines are needed to ensure transparency in the reporting of revenues and that funds are used for the management of the forest park. The LGU is yet to issue an executive order or a resolution adopting the guidelines.

Protect Wildlife also assisted the management council and the LGU in developing park signages that carry conservation messages promoting the ecological and cultural significance of Bud Bongao. An initial set of billboards were unveiled and tested during the Bud Bongao Day celebration on March 1, 2019.

FLUP in Isabela City, Basilan

Despite being the capital of Basilan province in the Bangsamoro Autonomous Region in Muslim Mindanao, Isabela City falls under the jurisdiction of CENRO Zamboanga City. Isabela City effectively serves as DENR Region 9's practicum area where they apply their learnings on FLUP that were acquired from their experience in Zamboanga City. Isabela City has a total land area of 22,864.76 hectares, 51.67 of which are forest lands.

The city's multi-disciplinary technical working group has completed FLUP modules on sectoral, inter-sectoral and cross-sectoral analysis of FLUP-CLUP data, and on policy and data analyses of allowed and disallowed land and resource uses in protection, conservation and production areas in forest lands. The GIS team, with

support from Protect Wildlife, has generated the required thematic maps. Preparations are underway for the community validation of land uses.

3.3.2 OTHER ZAMBOANGA CITY-SULU ARCHIPELAGO-BASED ACTIVITIES

FOCAL AREA	SA	ACTIVITY	DATE
Western Mindanao State University	SA 4	Workshop on the refinement of the Bachelor of Science in Environmental Science curriculum of Western Mindanao State University	January 10-11, 2019
Zamboanga State College of Marine Sciences and Technology	SA 4	Workshop to continue the enhancement of the Marine Biology and Fisheries Courses of Zamboanga State College of Marine Sciences and Technology	January 16-18, 2019
Ateneo de Zamboanga University		Youth Environmental Leadership Camp organized by Ateneo de Zamboanga University	February 1-3, 2019
Mindanao State University-Tawi-Tawi College of Technology and Oceanography	SA 4	Meeting with the chancellor and research director to finalize the design and implementation plan for the proposed seaweeds research study: Enhancing Seaweed Production and Quality in Tawi-Tawi Using Laboratory-Generated Cultivars	February 19, 2019
Zamboanga State College of Marine Sciences and Technology	SA 4	Research preparation workshop with Zamboanga City development planning, fisheries and tourism offices	March 5-7, 2019
Zamboanga State College of Marine Sciences and Technology		Symposium on Biodiversity Conservation: Highlighting the Multi-Agency Conservation Initiatives on Coastal and Marine Conservation. The event was held in conjunction with the celebration of World Wildlife Day.	March 6, 2019
Tawi-Tawi	SA 5	Orientation for the Tawi-Tawi Anti-Wildlife Trafficking Task Force on the Wildlife Act, protected species of Tawi-Tawi, and covenant of the task force.	March 21, 2019
Zamboanga City		ZCWD World Water Day celebration at Banuang Science and Research Center in Pasonanca watershed	March 22, 2019
Zamboanga City		Water, Energy and Power Summit sponsored by the city government and USAID SURGE activity	March 26, 2019

3.3.3 PLANS FOR NEXT QUARTER

SA I: Behavior Change Communication

Theory of Change Result: Foundational knowledge improved

- Finalize report on KAP results for discussion with stakeholders.
- Conduct KAP surveys in Pasonanca Natural Park and Bud Bongao conservation areas.

Theory of Change Result: Improved community attitudes toward conservation

- Relaunch the Protect Our Paradise campaign for Santa Cruz Islands.
- Development of three design studies for new Santa Cruz Islands logo.
- Develop local Wild and Alive campaign for Turtle Islands, including a flipchart on marine turtle species.
- Set up the Tawi-Tawi Cascade of Wild and Alive Campaign at Bongao airport and seaport and other strategic areas in Bongao.

SA 2: Conservation Financing

Theory of Change Result: Available conservation financing arrangement are identified and realigned to support conservation

- Complete the cost-based resource valuation for Pasonanca Natural Park.

Theory of Change Result: Opportunities for new conservation financing arrangements identified and designed with partners

- Facilitate issuance of an Executive Order providing guidelines of the financial management of Bud Bongao collection and management of fees.
- Operationalize the improved PES mechanism in Santa Cruz Islands.

SA 3: Conservation and Governance

Theory of Change Result: Increased capacity of relevant government agencies, LGUs, protected area management boards and CSOs in integrated resource planning and management

- Facilitate orientation on ENIPAS and its implementing rules and regulations, and Integrated Protected Areas Fund for PAMB members of Region 9 protected areas, including Pasonanca Natural Park and Santa Cruz Islands.
- Organize investment forum in support of the approved Santa Cruz Islands management and development plan.
- Facilitate installation of buoys to demarcate and protect coral reefs in Santa Cruz Islands.
- Train PAMB members on roles and functions pursuant to ENIPAS and its implementing rules and regulation, including development of PAMB Manual of Operations.
- Complete all the analysis for FLUP of Isabela City.
- Draft FLUP of Zamboanga City with summary section for presentation to DENR Region 9 and Zamboanga City government.
- Facilitate agreements for DENR-LGU tenure issuance and resolution of property rights issues in Ayala and Manichan watersheds based on agreements in the updated management plans.
- Facilitate a workshop to determine the appropriate tenure for mangrove areas in Mampang and Talon-talon as part of the draft memorandum of agreement between DENR Region 9, Zamboanga City and the community occupants.
- Finalize Bud Bongao management plan and support its legitimization and approval.
- Provide assistance in the assessment, mapping and legitimization of Upper Malum Watershed with Bangsamoro Autonomous Region in Muslim Mindanao, Panglima Sugala LGU and communities.

SA 4: Conservation Research

Theory of Change Result: Colleges and universities have increased capacity to align their RDE with stakeholders' priorities and needs

- Implement research on coastal resource assessment for marine protected area establishment in Eleven Islands in Zamboanga City.
- Facilitate implementation of research of Mindanao State University-Tawi-Tawi College of Technology and Oceanography on seaweeds in Tawi-Tawi.

Theory of Change Result: Capacity of universities to leverage funds, do research and curriculum development, and disseminate research results increased

- Conduct Training on Teaching Tools and Materials (Assistance on curriculum development for Zamboanga State College of Marine Sciences and Technology's selected courses on Bachelor of Science in marine biology, aquaculture and fisheries).
- Hold a workshop on the preparation of instructional materials for Bachelor of Science in Environmental Science for Western Mindanao State University.
- Discuss arrangements for the leadership or participation of Mindanao State University-Tawi-Tawi College of Technology and Oceanography in the assessment of Napoleon wrasse spawning aggregation marine protected areas in Sibutu and Sitangkai, and Simalak Mangrove Assessment of Mangrove Aquasilviculture.
- Discuss possible support for Tawi-Tawi Regional Agricultural College and Mahardika Institute of Technology program on Criminal Justice Education of their Environmental Law Enforcement and Protection Syllabi as prescribed in their Bachelor of Science in Criminology curriculum.
- Facilitate enhancement of the Mindanao State University-Tawi-Tawi College of Technology and Oceanography curriculum in Bachelor of Science in Environmental Science, Bachelor of Science in Fisheries and Bachelor of Science in Marine Biology related to biodiversity conservation and environmental law and protection.

SA 5: Wildlife Law Enforcement

Theory of Change Result: Needs, gaps, resources and core competencies on/for wildlife enforcement understood

- Discuss and develop a more sustainable capacity building program for Composite Fisheries Law Enforcement Team and Zamboanga City Anti-Wildlife Trafficking Task Force, including Office of the City Agriculturist and Office of the City Environment and Natural Resources as coordinating centers for reports, databases and holding of quarterly meetings
- Organize ceremonial signing of Tawi-Tawi Anti-Wildlife Trafficking Task Force covenant.
- Conduct enforcement coaching and flagship species orientation in Panglima Sugala.
- Support the Turtle Islands Wildlife Sanctuary learning event.

- Facilitate the approval and adoption of the Blue Crab Fisheries Management Ordinance by the municipal council of Panglima Sugala.
- Conduct enforcement coaching for trained and deputized Bantay Dagat (sea patrols) and Bantay Kalikasan (forest rangers) of Panglima Sugala, Tawi-Tawi.

Theory of Change Result: National and local enforcement capacities to detect, inspect and prosecute improved

- Finalize Manual of Operations for the protected area management office of Santa Cruz Islands.
- Finalize enforcement protocols of Pasonanca Natural Park.
- Coach and mentor the protected area management office of Santa Cruz Islands and Bantay Kalikasan members to improve operations and enforcement practices in Santa Cruz Islands, including simulation exercises.

3.4 GENSAN-SARANGANI-SOUTH COTABATO

3.4.1 HIGHLIGHTS FOR THE QUARTER

- Zoning of Mount Matutum Protected Landscape
- Validation of land and water uses in Sarangani Bay Protected Seascape
- Scaling up of PES schemes in Region 12

Validation and Zoning of Land and Water Uses

Mount Matutum Protected Landscape. This quarter, the Mount Matutum technical working group completed its recommended management zones for the protected area. The group agreed to establish these sub-zones within the multiple-use zone: settlement, ecotourism, recreation, agriculture, agro-forestry and livelihood.

On March 12, 2019, the technical working group presented its recommended management zones and the corresponding allowed and disallowed land and resource uses to the PAMB for approval. The protected area supervisor suggested to one barangay official that the recommended zones be revalidated with his constituents. As a result, the adoption of zones by the PAMB was put off until the revalidation is completed. Protect Wildlife will facilitate the revalidation process and support the technical working group in presenting the management zones anew.

The zoning recommendations of the technical working group is the result of months of validation and mapping work that entailed stakeholder consultations and analysis, delineation and field validation of 6,228 hectares of strict protection zone and 7,719 hectares of multiple-use zones, and consensus on what may be allowed and should be disallowed land and resource uses per zone. These activities were carried out in 14 barangays in the four municipalities that cover the Mount Matutum Protected Landscape. Hundreds of community members participated in the community validation of land uses.

To deepen the understanding of community members on biodiversity conservation, Protect Wildlife has organized the training of these community members on Integrated Conservation and Development in batches. On January and February 2019, two batches of participants with a total of 141 individuals attended the training. More batches are programmed for training next quarter.

The Protect Wildlife team noted significant improvement in terms of gender engagement in Mount Matutum. In an analysis of participants in the Integrated Conservation and Development trainings, the team found that female participation increased from 18 percent in 2018 to 46 percent in 2019. The activity attributes this increase in part to DENR Region 12's campaign, supported by Protect Wildlife, to mainstream gender in the planning and implementation of activities.

Sarangani Bay Protected Seascape. DENR Region 12, the Sarangani Bay Protected Seascape management board, and the seven LGUs that cover the protected area agreed to modify the initial delineation of the management zones of Sarangani Bay. Protect Wildlife supported the decision and funded a series of field validation activities, after the initial identification and delineation of major biodiversity assets and other unique areas within the protected seascape. The validation was carried out in 66 coastal barangays from the six municipalities of Sarangani province and General Santos City. More than 500 individuals participated in the series of validation work. These activities facilitated the systematic collection of standardized information about the existing coastal and marine resources, habitats, and land and water uses within the 210,883-hectare protected seascape.

Validation teams found out that several areas declared as marine protected areas or sanctuaries are degraded and some have been converted to other uses, such as for recreation and settlements. The team identified areas where there are regular sightings of the dugong, whale sharks and dolphins, and where marine turtles nest. The team also observed mixed-wastes throughout the bay and identified the potential sources of these, including residential areas, industries, establishments, machineries, and ships and boats along the bay. Discussions with communities revealed that the conversions of mangroves to fishponds or industrial or commercial uses remain significant.

Separate from the validation activities being carried out in the protected seascape, Protect Wildlife co-led the ocular inspection and assessment of identified marine turtle nesting sites and hatchery facilities along Sarangani Bay. The activity was carried out for the purpose of networking the different nesting sites, adoption of standards in the management and protection of nesting sites and handling of turtles, and exploring the feasibility of establishing a marine turtle rescue center for Sarangani Bay. The study was conducted by a team that included two partner foundations—Alcantara Foundation and RD Foundation—who have both expressed interest to support conservation programs.

The results of both validations will provide valuable inputs to the delineation of management zones of the protected seascape, which will be the main activity for Sarangani Bat next quarter.

Scaling Up Payment for Ecosystem Services

Mount Matutum and its surrounding areas are the headwaters of four major watersheds that supply at least 25 percent of domestic, agricultural, industrial and commercial water needs of four municipalities and General Santos City. In view of this, on March 12, 2019, the Mount Matutum PAMB issued a resolution for establishing PES schemes for users of ecosystem goods and services that are coming from the protected area and its surroundings. The resolution provided the needed support for Protect Wildlife's plans of assisting 27 water utilities operating in Tupi, Tampakan, Malungon, Polomolok and General Santos City to establish PES schemes.

During the quarter, Protect Wildlife initiated PES training activities along two tracks: cost-based valuation of ecosystem services, and cost and revenue analysis of enterprises using ecosystem services. These complementary tools are designed to help water utilities make rational decisions on fee rates.

Four PES modules were held in Region 12 during the quarter. Those who have gone through at least one module are four water districts, one LGU (waterworks and septage treatment), and 22 rural waterworks and sanitation associations.

Inventory and Scientific Validation of Folklore Medicinal Plants

After months of waiting for the issuance of its NCIP permit, the research team of Mindanao State University-GenSan was finally able to start its field activity for the research titled “Inventory and Scientific Validation of Folklore Medicinal Plants in Mount Matutum Protected Landscape.” The aim of the research is to investigate and generate knowledge on the medicinal, nutraceutical and nutricosmetic potential of indigenous plants for medicinal purposes. Part of the objectives of the university is to establish a herbarium for medicinal plants within its campus that could eventually serve as a regional facility.

The main data collection methods that the research team used are focus group discussions, key informant interviews and specimen collection. For the latter, the research team was given an orientation and a field demonstration on specimen collection and preparation by the team’s taxonomist last January 7 to 8, 2019. Within the month of March, the team covered three of the five study barangays located within Mount Matutum. It is expected that all field activities will be completed next quarter. This will allow the team to focus on setting up the herbarium and developing the compendium, database and photo bank, which are the main outputs of the study.



The research team from Mindanao State University-GenSan organized the specimens they collected from Mount Matutum as part of their study on local medicinal plants in the protected area.

Livelihood Support

Under the FSSI partnership, Protect Wildlife assisted the United Maligang Farmers Multipurpose Cooperative in Sarangani in preparing their proposal for funding of their abaca-based enterprise. This quarter, the group completed their proposal that require a total amount of PHP 5 million for FSSI evaluation and funding. Once the proposal is approved, the enterprise will generate livelihood and income for at least 785 individual members living in conservation and public land areas.

Also under the FSSI partnership, Protect Wildlife facilitated the preparation, negotiation and submission of livelihood and enterprise proposals of Polo Samahang Nayon Multipurpose Cooperative for cassava processing and Tupi Coffee Growers Association, Inc. in Mount Matutum.

BCC Campaign

Protect Wildlife participated at the Amyak Maleh celebration on March 18 to 22, 2019, which highlighted the conservation and protection efforts of all stakeholders within the Mount Matutum Protected Landscape. C4C graduates in the region were tapped to launch their campaign for Mount Matutum in Barangay Linan in Tupi, where 70 schoolchildren and teachers participated in their BCC session. Protect Wildlife also sponsored activities during the weeklong celebration, including a Mount Matutum photo exhibit at a mall and Cinema22m Film Festival, an environmental short film competition.

3.4.2 OTHER REGION 12-BASED ACTIVITIES

FOCAL AREA / PARTNER	SA	ACTIVITY	DATE
Region 12	SA 1	Writeshop with the 22 C4C graduates to prepare BCC campaign proposals	January 23-25, 2019
Region 12		Women's Day celebration of DENR Region 12 at KCC Mall of Marbel, Koronadal City, South Cotabato	March 8, 2019
Sarangani Bay	SA 4	Mobilization and training of the survey team for the ranger and perception study in Sarangani Bay	February 6-8, 2019
Allah Valley	SA 3	DENR and LGU technical working group workshop to review and consolidate data for forest land use plans of four LGUs in South Cotabato: Banga, Norala, Tantaran, Surallah and Koronadal City	March 11-12, 2019
General Santos	SA 3	Celebration of World Water Day. Attendees of this activity include officers from water utility companies in General Santos.	March 22, 2019
Mount Matutum	SA 4	Implementation of research and inventory on medicinal plants (NCIP issued certificate of pre-condition)	January-March 2019
Mount Matutum	SA 4	Initial implementation discussion on the implementation of new research in on Floristics and Dynamics of Pteridophytes in Mount Matutum	January-March 2019

3.4.3 PLANS FOR NEXT QUARTER

SA 1: Behavior Change Communication

Theory of Change Result: Improved community attitudes toward conservation

- Engage short-term consultants in follow-up training on preparing BCC proposals for review and implementation.
- Support the Sarangani Bay Festival and launching of a BCC campaign.

SA 2: Conservation Financing

Theory of Change Result: Available conservation financing arrangements are identified and realigned to support conservation

- Explore and discuss with possible for-profit private sector partners in Region 12 to support conservation, enforcement, BCC, research and livelihood activities.
- Complete all PES modules (resource valuation and cost and revenue analysis) and convene negotiation meetings with DENR and concerned LGUs for determining PES rates and next steps.
- Carry out initial PES assessments of ecosystem goods and services in Sarangani Bay and Allah Valley and the enterprises and livelihoods that depend on these services.

Theory of Change Result: Opportunities for new conservation financing arrangements identified and designed with partners

- Facilitate FSSI field visit to United Maligang Farmers Multipurpose Cooperative and other potential people's organizations for FSSI financing.
- Organize and conduct United Maligang Farmers Multipurpose Cooperative strategic planning.

- Conduct convergence planning to organize and strengthen the Knoon Highland Farmers Association in T'Boli to discuss possible preparation of enterprise proposals.
- Assist the proponent in discussing the first draft of loan proposal, including the ensuing refinements and submission of proposal to FSSI, for a credit line for coffee processing and trading of Tupi Coffee Growers Association, Inc.
- In collaboration with other SAs, organize a partners' forum for marine turtles in Sarangani. The forum will discuss possible financing sources and commitments for funding the protection, restoration and management of identified marine turtle nesting sites in Sarangani Bay.
- Facilitate the presentation of first draft of loan proposal, refinements and submission of proposal to FSSI for a fixed-asset loan for cassava processing of Polo Samahang Nayon Multipurpose Cooperative.

SA 3: Conservation and Governance

Theory of Change Result: Increased capacity of relevant government agencies, LGUs, PAMBs and CSOs in integrated resource planning and management

- Organize stakeholders' meetings and orientation for piloting the harmonization of land use data in public domains and the localization of PBSAP in South Cotabato after the national and local elections.
- Conduct the final Sarangani Bay technical working group workshop on the final management zones and allowed and disallowed uses and facilitate their endorsement to the PAMB.
- Complete all the Integrated Conservation and Development training activities in Mount Matutum and Sarangani Bay in preparation for the drafting of the updated FLUPs of LGUs and the Sarangani Bay Protected Seascape management plan.
- Conduct training on the use of GIS for land use planning and support for sectoral, inter-sectoral and cross-sectoral analysis for the FLUPs of non-protected area LGUs in South Cotabato

Theory of Change Result: PAMB formulated improved policies for better protected area management

- Facilitate PAMB resolution for the recommended zoning regime for Mount Matutum supported with barangay resolutions.

SA 4: Conservation Research

Theory of Change Result: Universities have increased capacity to align their RDE with stakeholders' priorities and needs

- Continue to support Mindanao State University in General Santos City in the conduct of community FGDs and collection of medicinal plants specimen in target barangays.
- Continue to discuss Notre Dame of Dadiangas University's interest to develop a proposal for the establishment of a conservation-linked social and biological laboratory in Sarangani Bay.
- Continue providing logistical and technical support for ongoing research activities

SA 5: Wildlife Law Enforcement

Theory of Change Result: Needs understood

- Organize and conduct pre-validation and reconnaissance of Balut Island as a major transshipment point of illegal wildlife trade in Mindanao. Balut Island is the main entry point for illegal wildlife that ultimately ships through the port in Glan and other small ports in Sarangani Bay.

Theory of Change Result: National and local law enforcement capacity improved

- Conduct the forestry and wildlife law enforcement training for barangay captains and members of Allah Valley and Mount Matutum PAMBs.
- Conduct the forestry and wildlife law enforcement training for the provincial league of local environment and natural resources officers.

3.5 REGION 3: AURORA, NUEVA ECIJA AND MANILA BAY

This quarter, Protect Wildlife officially started its activities in Region 3 by discussing the objectives, strategies and targets with DENR Region 3 and representatives from its field units, especially from Aurora, Nueva Ecija and Bataan provinces. The activity carried out field visits and consultations with potential LGU partners and organizations in the three provinces. A multi-sectoral and inter-agency violations assessment was carried out with the stakeholders and partners in Maria Aurora Memorial National Park and the adjacent Mount Mangan area. On January 31 to February 1, 2019, DENR Region 3 partners worked with the team to identify priority implementation activities for the period of April to June 2019 and for July to September 2019.

Protect Wildlife has started setting up a field office in Palayan City because of its strategic location between the DENR Regional Office in San Fernando City, Pampanga and DENR PENRO offices in Palayan City and Baler, Aurora.

3.5.1 PLANS FOR NEXT QUARTER

SA 1: Behavior Change Communication

Theory of Change Result: Improved community attitudes toward conservation

- Cascade localized versions of CWT campaign for Clark Airport and Subic Port.

SA 2: Conservation Financing

Theory of Change Result: Available conservation financing arrangements are identified and realigned to support conservation

- Assess the completed PES-related activities on water in Mariveles and Bagac, Bataan and develop an action plan with LGU partners and DENR field units for completing the PES arrangements.
- Assist the PAMB of Aurora Memorial National Park to refine or improve current guidelines for generating PES as part of the Integrated Protected Areas Fund.
- Conduct assessment and determine assistance for Baler LGU in implementing its environmental fee system that is linked with its tourism program and those of Aurora Memorial National Park.

SA 3: Conservation and Governance

Theory of Change Result: Increased capacity of relevant government agencies, LGUs, PAMBs and CSOs in integrated resource planning and management

- Assist in updating the Aurora Memorial National Park management plan as a pilot for capacitating DENR Region 3 counterparts from other ENIPAS areas in planning and implementing conservation programs in protected areas.
- Carry out consultations and assessment with DENR field units, LGUs of Aurora and Nueva Ecija, community leaders and CSOs operating in the area for the possible establishment of Mount Mingan as a stakeholder of the four ENIPAS sites in northern Aurora.
- Work with DENR Nueva Ecija and Aurora in determining possible areas for developing fuelwood lots with communities in Aurora Memorial National Park and nearby areas.
- Organize and conduct consultations and facilitate consensus on how to pilot the harmonization of land use data of DENR-FMB and DENR-BMB in Aurora as the basis in piloting the preparation of the local PBSAP for Aurora.
- Assess Aurora province's expressed interest during initial consultations to strengthen and enhance its bamboo development program with its advisory council.
- As part of the Manila Bay work plan, identify and assess opportunities for enhancing protection and restoration of mangroves and bird habitats in Pampanga and Bataan.
- Identify and assess opportunities for protecting nesting sites of green sea turtles in Bataan (and Cavite).

SA 4: Conservation Research

Theory of Change Result: Capacity of universities to leverage funds and do research and curriculum development and disseminate research results increased

- Explore with Pampanga State Agricultural University or other regional universities, such as Aurora State College of Technology, Nueva Ecija University of Science and Technology, and Central Luzon State University interest to prepare a proposal on the supply and demand of fuelwood from Aurora, Pampanga and Nueva Ecija, since Region 3 is a major supplier of charcoal and fuelwood to Metro Manila.

SA 5: Wildlife Law Enforcement

Theory of Change Result: Needs understood

- Assess the capacities of DENR, law enforcement agencies and non-law enforcement agencies on environmental law enforcement as one of the inputs in developing an appropriate capacity building program.
- Conduct a region-wide violations assessment in Region 3 as input to developing BCC campaigns, designing training programs for regional and provincial counterparts, and directing enforcement unit in developing their operational plans.

Theory of Change Result: National and local law enforcement capacity improved

- Work with the DENR Regional Office and CENROs to develop monitoring systems in identified wildlife trafficking hotspots in Region 3.
- Improve the enforcement program and capacities of WEOs and provide assistance in having them deputized by the DENR.
- Assist LGUs and Aurora Memorial National Park in developing their enforcement programs as part of the protected area and FLUP or CLUP planning and implementation.

4 MANAGEMENT AND ADMINISTRATION

This section provides highlights and summary of the financial performance and human resources and operational activities resulting from various key actions by the management team.

4.1 MANAGEMENT AND OPERATIONS

The Chief of Party, Deputy Chief of Party, Finance and Operations Director and Field Managers continued to lead, coordinate and manage the day-to-day operations and implementation activities of Protect Wildlife. DAI Headquarters continued to provide backstop administrative, finance and technical support and guidance on implementation concerns.

3.1.1 HIGHLIGHTS

1. Recruited an additional nine professionals during the third quarter of Year 3, bringing the total onboard staff to 95. Of the nine new hires, two are new long-term employees, including the Field Site Manager for the new office in Region 3. Seven new short-term consultants were recruited to complement the technical teams on wildlife law enforcement and BCC campaigns.
2. Approved the separation of two staff from the activity who decided to end their contracts. These are the SA 4 Advisor and the Field Procurement and Logistics Officer in Palawan. The recruitment for the replacements of both positions are still ongoing.
3. Continued to recruit additional 24 professionals to augment the skills and capacities of the team in the areas of business development, BCC campaigns, policy development, environmental law enforcement and programming; and to work as field staff in Region 3.

A summary of Protect Wildlife staff by type (administrative or technical) and location is presented on Table 3.

TABLE 3: SUMMARY OF TECHNICAL AND SUPPORT STAFF BY LOCATION AS OF MARCH 31, 2019

Categories	Total	Staff Type		Location				
		Technical	Support	Manila	Palawan	Zamboanga	GenSan	Palayan
No. of staff on board	95	69	26	51	20	9	14	1
No. of staff resigned within the quarter	-2	-1	-1	-1	-1			
No. of staff for USAID approval	13	9	4	4	2	2		5
No. of staff for recruitment	11	9	2	10	0		1	0
Total Long-Term Technical Assistance Staff	117*	86	31	64	21	11	15	6

* 75 long-term hires and 42 short-term hires

4. Set up the policy on staff development to enable Protect Wildlife staff to attend work-related trainings and courses. Two personnel already availed the staff development program.
5. Set up the fourth field site office in Palayan City, Nueva Ecija. The staff will start occupying the field office in early May 2019.
6. Continued to engage the following home office staff to provide continuing support on financial, procurement, human resources, travel and technical reporting systems.
 - [REDACTED] (IT Specialist) and [REDACTED] (Project Manager) – provided remote support on IT/server, IBM Notes and TAMIS crashes repairs and maintenance.
 - [REDACTED] – continuous refinement and upgrading of various TAMIS modules.
 - [REDACTED] – provided continuous remote support on the use of the field accounting system.
7. In March, enjoined all staff to participate in the annual ethics survey, conducted online by DAI globally. The survey is intended to orient, re-orient or refresh staff knowledge on DAI's Ethics and Business Conduct Policy.
8. In support of various activities, supported the major procurements during the quarter in review:

TABLE 4: BREAKDOWN OF MAJOR PROCUREMENTS DURING THE QUARTER

DESCRIPTION	TOTAL (US\$)	DATE OF PURCHASE ORDER
Rangers and communities perception studies in SBPS	[REDACTED]	30-Mar-19
Advanced Training on Enforcement and Investigation for Violations of Laws and Regulations on wildlife, fisheries and protected areas	[REDACTED]	28-Mar-19
HP Toners for Palayan City Office	[REDACTED]	28-Mar-19
Quarterly Meeting	[REDACTED]	27-Mar-19
Community-based environmental law enforcement training for barangay officials of Mount Mantalingahan Protected Landscape	[REDACTED]	22-Mar-19
Training on Wildlife Conservation and Management: Species Identification, Handling and Management Techniques: Insects and Spiders	[REDACTED]	15-Mar-19
Training on Wildlife Conservation and Management: Species Identification, Handling and Management Techniques: Insects and Spiders	[REDACTED]	15-Mar-19
PES Module 1: Orientation on Payment for Establishing Ecosystem Services in Protected Areas and Forest Lands for Users of Water in Region 12, Second Batch	[REDACTED]	11-Mar-19
Aurora Violation Assessment and Stakeholders Analysis	[REDACTED]	7-Mar-19
Meals and snacks for participants of DENR-BMB's World Wildlife Day celebration	[REDACTED]	4-Mar-19
PA Module 3b: Training of Communities on Integrated Conservation and Development in Mount Matutum Protected Landscape Batch 3	[REDACTED]	22-Feb-19
Renewal of group life and accident insurance coverage of DAI's Protect Wildlife Staff	[REDACTED]	12-Feb-19
Internet Bandwidth Service Provider - Ortigas Office	[REDACTED]	30-Jan-19
PA Module 3b: Training of Communities on Integrated Conservation and Development in Mount Matutum Protected Landscape	[REDACTED]	25-Jan-19
Series of Orientation-Seminars on Wildlife Trafficking Laws, Rules and Regulations for Palawan Seaports and Airports	[REDACTED]	19-Jan-19

DESCRIPTION	TOTAL (US\$)	DATE OF PURCHASE ORDER
DENR-Protect Wildlife Project Steering Committee Meeting and Action Planning for the Year 3 Work Plan	██████	19-Jan-19
DENR-Protect Wildlife Project Steering Committee Meeting and Action Planning for the Year 3 Work Plan	██████	18-Jan-19
HMO Insurance Coverage Renewal	██████	15-Jan-19
Sarangani Bay TWG Workshop on Final AMS Reporting, Zoning and Determination of Allowed and Disallowed Uses Part 2	██████	10-Jan-19

- Carried out periodic assessment of security-related incidents and crimes in Protect Wildlife sites at the regional, provincial and site levels. The situation in the Philippines over the past quarter has remained consistent in Region 9 (Zamboanga City and nearby areas), Bangsamoro Autonomous Region in Muslim Mindanao (Tawi-Tawi), and Region 12 (South Cotabato, Sarangani and General Santos City). Most reported incidents were either related to upcoming national and local elections in May 2019, ISSI-related in Maguindanao and Lanao provinces, and ASG in Basilan and Tawi-Tawi. There were no reported incidents that indicate deliberate targeting of Protect Wildlife staff and operations. But, staff continued to receive instruction and guidance especially when travelling to Tawi-Tawi, Isabela City, Zamboanga City, and some areas in Sarangani.

PLANS FOR NEXT QUARTER

- Continue to recruit staff for Region 3 and needed short-term consultants.
- Provide a comprehensive orientation to new staff on policies and procedures, including training on various TAMIS modules, i.e. travel, procurement and human resources.
- Conduct the annual Anti-Harassment and Anti-Human Trafficking training.
- Work with home office project management team in addressing USAID financial review recommendations, if any, especially on strengthening policies and procedures.
- In coordination with the Security Manager, plan the conduct of security and emergency training for staff.
 - First Aid/Emergency Trauma Bag, both new and refresher training. Participants from each office and schedule of training will be determined in coordination with the Field Site Manager. Each office will have its own Emergency Trauma Bag, which should be visible and accessible by all staff.
 - Re-train staff on emergency evacuation in case of fire, earthquake and other disasters.
- Conduct quarterly meeting for all members of operations team from all locations. This meeting aims to ensure everyone is on the same page in terms of policy implementation on procurement, administration and financial management.
- Work with DAI Bethesda IT Specialist for the staff email system migration from IBM Notes to Microsoft Outlook. This is due to unresolved IBM Domino server hanging/crashing issue.
- Conduct physical count of assets in all sites and reconcile these with financial records.

ANNEX A

PROTECT WILDLIFE STEERING COMMITTEE RESOLUTIONS

Protect Wildlife Project Steering Committee (PSC)
USAID Protect Wildlife Project

RESOLUTION No. 2019-01

“Creating the *ad hoc* Technical Working Group (TWG) of the PSC on the Integration of natural resources management (NRM) plans with the Comprehensive Land Use Plan (CLUP)”

WHEREAS; the Protect Wildlife Project is engaged in planning the land uses of forestlands, protected areas, ancestral domains, coastal and marine areas, and hazard zones in its project sites for integrating these land uses into the local government CLUPs in line with the Housing and Land Use Regulatory Board (HLURB) guidelines;

WHEREAS; to demonstrate to HLURB and the LGUs in Protect Wildlife sites the processes for integrating the above land uses into CLUPs is vital in enhancing the current HLURB and DENR guidelines on land use planning;

WHEREAS; the DENR can issue a technical bulletin on the harmonization and integration of the above land uses into the LGU CLUPs that will help all conservation planners and concerned agencies.

NOW THEREFORE, for and in consideration of the above premises, the PSC resolved to create an *ad hoc* TWG for enhancing current DENR guidelines for planning the land and resource uses in forestlands, protected areas, watersheds, freshwater wetlands, coastal and marine areas, local conservation areas, tenured and ancestral domains, and foreshore areas into CLUPs. The *ad hoc* TWG shall undertake the following:

1. Guide the Protect Wildlife in preparing the integration and harmonization protocol, guidelines, training designs, and manuals, and piloting these in priority sites.
2. Protect Wildlife will organize a workshop to present and discuss processes, protocols, and techniques for integrating and harmonizing the land uses in forest lands, protected areas, and ancestral domains, tenured areas, reservations, ancestral domains, and marine and coastal areas into the CLUPs;
3. Hold consultative meetings with HLURB and facilitate adoption of recommended processes for integrating land uses in forestlands, protected areas, ancestral domains,

reservations, coastal and marine areas, and tenured areas into the HLURB CLUP guidelines;

4. Undertake consultative meetings with the key officials of the DENR and other DENR projects; and
5. Prepare the appropriate policies that the DENR will issue to guide all DENR bureaus, regional offices, attached agencies and partner agencies.

The chairperson of the *ad hoc* TWG is For. RAY THOMAS F. KABIGTING, Office of the Assistant Secretary for Staff Bureaus, DENR. The Protect Wildlife team will be headed by For. WILBUR G. DEE.

The following DENR offices shall submit names of two permanent representatives each to the chairperson of the *ad hoc* TWG before February 8, 2019.

1. Planning and Policy Service
2. Forest Management Bureau
3. Biodiversity Management Bureau
4. Land Management Bureau
5. Foreign Assisted and Special Projects Service

All operating and travel expenses of the members of the *ad hoc* TWG shall be charged to the USAID Protect Wildlife Project.

Issued on February 1, 2019 during the PSC meeting at Quest Hotel, Clark Ecozone, Pampanga.

PAQUITO T. MORENO, JR.
Regional Executive Director
DENR-Region III

HENRY A. ADORNADO
Regional Executive Director
DENR-MIMAROPA

SABDULLAH C. ABUBAKAR
Regional Executive Director
DENR-Region IX

NILO B. TAMORIA
Regional Executive Director
DENR-Region XII

NONITO M. TAMAYO
Director
Forest Management Bureau

SOFIO B. QUINTANA
Director
Ecosystems Research and Development
Bureau

MA. LOURDES G. FERRER
Director

NELSON P. DEVANADERA
Executive Director

DENR-Policy and Planning Service

Palawan Council for Sustainable
Development Staff

RANDY VINLUAN

Contracting Officer's Representative
USAID Philippines

DR. ERNESTO S. GUIANG

Chief of Party
USAID Protect Wildlife Project

EDWARD G. LORENZO

Wildlife Crime Prevention Advisor
USAID Protect Wildlife Project

WILBUR G. DEE

Biodiversity Conservation Advisor
USAID Protect Wildlife Project

LOURDES C. WAGAN

OIC-Director
DENR-Foreign Assisted Special Project
Vice Chairperson

CRISANTA MARLENE P. RODRIGUEZ

Director
Biodiversity Management Bureau
Co-Chairperson

RICARDO L. CALDERON

Assistant Secretary for Staff Bureaus, DENR
Chairperson, Protect Wildlife Project PSC

**Protect Wildlife Project Steering Committee (PSC)
USAID Protect Wildlife Project**

RESOLUTION No. 2019-02

“Creating the PSC *ad hoc* Technical Working Group (TWG) on the Preparation of an Integrated Enforcement Manual of Operations for Environmental Crimes”

WHEREAS; the Department of Environment and Natural Resources (DENR) has different operational manuals on environmental law enforcement and protocols ranging from forestry, protected areas and wildlife developed by the DENR’s different Bureaus and Divisions.

WHEREAS, the Secretary of the DENR has issued Department Administrative Order (DAO) No. 18, Series of 2018, and DAO No. 1, Series of 2019, placing the PENROs and CENROs at the forefront of environmental law enforcement, from forestry, protected areas, wildlife, and caves under the principle of a unified command structure.

WHEREAS, historically, most PENROs and CENROs were focusing on forestry law enforcement, with the new operational setup, staff from the Enforcement Section/Unit will be at the forefront of enforcing all environmental laws in their operational areas.

WHEREAS, the Expanded NIPAS Act establishes the Protected Area Management Office (PAMO) to manage, protect, and administer the protected area to be headed by the Protected Area Superintendent.

WHEREAS, in order to capacitate, streamline, and rationalize enforcement at the site-level, there is a need to integrate the different environmental law enforcement manuals in order to standardize processes and protocols for PENRO, CENRO, and PAMO enforcers.

WHEREAS, the Protect Wildlife Project is supporting the DENR enhance its capacities on protected area, forestry and wildlife law enforcement through its various programs and the experiences and lessons in environmental law enforcement.

NOW THEREFORE, for and in consideration of the above premises, the PSC resolved to create an *ad hoc* TWG on the preparation of an integrated enforcement manual for natural resources management. The *ad hoc* TWG shall undertake the following:

6. Guide the Protect Wildlife Project in drafting an integrated enforcement manual for natural resources protection and conservation, with the appropriate administrative adjudication mechanisms as needed.
7. Conduct consultative meetings and workshops with the Protect Wildlife Project with selected field units of DENR, DA-BFAR, DA-BPI, DA-BAI, PNP, NBI, BOC, and other relevant national, regional and local agencies and units, including appropriate stakeholders.
8. Pilot test the manual in its identified Project sites; and,

9. Finalize the Manual and prepare the necessary policies that the DENR will issue to guide all DENR bureaus, regional offices, attached agencies and partner agencies in using the said manual.

It is further resolved that the *ad hoc* TWG composed of the following DENR offices shall submit names of two permanent representatives each to Protect Wildlife before February 8, 2019.

6. Office of the Undersecretary for Field Operations
7. Planning and Policy Service
8. Legal Service
9. Forest Management Bureau
10. Biodiversity Management Bureau-Wildlife Resources Division
11. Biodiversity Management Bureau-National Parks Division
12. Enforcement Division Chiefs from Regions 3, 4B, 9, and 12
13. Palawan Council for Sustainable Development Staff ECAN Regulation and Enforcement Division

All operating and travel expenses of the members of the *ad hoc* TWG shall be charged to the USAID Protect Wildlife Project.

It is further resolved that the chairperson of the *ad hoc* TWG is Mr. RAY THOMAS F. KABIGTING of the Office of the Assistant Secretary for Staff Bureaus, with EDWARD LORENZO as head of the drafting team.

Issued on February 1, 2019 during the PSC meeting at Quest Hotel, Clark Ecozone, Pampanga.

PAQUITO T. MORENO, JR.
Regional Executive Director
DENR-Region III

HENRY A. ADORNADO
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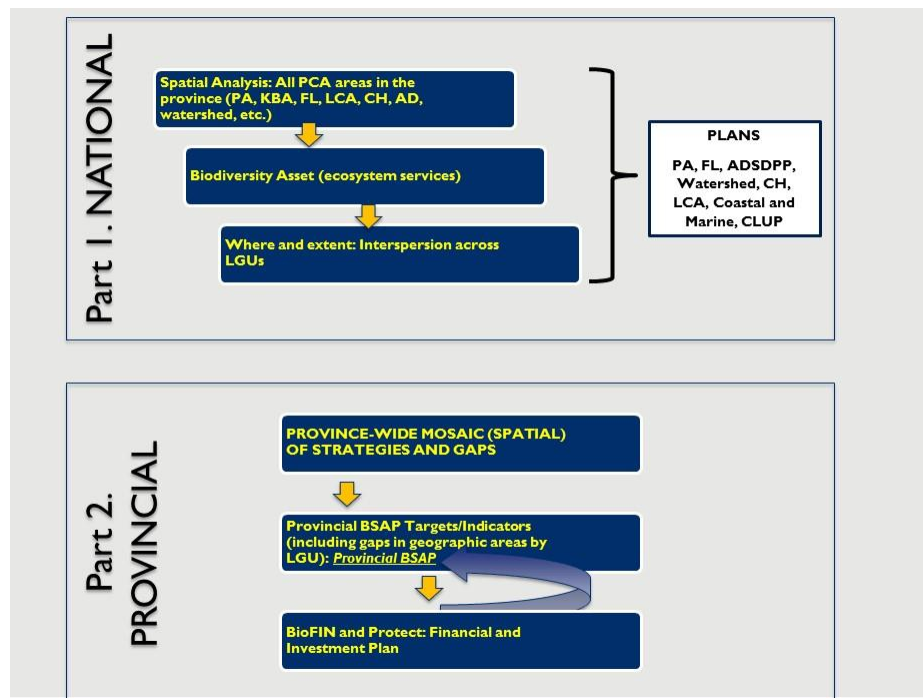
LOURDES C. WAGAN
OIC-Director
DENR-Foreign Assisted Special Project
Vice Chairperson

CRISANTA MARLENE P. RODRIGUEZ
Director
Biodiversity Management Bureau
Co-Chairperson

RICARDO L. CALDERON
Assistant Secretary for Staff Bureaus, DENR
Chairperson, Protect Wildlife Project PSC

ANNEX B

PBSAP LOCALIZATION FRAMEWORK



Modules

Module 1. Developing the framework and preparation of activity plan per target province based on agreed schedule (March-April 2019).

Based on the agreed framework, the modules are scheduled per province to ensure delivery of the 4 localized BSAP before the end of 2019.

Module 2. Preparation of decision map resulting from **joint spatial analysis by BMB and Protect Wildlife** for use during the provincial consultative workshop

A technical workshop involving PW and BMB GIS personnel to develop the decision maps resulting from spatial analyses exercises. The decision map shows the mosaic of biodiversity conservation areas and the biodiversity assets that are common amongst the sites and are unique in each.

Module 3. Collation of plans and inventory of strategies (**by PBSAP Team of BMB and Protect Wildlife**) to prepare the overlay map and produce the mosaic of strategies in biodiversity areas (habitats)

Overlaying of strategies contained in FLUP, PA, CLUP, etc in the biodiversity decision map to determine gaps (funding and activities/programs)

Note: PW Managers to collate strategies for Aurora Province, Zamboanga City and South Cotabato. For Zamboanga Sibugay, BMB will collate the strategies.

Module 4. Conduct of the provincial consultative workshop

Sub-module 4a. FGD by DENR Region involving PAMBs, IPs, CSOs, LGUs, and other agencies. Includes orientation (BMB Planning and Protect Wildlife) of DENR team (CDD) in-charge of conducting FGD. (**Note: PW Managers to prepare the activity designs with CDD and Technical Division of province**)

Pre-work. Orientation of DENR Regional staff and scheduling of provincial consultative workshops. All regions to attend the Manila-based workshop

Sub-module 4b. This is a 3-day workshop that solicits specific inputs from the provincial participants based on a standard form that BMB provides. Using the decision map as working material, specific strategies and indicators are generated.

Module 5. Preparing the Provincial BSAP/printing the plan

Polishing the inputs generated from Module 5, the national TWG guides the writer of the provincial PBSAP on the final contents of the plan for printing.

Module 6. Preparation of the financial and investment plan (BioFIN)

BioFIN and Protect Wildlife hold a series of workshops to prepare the financial and investment plan for the purpose of addressing funding gaps. **BIOFIN does initial consultations**

Considerations in the preparation of the Provincial BSAP

Each province has peculiarities based on availability of data and plans.

- Number and collective size of protection and conservation areas differ
- Number of relevant projects and their collective scales and timelines vary
- Degree of cooperation of institutional stakeholders varies

ANNEX C

PROTECTED AREA MANAGEMENT ACADEMY CONCEPT NOTE

I. Introduction

The enactment of Enhanced National Integrated Protected Areas System (ENIPAS) casts a challenge to the DENR in the improvement of the quality of protected area (PA) management. With the progress towards better management and conservation of biodiversity by way of strengthened network of PAs going beyond mere legal measure, capacity building is the more critical action to take henceforth. The deployment of PA managers and staff with technical and administrative skills is crucial in sustaining what started in 1992, the enactment of RA 7586, or National Integrated Protected Areas System (NIPAS) Act. However, majority of the 244 (107 legislated, 13 proclaimed and 124 initial components; 4.68 million ha terrestrial and 3.08 million ha marine) PAs comprising the system are wanting of technically and administratively strong personnel compliment. In the absence of a continuing education program for PA managers and technical personnel of DENR there is danger of not attaining the vision and goals of the PA masterplan (2018-43) and the PA indicators of the Philippine Biodiversity Strategy Action Plan (PBSAP). The practice of intermittent, funding-dictated, unsystematic and few-days-long technical trainings is bereft of the sustainable skills development program required by the nifty vision and goals for NIPAS administration.

After the enactment of RA 7586, the DENR initiated massive training of DENR Regional executives (RTD, Asst. RD, PENRO and CENRO), PASUs and technical staff and representatives of LGUs and CSOs. The course design varied according to the levels involved: managerial, technical and advocacy. In all, more than 1,000 DENR personnel in all regions attended the training programs held exclusively at the Institute for Forest Conservation, UP College of Forestry, UPLB. A reference book based on collated training materials was the main knowledge product of the program. The program funds ended, however, and sustaining the gain stopped. The DENR, on the other hand, failed to see the strategic value of continuing what it started.

The expanding number and collective size of conservation areas (including local conservation areas and critical habitats, key biodiversity areas) demand deployment of capacitated personnel and capacitated local partners. Numbers and the collective size do not suffice to claim that biodiversity management has improved due to this development. Failure to complement the expanding size of the conservation areas with quality governance and management (and sustaining it) is redolent of the errors committed during the pre-NIPAS period, or the national park system, when majority of national parks and equivalent categories having barely enough resources and capacitated personnel to protect and manage them.

II. Rationale

Why is there a need to establish a PA academy? What are the compelling reasons that brought to surface this subject? These are the fundamental questions needing answers. The introduction section provides some pragmatic elements to the answers to the questions. The points below enhance the above reasons.

1. The proposal to create a PA Academy is seen a panacea to the lingering problem of lacking well-trained cadre of manager and technical staff charged to manage PA. The intermittent trainings provided to some PA staff do not suffice to capacitate them in line with the complex nature of management demanded by the law and support policies. PA management is about people management, resource management, habitat management (terrestrial, marine, wetlands and coastal) and local economy improvement. Handled in integrated way, the complexity ratchets up. Unfortunately, majority of protected areas in the country do not have staffs who can handle this extreme challenge. In some cases, due to shortage of expertise that cuts across habitats, protected seascapes have assigned PASUs with forestry background.
2. The shared spirit of NIPAS and ENIPAS is optimizing benefit flows from each PA and the system of PAs for the local communities, the local economy and the nation through time. The quality and quantity of ecosystem services that flow from the PAs determine the scale of these benefits. The quality of governance and management, however, defines the degree by which ecosystem services materialize to sustain and improve benefit flows. This is a subject quite alien to many PAs. Knowledge about it is shallow and superficial, thus the plans mention it only in very general ways.

With almost 7.6 million hectares, the PA system, if governed properly, is part solution to the growing threat of countryside poverty, marginal local economy, and continuous anthropogenic incursion in habitats and resource-rich areas. If the PA system is to contribute in the national accounts under the Agriculture, Fishery and Forestry account, corrective measures are needed beginning with the creation of the PA Academy

3. Real development in majority of 244 PAs remain slow and nebulous. Real economic indicators need firmed up and measured to determine if development is rising or merely fictive and theoretical. This is an observed fact in the case of tenured communities issued PCBRMA. This sad situation is a function of mediocre management due to poorly trained PA staff and managers. The acutely lacking systematic technical training program with sustained post-training capacity development is evident 25 years the NIPAS Law by which this basic need on capacity building was recognized. This situation worsened due to a literally absent career program within the DENR for those assigned in the PA sector, rendering the assigning of PA personnel whimsical, in some cases.
4. The PBSAP and the PA Masterplan are the other reasons that justify the establishment of the PA academy. The PA Masterplan is specific in this recommendation given the targets

set to raise funds and the task given to each PA to raise income to top-off the scanty fund allocation from the national government.

5. Past assessments made on the sector with assistance from GIZ (PAME), UNDP (NewCAPP), UPLB Foundation. Inc. and BMB share similar conclusion and recommendation pointing to the need to sustain capability program to establish cadres of protected area managers and staff with clear career path.
6. Support to biodiversity management in the country is at an all-time high, locally and internationally. Hence, the concept is ripe for action. One institution with interest to extend assistance is the ASEAN Center for Biodiversity (ACB). The collaboration by the ACB in the project is strategic in that it can bring ASEAN trainees to the academy and help in several aspects of establishing and managing the academy.

How is DENR committing itself in this endeavor is crucial in establishing and sustaining the operation of the academy. Critical decision areas include the following:

1. Physical facility
2. Budget for the operation
3. Career path for alumni

III. Goal

To establish a PA academy under the direct administration of DENR by the 2nd quarter of 2020.

IV. Objectives

1. To establish the academy by May 2020
2. To finish the facility by March 2020
3. To complete the curricula and training materials by November 2019
4. To establish the system of operations by November 2019
5. *To prepare the principal lecturers and support staff by the end of December 2019**
6. To start operation by April 2020.

**This includes selection of trainors/lecturers within DENR who will undergo trainings and simulation exercises on the use of instructional materials, handling of lecture, and mentoring strategy, among other things. The capability training includes field exposure and dialogue with PA stakeholders both at the PAMB and site levels. Hands-on handling of equipment and tools commonly used in PA management and planning is part of making the trainors/lecturers grounded and reduce being theoretical in style.*

V. Features of the PA Academy

At the minimum, the academy functions to handle the following:

1. Develop curricula for PASU, PAMB and PA technical staff. Each curriculum reflects the main functions of each unit/office, hence avoiding a one-fits-all curriculum that is inappropriate given the varying educational levels and experiences of target trainees. Mandatory graduation for PASU and technical positions.
2. Handle special orientation class for senior and junior executives of DENR, attached agencies and NGAs administering PAs,
3. Administer a continuing education program every three years for the alumni of the academy.
4. Undertake a systematic tracking of graduates for monitoring application of skills.
5. Administer the monitoring of post-graduation re-entry plans of main trainees.
6. Manage and promote an international training program for foreigners.
7. Include locals (public) upon payment of fees

The academy keeps records of the graduates to help in the promotions of alumni connected with the DENR. The system ensures that only alumni are certifiable under this consideration.

Once the academy is in full operation using the final modules and materials, the DENR will coordinate with the Professional Regulations Commission (PRC) to explore the possibility of crediting the training in its Continuing Education Program for Foresters and other allied professions. Where possible, arranging the earning of academic units in favor of DENR trainees who are in appropriate graduate programs (in selected higher education institutions) is a priority. The benefits to the trainees through the PRC's Continuing Education Program and

VI. Strategies

The academy is best located at the DENR compound or nearby. The BMB has the space and the building. Two locations are possible within the BMB complex. These are the BMB Training Center and the Bulwagang Ninoy Aquino. With minor physical improvement to do any of the 2 buildings will suffice. This arrangement makes its institutional sustainability guaranteed and monitoring of the graduates/alumni efficient. The quality of lecturers and materials that aid the lectures is an advantage, its maintenance and upgrading being a required task under an institutionalized learning and skills development program. As trainees share experiences during classes, new cases and situational profiles get developed prompting lecturers and trainers to upgrade certain modules of the curriculum. Essentially, the academy is a dynamic learning institution using dynamic modules that adjust to prevailing issues, concerns and opportunities.

The advantage of having it handled by the DENR is having a firmer control over the capability program where it can use every asset of the DENR (personnel, policies and pre-policy cases, programs, tools, etc.) to continue upgrading the curricula and instructional tools and materials. With foreign-assisted projects offering another source of inputs to the program in many areas under a soft technical support arrangement, the scale of quality training is certain to ratchet-up deserving international qualification.

It also has the advantage of engaging the free services of fresh DENR personnel that qualify for designation as official lecturers; thus, increasing the number of accredited internal lecturers and trainers.

One option under discussion is to include the academy under the Environment and Natural Resources Academy (ENR) of DENR located in Carranglan, Nueva Ecija. There is a dissenting opinion on this because of the strong possibility that the PA modules will end up just part of the ENR modules. With the likely limited number of days allotted on PA training and given the distance of the academy from Manila, the intention of the PA academy as per the initial modules presented below is certain of negative results. Given the collective size of the 244 PAs and other allied conservation sites that account to more than 7 million hectares it is wise to separate the proposed PA academy from the ENR academy.

The major strategies as per the above premises are as follows:

1. Identify the physical location of the academy
2. Design the architectural features of the academy
3. Determine the needs to rehabilitate or improve the facility following the design
4. While the physical designing and preparations are ongoing, the preparation of the following commences:
 - 4.1 Administrative and management protocol
 - 4.2 Preparation of curricula
 - 4.3 Preparation of instructional materials and tools based on the syllabus for each curriculum.
 - 4.4 Collation of cases relevant to PA management
 - 4.5 Vetting of internal trainers and lecturers (including field personnel)
 - 4.6 *Selection of trainors/lecturers***
 - 4.7 Basic orientation for the pool of trainors/lecturers including field exposure in selected PAs.
 - 4.8 Simulation exercises: modules and use of instructional materials and tools
5. Final simulation exercises in the improved and upgraded facility.
6. Preparing the schedules for selected modules for 2020
7. Launching the program and inauguration of the facility

***Creation of Internal Trainors/Lecturers*

Sustaining the quality of training is a function of the quality of internal trainors and lecturers. The availability of the internal trainors/lecturers at any given time of training schedule is crucial in quality maintenance.

The selection of the members of the internal trainors/lecturers of the academy follows a set of criteria requiring strict observation by management. Possessing minimum qualifications, they will attend trainings on the aspects of communication, lecture delivery, confidence building and use of lecture materials and lecture tools.

VII. Modules

A. Module for DENR Executives (USEC and ASEC)

A 1-day lecture (7 hours) series exclusive for USECs and ASECs. The lecture series is purely for briefing purposes. This module is short yet providing the fundamentals of PA management to aid in rendering executive decisions.

B. Module for Directors and Asst. Directors

A 2-day executive class involving case studies for frontline executives.

C. Module for PENRO and CENRO

A 5-day lecture series covering all the thematic areas of PA management in concise forms. Designed for field executives, the module is a relaxed situation. Highly informative by way of brief presentation of major subjects that suffice to acquaint the executives. The module provides ample time for discussion of cases.

The module is less intense in terms of exposure of trainees to all technical bulletins.

D. Module for PAMO, PAMO staff and PAMB members (technical)

A 25-day lecture series (in 2 separate parts) with very intense exposure on all technical bulletins and simulations such as management plan preparation, preparing data projections and habitat evaluation and improvement, among other subject matters. Final output requirement to graduate is a concise version of a PA management complete with zoning, logical framework, projections and financial plan.

Regarding job contractors who are working with the PAMO, they are the subject of the re-entry plans of the technical staff to ensure the transfer of knowledge and attain a 100% capacity and knowledge amongst PAMO staff. The re-entry plan of each graduate trainee is individual-specific. The mentoring design begins with the graduates conducting an orientation similar to the module used in the PA academy giving them the experience of transferring the things learned at the PA academy. After graduation of job contractors, individual coaching assignment follows. This approach gives assurance that the job contractors are privy to all aspects of PA management and planning.

E. Module for staffs of legislators and LGUs and other PAMB members (non-technical)

The module is special and limited to 4 days. The objective is informing the participants on ENIPAS and the IRR, and the functions of their offices to make the implementation of

the law and its IRR effective. Included in the module is the way to sustain the participation and support of their offices. The integration and harmonization of PA management plan with the Comprehensive Land Use Plan of the LGU is included based on the HLURB guideline. Hours of instruction should be creditable to mandatory continuing education units for LGUs.

F. Module for community stakeholders

This is a 3-day field activity where community members attend the Conservation Field School (CFS) located in a designated area in the protected area. The CFS is an informal learning program and facility where trained community members can regularly attend post-training meetings to discuss issues and concerns relevant to them and biodiversity.

VIII. Module Design

The major topics common across modules are the following:

Lecture Topics	Exempted Module
ENIPAS and NIPAS Act	
IRR	
Integrated Landscape/Seascape Planning and PA planning	
Governance and management	Module for DENR executives and Module for staff of legislators and LGUS
Zoning and projecting land and resource uses and benefits	Module for DENR executives and Module for staff of legislators and LGUs
Investment planning for MUZ; development and conservation	Module for DENR executives and Module for staff of legislators and LGUs
Enforcement and dispute resolution	Module for DENR executives and Module for staff of legislators and LGUs
PES and IPAF	
Agroforestry, agrobiodiversity, urban, inland wetland, marine and costal management	Module for DENR executives and Module for staff of legislators and LGUs
Tenure and tenure management	Module for DENR executives and Module for staff of legislators and LGUs
Basic EIA	Module for DENR executives and Module for staff of legislators and LGUs
Wildlife and habitat management; biodiversity management	Module for DENR executives and Module for staff of legislators and LGUs
Others (Ecotourism and Gender)	Module for DENR executives and Module for staff of legislators and LGUs

Note: The PA Academy can collaborate with HEIs offering special training courses in the marine and coastal areas such as the _____ of the UP Marine Science Institute (UPMSI)

Development of curricula and instructional materials

Protect will provide support in developing the curricula for the modules. Each curriculum will have its own syllabus and instructional materials required. Thus, the curricula writers include in their outputs the syllabi and the topics of the instructional materials.

The Protect will engage the services of technical consultants who will prepare the above. They will pre-test each output as a contract requirement.

IX. Activity Schedule

Activity	2019	2020	Outputs
1. Establish the academy		May	Inaugurated facility and launched program
2. Finish the training facility		March	Physically finished in time for the inauguration
3. Complete the curricula, syllabi and instructional materials	Dec.		Completed materials
4. Establish the systems and protocol	Nov.		All system go
5. Select lecturers and trainors	Dec.		Final list of accredited lecturers/trainors
6. Start operations		April	Official start of first batch***

***By this time the schedules of the modules are ready complete with the trainees. Prior to the launching and inauguration, the academy begins identifying the trainees from various institutions. However, since getting trainees from DENR is simpler in management during the first year of operation, this is where concentration will happen while opening the other modules but for limited slots only.