

- I. **Project Title:** Facilitating Community Stewardship to Protect and Advocate Coral Reef Conservation in Laolao Bay and Garapan Coastal Areas
- II. **Award Amount:** \$130,000
- III. **Recipient:** Mariana Islands Nature Alliance (MINA)
- IV. **Award Period:** October 1, 2011 – September 30, 2013
- V. **Reporting Period:** October 1, 2011 – March 30, 2013

VI. Project Summary

To understand the users of Laolao Bay, the Mariana Islands Nature Alliance (MINA) will focus its efforts on six (6) different types of Laolao Bay users: 1. Fishermen; 2. Beachgoers/Picnickers; 3. Divers; 4. Tourist; 5. Visitors; and 6. Local residents. MINA has developed tools to best implement and manage its Tasi Watch program and how each program can best serve and train the communities and users of Laolao Bay to protect Laolao Bay's natural resources and its habitats. Over the course of the project, MINA will secure partnerships with local regulating agencies such as the Division of Environmental Quality (DEQ), Coastal Resources Management Office (CRM), Division of Fish and Wildlife (DFW), and various organizations and other government agencies by forming an alliance to help community members alleviate some of the threats to coral reef and how to further increase the communities' level of awareness and understanding that their involvement to protect Laolao Bay's rich biodiversity is critical in perpetuating Laolao Bay's ability to support the needs of the communities and its users.

VII. Project Progress:

Throughout the first year of Tasi Watch, MINA focused on recruiting and internal trainings for regular volunteers and Community Rangers, developing training and outreach materials, attend various workshops and external trainings from local government agencies, and attend various outreach meetings with local partners to determine what outreach outlets and events each partner can participate in to strengthen support for Tasi Watch and other projects from the local agencies.

For this reporting period (October 2012 to March 30, 2013) and the beginning of the project's second year, MINA focused on updating their stats and reports as to what has been done so far. MINA worked on maintaining survey data, volunteer hours, monitoring, reporting, promoting Tasi Watch through social marketing outlets and collaborating with other partners such as DEQ, CRM, and Seaweb to promote the Our Laolao anti-litter campaign and Tasi Watch.

Since the project began in October 2011, MINA has been slowly progressing with the program, planning incessantly to build a stronger base for the implementation phase. Below is an outline of what programs were developed and activities planned in helping in the implementation process.

In December 2011, MINA hired Leilani Sablan to be the project manager for the Tasi Watch project. Unfortunately, after only two (2) months with MINA, she resigned due to personal matters. In January 2012, MINA hired Ms. Shiralynn (Shin) Perez to be the outreach coordinator. She worked with the project manager in recruiting volunteers and organizing activities for volunteers. After Ms. Sablan's resignation, Shin Perez took the project manager's position and MINA hired Herbert Sablan to replace Shin as the new outreach coordinator.

As explained in the project proposal, Tasi Watch Outreach Program was developed to provide the Laolao Bay community the opportunity to manage its coastal areas by reducing threats to coral reef. These threats include solid waste, soil erosion, failing drainage systems, and other non-point sources of pollution – all of which were identified in the 2009 Laolao Bay's Conservation Action Plan (CAP).

January 2012:

- MINA, along with members of the Young Environmental Ambassadors Club (YEA) of Saipan Southern High School had an invasive removal project around the MINA hut site also known as Zone 2.
- Project Manager and Outreach Coordinator began developing the volunteer program – writing the volunteer manuals, training and curriculum manuals necessary to facilitate an efficient volunteer program. Materials were developed to recruit volunteers in to the program. Initial contacts with the Public School System and the Northern Marianas College began to schedule school presentations to encourage youths to volunteer in beach cleanups and tree planting events around Laolao Bay. In addition to the recruitment, interested organizations were located and identified as part of the recruitment efforts.

February 2012

- A comprehensive brochures, posters, and power points were developed for the Tasi Watch Outreach Program. These materials and tools highlighted the Tasi Watch goals and objectives and important information about protecting the coral reef and what knowing important numbers to report violations or illegal activities.
- Designs for the Tasi Watch t-shirts were developed as volunteer incentives and for the Community Rangers.
- Signages for the project site were also developed during the latter part of February 2012. These signs will be used to not only identify the Tasi Watch site but will also serve as an educational tool for visitors and users of Laolao Bay.

- Development for surveys is still being reviewed and revised. As stated in the proposal, a baseline survey will be conducted before the actual implementation of the program, every three (3) months during the implementation of the program to measure the progress of the project and make necessary changes for improvements.
- February 27 – MINA staff participated, along with other collaborating partners, in the improvement and update planning session for the Laolao Bay Conservation Action Plan for 2012.

March 2012

- Partnerships were formed between MINA, Division of Environmental Quality (DEQ), Coastal Resources Management (CRM), Division of Fish & Wildlife (DFW), and Seaweb to create a sister program with the Laolao Bay Anti-Litter Campaign called “Our Laolao”. Various teams were formed to implement the campaign and planned various activities to bring in community members to participate in the Tasi Watch program and the Our Laolao Campaign.
- On March 22, 2012, MINA, together with the government agencies, Seaweb, and various community champions successfully launched the Tasi Watch Project and the Our Laolao, Litter Free on Land and Sea Campaign. Various members from the media, members from the 17th Legislature, Lt. Governor Eloy Inos, and other organizations, school clubs and community members were also present at the launch.
- During the month of March 2012, miscellaneous forms were developed to keep good record of each volunteer. From tracking volunteer hours to signing media release forms, parental consent for media release, and volunteer waiver forms were all created to protect MINA, its funders, sponsors, and partners. Below is a list of activities for the month of March 2012:
 - ✓ Outreach action plan developed to engage volunteers and Community Rangers to raise awareness on applicable laws that protect marine resources;
 - ✓ Continue recruitment for volunteers and Community Rangers through numerous presentations in schools, government agencies, businesses and public events;
 - ✓ Numerous beach cleanup activities were scheduled to collect litter data for the Our Laolao campaign;
 - ✓ Educational materials were developed and used at the Tasi Watch hut;
- In April 2012, a Tasi Watch Training Curriculum was developed as a training tool. Volunteers and Community Rangers will be trained and evaluated on a monthly basis. At the end of each training session, participants evaluate the effectiveness of the training as well as the facilitator. Aside from finalizing

the Tasi Watch Volunteer Curriculum, volunteer forms, training manuals, and other pertinent forms are developed and used at all scheduled activities.

- For the months of April and May 2012, Tasi Watch Community Rangers consistently monitored Laolao Beach areas. Reports are generated weekly to assess the need to continue monitoring behaviors and possible violations or incidents. Proper record of all the activities, demographics of users, and most importantly, reports on the number of violations (if any) are maintained for future reference and to measure the effectiveness of our outreach and monitoring activities by volunteers and Community Rangers.
- In June 2012, numerous training workshops were scheduled for the volunteers and the Community Rangers. Below is a list of trainings received by our volunteers and Community Rangers:
 - Volunteer Orientation & Tasi Watch Program by Shin Perez, MINA Project Manager (COMPLETED);
 - Laolao Bay CAP by Kaitly Mattos, DEQ Watershed Coordinator (COMPLETED);
 - “It’s the Law” by Attorneys Kate Fuller and Teresita Sablan (CNMI Government Legal Counsel) (COMPLETED); and
 - Enforcements for Marine Protected Areas by Tony Mareham, DFW Conservation Officer (COMPLETED).
- July and December 2012
 - Volunteer Drive continues for both Tasi Watch and Our Laolao Campaign (COMPLETED);
 - 4 more trainings were given to volunteers and Community Rangers.
 - These training were given by Ms. Eloise Lee of SeaWeb:
 - a. Videography (Tasi Watch Staff & Volunteers);
 - b. Data Collection, Assessment, and Reporting (Tasi Watch Staff & Community Rangers);
 - c. Education & Outreach (Community Rangers); and
 - d. The Do’s and Don’t of Power Point Presentations (Tasi Watch Staffs and Volunteers).
- January 2013

MINA also focused on improving the program, as with all the months. Within the Tasi Watch Community Ranger, 7 individuals will focus on monitoring Laolao Bay and 13 Fishermen zones, the remaining 4 individuals will focus primarily on the outreach component named “Voices of Tasi Watch.” This outreach effort was conducted twice this month at a local market in Kagman. This site was chosen due to high traffic. Customers ranged from fishermen, beachgoers, and other community members. “Voices of Tasi Watch” positioned a booth on the sidewalk.

- **Volunteer Hours/Contact Hours**

DATE	EVENT NAME	LOCATION	Number of Staff	Number of Volunteers	Number of Hours	Sum of Hours
1/5/2013	Ranger Monitoring	Laolao Zones	0	7	2	14
1/6/2013	Ranger Monitoring	Laolao & 13 Fishermen	0	7	2	14
1/7/2013	Ranger Monitoring	13 Fishermen	0	7	2	14
1/9/2013	Ranger Monitoring	Zone 4	0	7	2	14
1/10/2013	Ranger Monitoring	Zone 2	0	7	2	14
1/12/2013	Voice of Tasi Watch	Kagman Market	1	5	2	10
1/12/2013	Ranger Monitoring	Laolao & 13 Fishermen	1	7	2	14
1/13/2013	Ranger Monitoring	Laolao Zones	1	4	2	8
1/14/2013	Ranger Monitoring	13 Fishermen	0	7	2	14
1/19/2013	Ranger Monitoring	Laolao Zones	0	5	2	14
1/19/2013	Invasive Plant Removal	Zone 2	1	9	2	18
1/20/2013	Ranger Monitoring	Laolao and 13 Fishermen	1	7	2	14
1/22/2013	Ranger Monitoring	Laolao Zones	0	4	2	8
1/23/2013	Ranger Monitoring	Laolao Zones	0	4	2	8
1/24/2013	Ranger Monitoring	Laolao Zones	0	4	2	8
1/26/2013	Voices of Tasi Watch	Kagman Market	1	4	2	8
1/26/2013	Ranger Monitoring	13 Fishermen	0	2	2	4
1/27/2013	Ranger Monitoring	13 Fishermen	0	2	2	4
1/28/2013	Ranger Monitoring	13 Fishermen	0	2	2	4
1/31/2013	Monthly Ranger Meeting	MINA Office	3	3	2	6

Community Ranger Report

Zone 1:

It was identified that a Blue Tacoma ADJ 971 with Boat CM 1622 PU (12-14 ft) was launched at Zone 1. Tire marks are found on the shore of Zone 1 also a location where there is a medium boat launch activity. Higher boating traffic activity may contribute to erosion of the shoreline or loosening of the sand. Household trash was identified which contributed to the illegal dumping in zone 1. Most litter that was picked up was located near the BBQ pit and common picnic areas within the zone.

Zone 2:

All pavilions at zone 2 were occupied by beach goers having picnics. Most of the litters found were around the beachgoer picnic areas. Scattered trash is a result of the stray dogs rummaging through piled trash left by beach goers. It appears that the efforts in monitoring and invasive plant removal increased camping activity for family camp out events.

Zone3:

For the month of January there were no new open burning incidents. In this zone, there

was a high traffic of Scuba Diving vehicles transporting diving equipment and tourist. In summary, open burning areas are mostly identified on the right side of the zone facing the water. There were no new incidents of illegal dumping of house hold trash.

Zone 4:

Minimal to no activity. The roadway was maintained by completing of monitoring and cleaning of zone bi-monthly. There was no new open burning identified at the trail near the jump off area. Beachgoer trash were found consisting of alcoholic beverage aluminum cans, bottles, etc.

13 Fishermen Beach Park, Garapan

Implementation of monitoring at 13 Fishermen began:

For the month of January, continued monitoring efforts for the 13 Fishermen area. Identified Picnickers and Beachgoers reside in Kobler, Gualo Rai, and China Town which consisted of Foreign Nationals and Micronesians: Fillipinos, Chuukese, Chinese. Medium to high rate of litter was found around picnic pavilions and near the MINA Trash and Recycle bins.

- February 2013

For the month of February the MINA team focused on improving the program, as with all the months.

- ❖ February 01 –Tasi Watch rangers set up a learning station at the First Friday Film events.
- ❖ February 02- MINA hosted a gathering at the MINA hut to show appreciation for the Tasi Watch Rangers.
- ❖ February 06- Staff meeting was held at the MINA office to discuss a Student/Teacher Workshop that was facilitated by MINA. Tasi Watch Community Rangers will be assisting with the workshop.
- ❖ February 08- The Tasi Watch Community Rangers were guests on the OurLaolao Campaign radio show at KKMP radio station. They spoke about the Tasi Watch Outreach Program.
- ❖ February 09- Tasi Watch coordinated a tree drop off that collected Tres Anos coconut trees. (dwarf coconut trees)
- ❖ February 16- With collaborations with government agencies including DEQ and CNMI Forestry an invasive plant removal event took place along with a tree planting event in Laolao.
- ❖ February 19- Three Tasi Watch Rangers assisted with workshop compiling giveaways for the workshop.
- ❖ February 23- An outreach learning station was set up at the DYS Workshop.

Assessment of Volunteers and Contact Hours

The following table provides a list of outreach events and hours made for matching purposes.

*Please take note that format of table is different from previous months, it is more simplified.

SUM OF TOTAL column is calculated as it was stated in program proposal.

Date	Event Name	Location	Number of Staff	Number of Volunteers/Rangers	Number of Volunteer Hours	Sum of Volunteered Hours per \$
02/01/2013	Voices of Tasi Watch-Learning Station	American Memorial Park	2	5	2	10`
02/08/2013	Radio Show	KKMP	1	3	3	9
02/09/2013	Tres Anos Drop Off	Kagman Market	2	15	2	30
02/16/2013	Tres Anos Planting and Invasive Plant Removal	Laolao Bay Zone 1 and 2	2	21	2	42
02/23/2013	DYS Parent Workshop	Fiesta Resort	0	2	2	4

Tasi Watch Ranger Report Summary:

Laolao Bay

Zone 1:

Tire marks are found on the shore of Zone 1 also a location where there is a medium boating activity. Higher boating traffic activity may contribute to erosion of the shoreline or loosening of the sand. Open burning was identified near the boat launch area next to the shore.

Zone 2:

All pavilions at zone 2 were occupied by beach goers having picnics. Most of the litters found were around the beach goer picnic areas.

Zone3:

Trash was found piled up in the center of the area in front of the parking lot barrier. In this zone, there was a high traffic of Scuba Diving vehicles transporting diving equipment and tourist.

Zone 4:

Minimal to no activity. The roadway was maintained by completing of monitoring and cleaning of zone bi-monthly. Open burning was identified on the trail near the jump off area. Beach Goer trash were found consisting of alcoholic beverage aluminum cans, bottles, etc.

13 Fishermen Beach Park, Garapan

Implementation of monitoring at 13 Fishermen began:

For the month of January, there were high amounts of litter found around the pavilion picnic areas. Most of the individuals identified at the pavilions were of foreign national descent; Filipinos, Chuukese, Tourist Divers (13 Fishermen monument). Identified villages of residence: Garapan, China Town, and Kobler. Majority of the litter that was collected were consisted of picnic waste and alcoholic beverage cans.

Garapan Fishing Base

Monitoring began in mid-March 2013.

- March 2013

For the month of March the MINA team focused on improving the program, as with all the months.

- ❖ March 02- Tasi Watch Rangers assisted with the Environmental Camp by transporting supplies from the MINA office to Laolao Bay Golf Resort.
- ❖ March 09- A site visit was performed by the Tasi Watch rangers with SeaWeb's program associate at Laolao Bay.
- ❖ March 12-A Tasi Watch Ranger meeting was held at the MINA conference room. The agenda included a new uniform policy, new monitoring forms, new schedules, and upcoming events.
- ❖ March 16- Tasi Watch Rangers set up a learning station at the Mahi Fishing Derby located at the Smiling Cove.
- ❖ March 22- Tasi Watch Rangers assisted Ryan Okano of DEQ on maintaining the Laolao Badlands.
- ❖ March 23- Tasi Watch Rangers assisted with the Environmental Camp Presentation at American Memorial Park by transporting supplies.

- ❖ March 23- Tasi Watch Rangers set up a learning station at the American Memorial Park.

Volunteer Hours and Contact Hours.

The following table provides a list of outreach events and hours made for matching purposes. *Please take note that format of table is different from previous months, it is more simplified. SUM OF TOTAL column is calculated as it was stated in program proposal.

DATE	EVENT NAME	LOCATION	Number of Staff	Number of Volunteers/Rangers	Number of Volunteer Hours	Sum of Volunteer Hours per \$
03/02/2013	Voices of Tasi Watch-Learning Station	Laolao Bay Golf and Resort	5	3	9	27
03/16/2013	Voices of Tasi Watch-Learning Station	Mahi Fishing Derby	1	8	2	16
03/23/13	Voices of Tasi Watch-Learning Station	American Memorial Park	2	4	4	16
Total Hours for the Month of March:						59

First Year Community Stewardship

The purpose for these collaborations is to allow people to increase their knowledge and understanding of how human induced stressors can adversely impact Laolao Bay’s fragile marine resources. These partnerships will further develop the Laolao Bay Environmental Rehabilitation Services. A program aimed to assist society’s adult and youth menaces by having them participate in scheduled environmental activities to promote social and behavioral change towards Laolao Bay’s coastal habitats.

The Outreach Coordinator has thus communicated with the following organizations to further enhance the programs:

1. Youth Environmental Ambassadors Club of Saipan Southern High
2. Pacific Marine Resources Institute
3. Kagman High School
4. Neighborhood Watch Group

5. AmeriCorps
6. Church of Jesus Christ
7. Top Model Group
8. Marianas Health Services
9. Non-Communicable Diseases Alliance
10. Northern Marianas Coalition Against Domestic & Sexual Violence
11. Northern Marianas Protection & Advocacy Systems, Inc. (NMPASI)

Other government agencies partnered with MINA to help assist in our efforts to keep the project site clean, participate in tree planting or coastal revegetation, assist the Community Rangers in monitoring of the Laolao Bay coastal areas, and other activities that would help improve their knowledge and appreciation for conservation.

1. Juvenile Probation Unit
2. Office of Probation
3. Board of Parole
4. Department of Public Safety
5. Department of Homeland Security

The Department of Public Safety (DPS) will be responsible for the training and certification of our Community Rangers. The Department of Homeland Security (DHS) will be training and certifying the MINA Staff and Executive Director, Volunteers, and the Community Rangers in CPR and Community Emergency Response (CERT). However, given the lack of resources and capacity of DPS and DHS to provide adequate training and certification to MINA's staff, volunteers and Community Rangers, this training remains tentative to date.

Forms developed during the reporting period:

1. Volunteer Sign-up Sheets: To keep track of the number of volunteers participating in each event;
2. Brochures: Summarizes the Tasi Watch Outreach Program and promote sustainable methods to protect Laolao Bay;
3. Volunteer Application: To ensure that MINA has a complete database of each volunteer and their field of interest or expertise;
4. Volunteer Waiver Form: To ensure that MINA, its funders, sponsors, and partners are not responsible for any negligence of the volunteer;
5. Volunteer Master List: To ensure a compile list of all volunteers for proper record keeping and reporting;
6. Volunteer Event List: To keep track of outreach events, the number of volunteers participated, and the number of hours from each volunteer;
7. Volunteer Educational Curriculum: A short training manual to keep all volunteers updated with current environmental issues and familiarize them with common terminologies used for conservation;

8. Volunteer Manual: To guide each volunteer on MINA's standard operating procedures for outreach activities, policies and procedures, public safety, and good behavior; and
9. Baseline Survey: To be used to measure Laolao Bay users' knowledge, attitude, and behavior.

MINA had experienced some setbacks during the planning phase. However, with strong partnerships, good strategic planning, great educational resources, committed volunteers and staff, trained Tasi Watch Community Rangers, the program's implementation phase will progress forward and operate smoothly with a goal of having favorable data from our activities and surveys.

Laolao Bay Tasi Watch Outreach Action Plan (October 1, 2011 – March 30, 2012)

Date	Plan	Individuals Involved	Resources Needed	Status
	Marianas Health Services presentaton	Shirlynn	None	3/7/2012
	Saipan Southern High YEA Club Presentation	Shirlynn	NONE	3/8/2012
	Top Model	Shirlynn	None	3/10/2012
	Hire Outreach Coordinator	Sam	CRI Funding	3/15/2012
	SIS: 2,3 & 5 th Grade Marine Debris Presentation	Shirlynn & Herb	None	3/10
	Laolao Bay Tasi Watch Beach Cleanup – Zone 2	CRM/MINA/DEQ/Volunteers	MINA Trash Equipment; CRM to weigh trash; Transport trash	3/17/2012
4 th Week of April	Complete Draft of Laolao Bay Tasi Watch Volunteer Curriculum	Shirlynn for Draft Sam Approve	Personnel Time	April 2012
April	Preparation for ECO hike – Laolao Bay	MINA Staff and partnering agencies	Volunteer hours, personnel time and MINA Vehicle	Completed
April	Goal of registering 30 volunteers	Herb	Recruiting	Completed

April	Finalize Learning Station Materials	Herb; Shirlynn; & Volunteers	Personnel & Volunteer time	Completed
April	Collaborate with JPU to provide man hours for probationers	Herb	JPU Staff and transportation of Probationers	Completed
Date	Plan	Individuals Involved	Resources Needed	Status
May	Beach Cleanup	Staff & Volunteers	Trash Equipments; Data Sheets & Personnel hrs.	COMPLETED
May	Outreach with Behavioral Health Awareness @ street market	Herb & Volunteers	Personnel time	Completed
May	Training – Laolao Bay Tasi Watch Outreach	Shirlynn & Herb; Community Rangers & Volunteers	Personnel; Materials; Presentation equipments	COMPLETED
June	Invasive Plant Removal @ Laolao Beach	Board of Parole & MINA Staff	Field equipments & personnel time	COMPLETED
	Establishing Learning stations @ Kagman & San Vicente	MINA Staff & Volunteers	20 hours	COMPLETED
	Presentation for Neighborhood Watch Group in Kagman, Dandan, & San Vicente	MINA Staff	Personnel time	Completed
JULY 2012	CERT/CPR Training & Certification	MINA Staff, Management, Community Rangers & Volunteers	None	Not completed. Trainer resigned and has not been replaced.
	Survey 100 people in Laolao Bay area.	MINA Staff & Volunteers	Materials; personnel time	Completed
	Learning Stations at Laolao Bay.	MINA Staff & Volunteers	Educational materials; personnel	COMPLETED
	TRAINING	MINA Staff , 30 volunteers	Materials & personnel; PRESENTERS	COMPLETED
August 2012	Invasive Plant Removal at Zone 2	Board of Parole	Equipments & Personnel	COMPLETED
	2 nd presentation with Neighborhood Watch Group	Neighborhood Watch Group & MINA Staff	Equipment & personnel staff; education materials	COMPLETED
	Eco-Hike to Laolao Bay Bad Lands	CRI Interns; Volunteers & MINA Staff		COMPLETED
SEPTEMBER 2012	Learning Stations	Volunteers & Herb Sablan,	Materials;	COMPLETED

	@ PSS	Outreach Coordinator	personnel time	
	Volunteer Drive @ Public and Private Schools	Volunteers & MINA Staff	Personnel time	Completed
	Beach Cleanup @ Zones 1,2,3 & 4	MINA staff, Community Rangers, Volunteers.	Cleanup materials, data sheets;	Completed
	Survey 100 Laolao Residents	MINA Staff , Volunteers, & Community Rangers	Survey materials & Personnel time	Completed
October 2012	Evaluation sessions with Community Rangers & Volunteers	MINA Staff, volunteers, Community Rangers & SeaWeb	Presentation, materials, personnel time	COMPLETED

VIII. Laolao Bay Community Rangers: *Monitor and Apply Conservation*

In March 2012, two Community Rangers were hired to monitor and survey Laolao Bay coastal areas in the first two months of their assignment. To date, a total of ten Community Rangers were recruited and trained. All the Community Rangers are currently Kagman and San Vicente residents. These Community Rangers will be responsible for the following task. Please note that the Rangers’ job description remained the same for the second year of which an additional site was added, the Garapan District areas.

Job Purpose

The Laolao Bay Community Rangers will work to protect, manage and enhance the local environment. This includes woodland, forests, coastal areas, moorland, mountains and streams. Depending on the region, Rangers might also work in marine and terrestrial habitats.

Duties:

- Engages with Stakeholders;
- Promoting and implementing local biodiversity action plans in partnership with Division of Fish & Wildlife conservation officers and voluntary organizations;
- Contribute to planning and policy development for sustainable management, including input in environmental impact assessments;
- Monitoring features of nature conservation interest in habitats and sites;
- Maintaining and developing own knowledge and skills, especially with regard to knowledge of developments in policy, legislation, and local regulations;
- Promoting the concept of sustainability to the public, colleagues and fellow professionals through talks, tours, displays and workshops;

- Organizing, supervising, training and supporting paid staff and volunteers;
- Maintaining effective records using IT database systems;
- Reports directly to the Project Manager on a weekly basis.

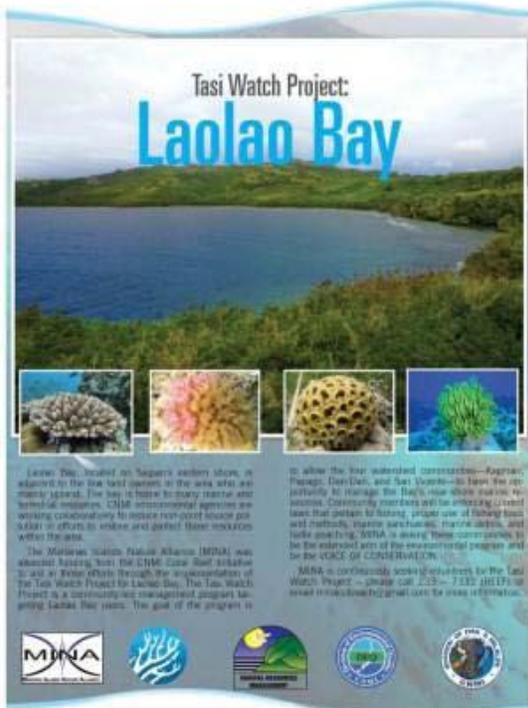
To date, the Community Rangers reported that many of the littering at Laolao Beach areas attributed mainly from picnic activities. However, some of these problems occur mainly during nights. Community Rangers have agreed to monitor Laolao Bay coastal areas in the evenings to hopefully reduce littering. Nightly schedules have not been implemented however night monitoring will be in effect by November 15, 2012. Furthermore, transportation remains problematic for the Community Rangers. A reliable vehicle is urgently needed to continue their monitoring activity. However, MINA has solicited support from Laolao Bay Golf and Resort to donate a golf cart for the Community Ranger program. Hence, we are still waiting for their approval to date.

IX. Supporting Materials (January – September 2012)



The MINA Tasi Watch
Outreach Hut at Laolao
Beach.

The Tasi Watch T-Shirts for the Volunteers &
Laolao Bay Community Rangers



Outreach Materials



Lao Lao Bay

is located in the southern part of Laos. It is best known for its diverse fish species in the warm shallow waters of mangrove, limestone caverns, and open lagoons. It is also an important nesting ground for the endangered green sea turtle. Lao Lao Bay is also the only coral garden that is indigenous to the coast. In 2007, the national marine park of the coast north of Vientiane was set up by the National Authority (The Economic Value of the Coastal Waters of Laos, 2007, 2008). In 2012, the Lao Lao Bay was selected as one of the 100 most beautiful bays in the world by National Geographic magazine.

Water pollution that leads to the destruction of coral reefs and the loss of biodiversity is a global problem that has led to serious and irreversible damage to our oceans and marine life. In 2012, the Lao Lao Bay was selected as one of the 100 most beautiful bays in the world by National Geographic magazine. In 2012, the Lao Lao Bay was selected as one of the 100 most beautiful bays in the world by National Geographic magazine.

What is the LAO LAO BAY TASI WATCH OUTREACH PROGRAM?

It is an outreach program to educate local residents, tourists, and non-residents about Lao Lao Bay's rich natural resources and how they can work together under a social change to protect them. MAMA aims to change and raise people's thinking behaviors, to take a more responsible and sustainable approach to the their own consumption of the Bay and to pledge to be the eyes of the sea.

KNOW THE NOS!

- NO LITTERING**
- NO FISH FEEDING**
- DO NOT STAND ON CORAL!**

Laolao Bay Signages

CORALS ARE NOT JUST ROCKS

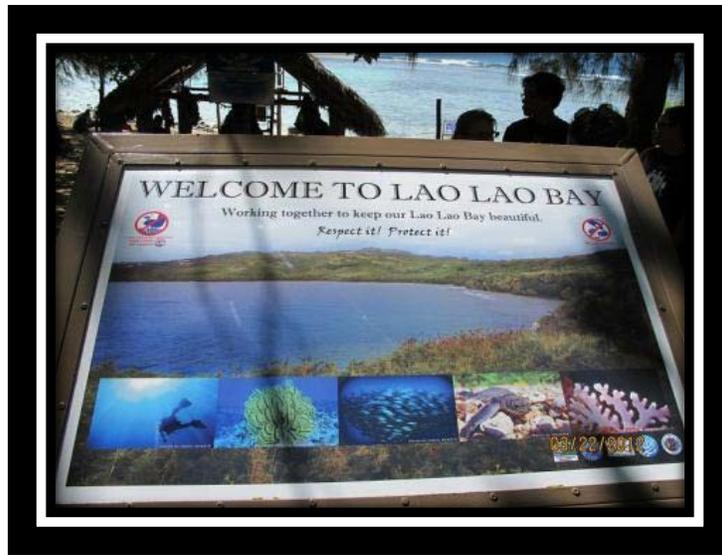
They are LIVING, "solar-powered" animals. Stepping on corals hurts them.

Each coral colony is comprised of hundreds of individual animals called polyps which are related to jellyfish and anemones. They use stinging tentacles to catch their food. The coral animal slowly creates their own hard, calcium skeleton which is why they sometimes look like rocks! To help feed the coral and build their skeleton, the coral have photosynthetic algae called zooxanthellae in their tissue.

NO STEPPING ON CORALS

サンゴは動物であり、その成長は非常に遅く、一度壊れると回復には数十年かかります。サンゴを踏みつぶすことは、サンゴの死を意味し、サンゴ礁生態系全体の崩壊につながります。サンゴを踏みつぶさないでください。

San coral are animals and their growth is very slow. Once damaged, it takes decades to recover. Stepping on coral means the death of coral, which leads to the collapse of the entire coral reef ecosystem. Do not step on coral.



The Tasi Watch Project & The Our Laolao Campaign Launch

