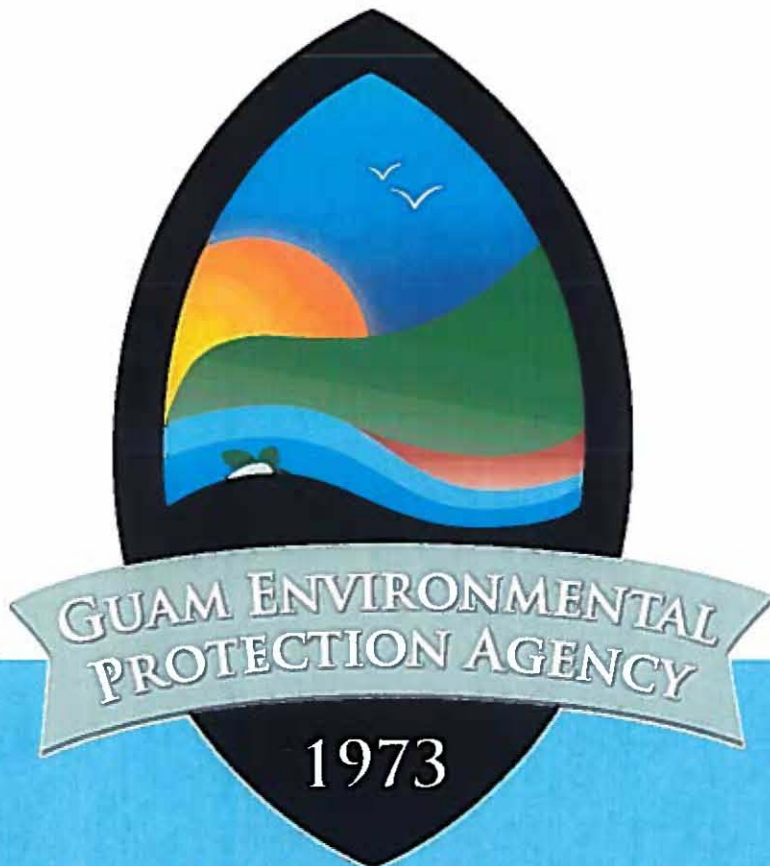
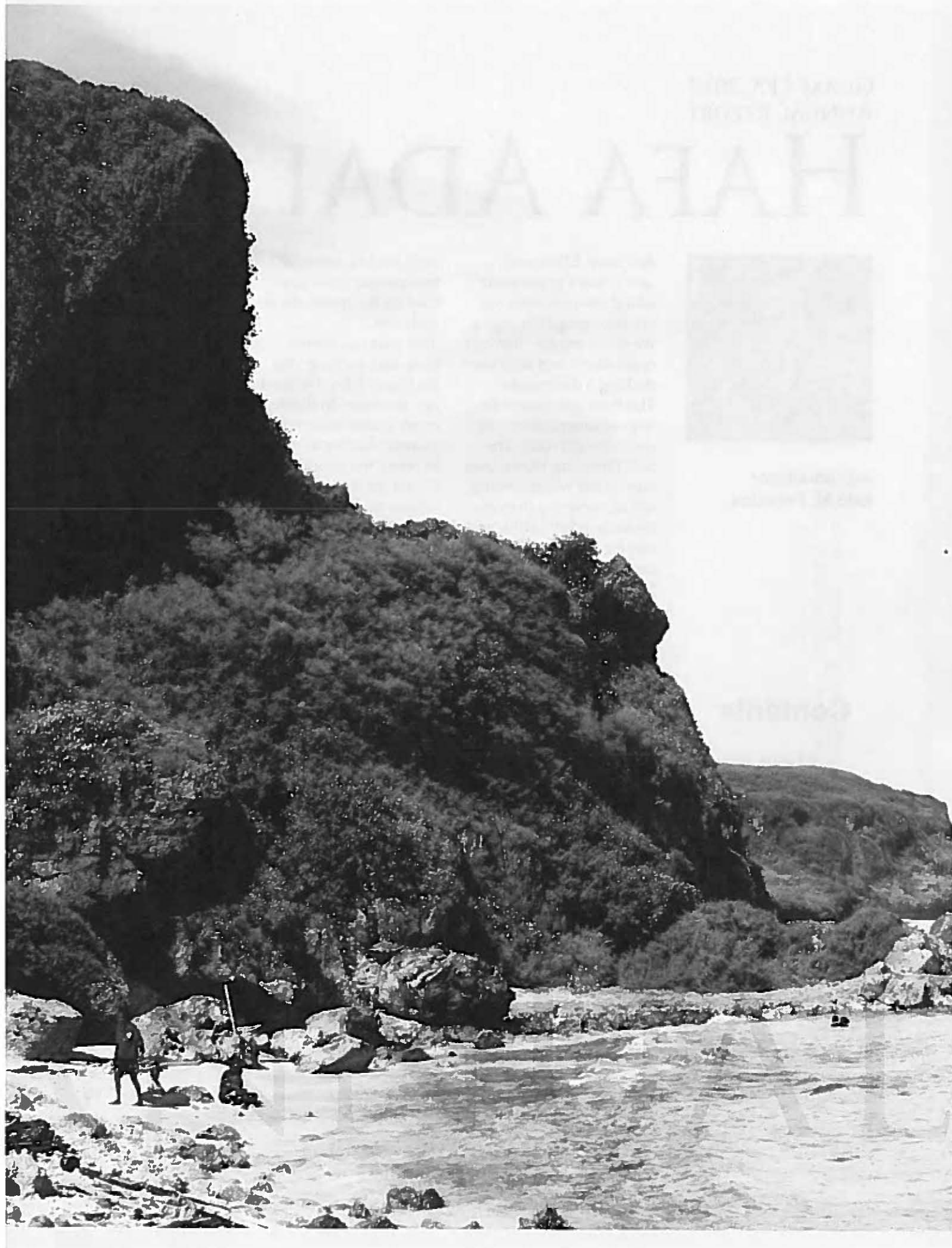


2012

ANNUAL REPORT



TODO Y NILALA Y TANO MAN UNO
ALL LIVING THINGS OF THE EARTH ARE ONE



GUAM EPA 2012
ANNUAL REPORT

HAFADA



**Administrator
Eric M. Palacios**

As Guam EPA continues to work protect our island environment, we are encouraged by signs we see every day that our regulations and laws are making a difference. The laws we enforce to stop sedimentation help protect coral reefs. The Safe Drinking Water laws ensure the water coming out of every tap in every home is safe to drink and use for cooking, washing and cleaning. Our requirements for new buildings and construction sites help protect fragile forest areas and ensure companies that do not comply

with the law are unable to continue work until they fix the problems at their site.

This year has been a busy and exciting year for Guam EPA. We filed our first ever civil suit in court against an environmental violator in order to repay the people of Guam for the damage caused to collective natural resources.

Guam EPA handled thousands of permit applications, including a permit application for Guam's first Municipal Solid Waste Landfill Facility (MSWLF). Guam EPA staff attended

hundreds of hours of training to better prepare ourselves for responding to environmental situations.

We improved our communications by relaunching the website and expanding the activities of the Environmental Education Committee. We have been busy and will continue to work hard to ensure every program is capable of upholding the laws and regulations we are bound to enforce.

We do this job not because it is easy, but because it is the right thing to do.

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HISTORY OF GUAM EPA



Sampling: Guam EPA staff take a water sample in the 1980s. The sampling program successfully continues to this day under the Water Division of the agency.



Harmon office: Staff pose in front of Guam EPA's office in Harmon during the mid 1980s.



Educating: Guam EPA staff work under the direction of Benny Cruz, right, and Jesus Castro, 2nd from right, to build an educational outdoor location.

In 1972, Acting Gov. Kurt S. Moylan signed Public Law 11-191 allowing the creation of the Guam Environmental Protection Agency. The Public Law gave responsibilities once given to different agencies and commissions to the newly formed Guam EPA. The commissions were formed out of concern for the environment and public health. The new agency was to incorporate these commissions and their mission to protect water, air, land and all aspects of the environment. After a year of legwork, Guam EPA officially started work in March of 1973 and took up residence at the Harmon Plaza.

The legislation that enables the Agency also outlined the direction and mission of Guam EPA. The main objective of establishing Guam EPA was to protect and maintain a high quality environment for all residents to enjoy. This continues to be the main focus of the Agency. To do this work, the staff of the Agency developed laws, rules, regulations and various enforcement tools to achieve this goal. This includes passing landmark legislation like the Guam Safe Drinking Water Act and regulations to support

THE AGENCY SEAL



New Agency Logo

During 2012, Guam EPA adopted for the first time, an official logo. The logo incorporates aspects of the official seal. It also features Guam's ocean and land resources and reflects the connectedness of all the earth. The Agency has been incorporating the new logo in all programs since June 2012.



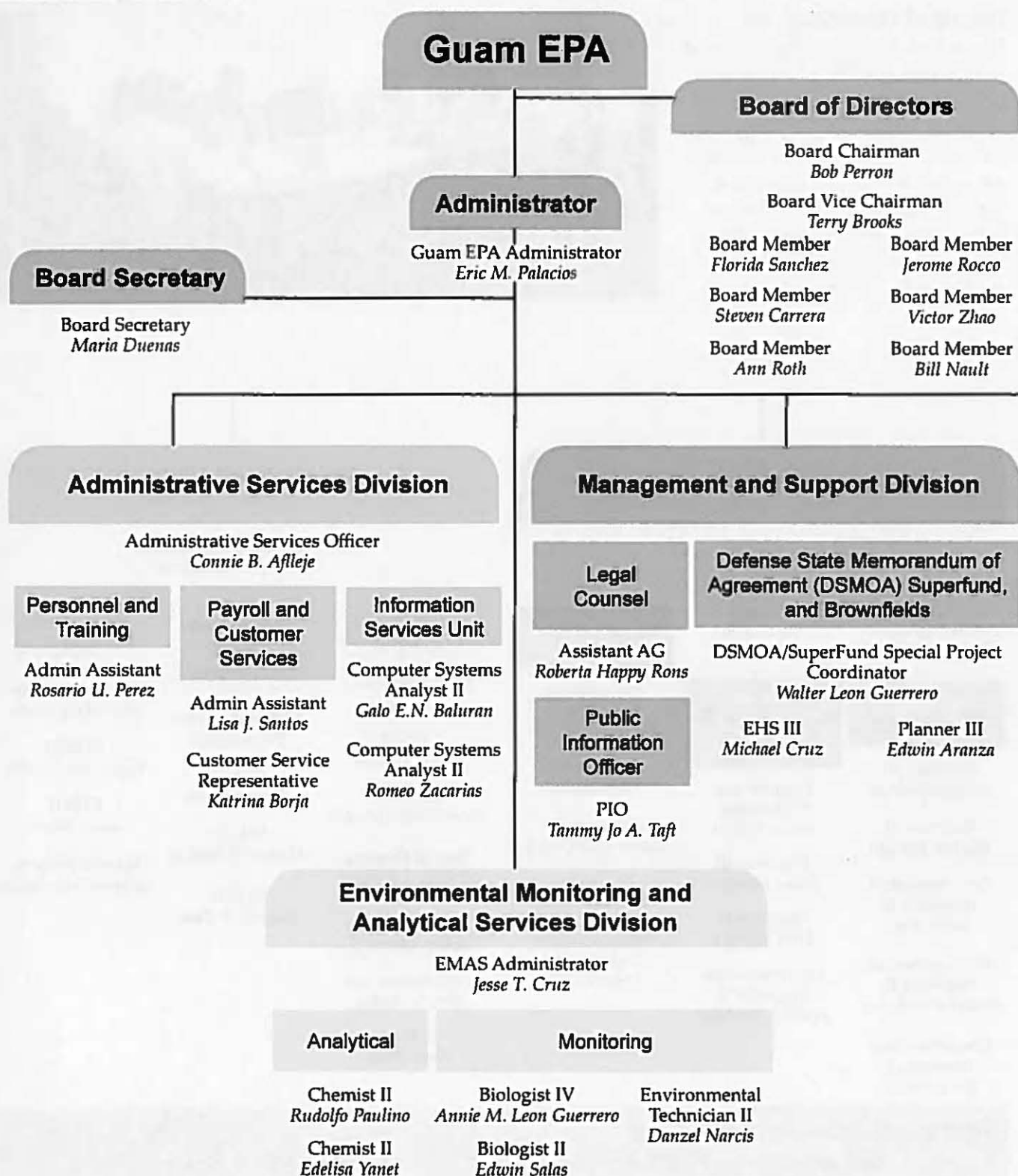
the Act.

Every program within the agency has an objective laid out by local law and supported by a complex set of regulations. Some programs do work to support the efforts of other agencies like the Department of Public Health or federal partners like U.S. EPA.

As the agency began its official work, the creation of a seal was also commissioned. The Seal of the Agency was created by artist Roger G. Faustino and is a source of great pride for the agency. It highlights how fragile our environment is and that as residents, with a long legacy of caring and protecting Guam, it is our responsibility to ensure this fragile natural paradise is cradled in the palm of our hands. Around the artwork is the words "Todo Y Nilala Y Tano Man Uno." These words highlight what we know to be true, all living things on this island are connected through the environment.

Throughout the years, the Agency has grown with the times and adjusted to meet the evolving needs of the island. Regulations are updated. Educational campaigns are improved. Instead of using posters, Guam EPA now uses Facebook. Reports are filed digitally. Maps are computer-generated and provide layers of information about property that may be developed or inspected. New scientific equipment exists to help biologists monitor the health and quality of rivers, streams and other water sources.

In addition to the advancements in technology, Guam EPA has an ever-advancing staff who bring new ideas and skills to the table. Hiring individuals with advanced skills or knowledge in computer science, engineering, water quality, biology, chemistry and project management has helped the Agency adapt and change throughout the years. That is why, 40 years later, Guam EPA is still at the forefront of environmental protection in Guam.



Board of Directors: The Guam EPA Board of Directors meet in the Agency's Main Conference Room. During the year, the Board conducts business during regular and special meetings. The meetings are advertised in the newspaper, through free radio ads and on the Agency's website. Minutes of these board meetings are available with the Board Secretary.



Water Division

Acting Chief Engineer
Angel B. Marquez

Program
Coordinator
Margaret Aguilar

Planner
Ray Calvo

Safe Drinking Water

Water Pollution Control

Engineer III
Johnny Abedania

Engineer II
Maricar Quezon

Environmental
Inspector II
Mateo Paet

Environmental
Inspector II
Verony Charfauros

Environmental
Inspector I
Jim Farnum

Water Resources Management

Engineering
Supervisor
Benny Cruz †

Engineer III
Susan Marquez

Engineer II
Elvis Ventura

Environmental
Inspector II
Francis Mendiola

Engineering
Supervisor
Angel B. Marquez

Engineer II
Jerry Aquino

Engineer II
Carmencita Cortez

Engineer I
Rustico J. Joya

Special Projects
Coordinator
Abdur Rahim

Air and Land Division

Air and Land Administrator
Conchita S.N. Taitano

Air Pollution Control

EHS Supervisor
Peter Cruz

EHS III
Luong Truong

EHS III
Steve Norby (retired)

Special Projects
Michelle Lastimoza

Pesticides Enforcement

EHS Supervisor
Betwin Alokoa

EHS III
Karl Olson

Hazardous Waste Management

EHS Supervisor
Vince Pereira

EHS III
Don Quinata

EHS III
Michael O'Mallan

EHS II
Edgardo P. Ibay

Solid Waste Management

EHS Supervisor
Roland Gutierrez

EHS III
Glenn San Nicolas

EHS II
Laura Kanai

Special Projects
Sabrina Cruz Sablan

Notes about the Agency's Staff

Guam EPA continues to have a highly-qualified, educated and hard-working staff at the agency. Most positions at Guam EPA, including positions as a biologist, chemist or engineer, require a college degree. Many employees work extra hours to ensure reviews are done in a timely manner, emergencies are responded to and customers are given the proper attention and care. The high-caliber of staff at Guam EPA is a source of pride for all who work at Guam EPA.

Administration



Guam EPA Administrator
Eric M. Palacios



Board Secretary
Maria Duenas

Management and Support Division

Legal Counsel



Assistant AG
Roberta Happy Rons

Public Information Officer



PIO
Tammy Jo A. Taft

Defense State Memorandum of Agreement (DSMOA) Superfund, and Brownfields



DSMOA/SuperFund Special Project
Coordinator
Walter Leon Guerrero



EHS III
Michael Cruz



Planner III
Edwin Aranza

Monitoring



Biologist IV
*Annie M.
Leon Guerrero*



Biologist II
Edwin Salas



Environmental
Technician II
Danzel Narcis

Administrative Services Division



Administrative Services Officer
Connie B. Afleje

Personnel and Training



Admin Assistant
Rosario U. Perez



Admin Assistant
Lisa J. Santos

Payroll and Customer Services



Customer Service
Representative
Trina Borja

Computer Systems
Analyst II
Romeo Zacarias

Information Services Unit



Computer Systems
Analyst II
Galo E.N. Baluran

Trainees



Environmental Monitoring and Analytical Services Division



EMAS Administrator
Jesse T. Cruz

Analytical



Chemist II
Rudolfo Paulino

Chemist II
Edeliza Yanet



Water Division

Water Pollution Control



Engineer III
Johnny Abedania



Engineer II
Maricar Quezon



Environmental
Inspector II
Verony Charfauros



Environmental
Inspector II
Mateo Paet



Special Projects
Jun Quezada



Special Projects
Coordinator
Helen Gumataotao

Water Resources Management



Engineering
Supervisor
Benny Cruz †



Engineer III
Susan Marquez



Engineer II
Elvis Ventura



Environmental
Inspector II
Francis Mendiola



Environmental
Inspector I
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Safe Drinking Water



Engineering
Supervisor
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Engineer II
Jerry Aquino



Engineer II
Carmencita Cortez



Engineer I
Rustico J. Joya



EHS II
Edgardo P. Ibay



Special Projects
Coordinator
Abdur Rahim

Air and Land Division



Planner
Ray Calvo



Program
Coordinator
Margaret Aguilar



Solid Waste
Management



EHS Supervisor
Roland Gutierrez



EHS III
Glenn San Nicolas



EHS II
Larua Kanai



Special Projects
Sabrina Cruz Sablan



Air and Land
Administrator
*Conchita S.N.
Taitano*

Air Pollution Control



EHS Supervisor
Peter Cruz



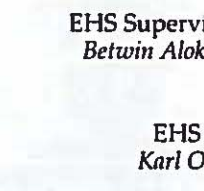
EHS III
Luong Truong



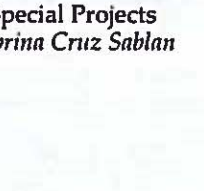
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Betwin Alokoo



EHS III
Karl Olson

Hazardous Waste Management



EHS Supervisor
Vince Pereira



EHS III
Don Quinata



EHS III
Michael O'Mallan



Pesticides
Enforcement



OVERVIEW OF 2012



Moving forward and completing five-year objectives

This year Guam EPA worked towards finalizing the five-year work plan submitted to U.S. EPA in 2009. This plan includes objectives like handling the impending military buildup, overseeing the closure of the Ordot Dump and opening a new landfill in compliance with local and federal laws.

The five year plan also included plans to grow the agency's Geographic

Information System (GIS) capacity, improve stormwater management for the island and updating key regulations to support various enforcement needs.

In 2012, Guam EPA was completing year four of five of the work plan submitted to U.S. EPA.

Many notable goals were achieved and Guam EPA continues to work at meeting the objectives set for completion in 2013.

One of the main accomplishments in 2012 was the successful closure of the Ordot Dump. The Dump is a Superfund site and was closed as part of a Consent Decree between the federal government and the Government of Guam. Closing this site included thousands of hours of manpower to review plans, implement engineering guidelines and make sure everything was done in

compliance with the law.

In addition to the closure of the Dump, Guam EPA's Consent Decree team oversaw the opening of Guam's first sanitary Municipal Solid Waste Landfill Facility (MSWLF) in Dandan, Inarajan. The highly-engineered facility began taking the island's waste in late 2011 and has continued to do so throughout 2012.

The Agency also saw the passage of new



Partnering: Guam EPA worked with B.P. Carbullido Elementary School to do a cleanup effort before the 2012/2013 school year. Staff Francis Mendiola, left, and Ray Calvo, right, take a break between cleanup activities.

regulations for the Pesticide Enforcement Program. These new regulations made it possible to protect hundreds of farm workers and thousands of hospitality workers using pesticides every day.

The Water Division Programs also made significant progress with the Water and Wastewater Operators Certification exam, improving enforcement on construction

projects and watershed restoration work in the Ugum area of Talofofo.

Guam EPA also has been working hard to establish Total Daily Maximum Loads (TMDLs) for various beaches to give our biologists a baseline to measure bacteria content and other parameters. This process will help the Agency have a better understanding of water quality and ecosystem health.

Agency loses mentor, engineer and friend

This year Guam EPA suffered an unexpected loss when one of the Agency's most loved and respected employees passed away. Benny C. Cruz began his career with Guam EPA more than 20 years ago and was a mentor and friend to countless employees. His steady guidance, unwavering determination to do things the right way and his humble spirit made him irreplaceable. Benny's work with the Water Resource Management Program will leave a long-lasting impact on Guam's natural resources and his steady hand will continue to be missed during meetings, daily activities and gatherings. His knowledge was extensive and his compassion for coworkers, and animals made the Agency a better place. Benny, you are truly missed and we will never forget you or your ideals.

Benny C. Cruz, Aug. 7, 1951 - Nov. 2, 2012





Preparing for school: Guam EPA helped B.P. Carbullido Elementary School get ready for the 2012-2013 school year. Guam EPA staff pitched in to waterblast, paint (above), fixing drainage issues and other work around the campus.



Cleanup site: Guam EPA staff (left to right) Peter Cruz, Galo Baluran, Walter Leon Guerrero, Francis Mendiola, U.S. EPA's Michael Mann, Guam EPA's Mike Cruz and Benny Cruz gather near a Superfund cleanup site at Agana Springs. Guam EPA assisted U.S. EPA in the project cleanup which removed soils with PCB levels from the Springs area.



Radon testing: Environmental Health Specialist Steve Norby reads the amount of radon in a canister at Guam EPA's radon lab.

Steve Norby started with the Government of Guam at the Department of Agriculture. He transferred over to Guam EPA and became a steady employee of the Air Pollution Control Program. Steve worked with the radon lab and conducting outreach about the dangers of radon. In addition to helping residents test their homes for radon, Steve was very knowledgeable about how to mitigate a house to reduce the amount of radon gas in the home. Steve retired in April of 2012 and continues to be an active diver, shell collector and environmental advocate.



Magpro: Guam EPA received 12 MagPro Awards in 2012 for excellence in programs, service and outstanding employees.

FOIA REPORT



2012 Freedom of Information Act Requests

As required by local law, Guam EPA completes Freedom of Information Act (FOIA) requests within four days or ten days, depending if an extension is necessary or not. During 2012, most FOIA requests were coordinated by the Public Information Officer with the assistance of numerous staff.

The following is information required as part of the FOIA Annual Report for the Attorney General's office.

Number of requests for records received by Guam EPA in 2012	27	How many were processed.	27
Number of requests for records pending as of Sept. 30, 2012.	0	Median number of days taken by Guam EPA to process different types of requests.	5
Median number of days that above requests have been pending.	N/A	Number of full time staff devoted to processing requests for records.	.5
Average amount of manpower to complete a FOIA request	10.8 hours	Total number of manpower hours spent on processing FOIAs in 2012	292 hours

Number of determinations made by Guam EPA not to comply with requests for records and reasons for determinations. **0**

NOTE: One request was made for documents that we did not have, and the request had no relation to our work or any documents we have. Guam EPA forwarded that request and contact information to the correct agency and spoke with the requester about her search for information.

Total amount estimated expended by agency for processing requests. **\$5,679.40**

For more information about Guam EPA's FOIA response program contact Public Information Officer Tammy Jo Anderson Taft at 475-1646 or e-mail tammyjoanderson.taft@epa.guam.gov.

This report is being submitted to ensure compliance with Guam's Sunshine Law, 5 GCA, Chapter 10 § 10107. Annual report.

This year, Guam EPA handled more than two dozen FOIA requests. The requests varied in nature, from environmental consulting companies looking for information to assist their Phase I research efforts, to requests from lawyers working on legal cases involving Guam EPA.

Guam EPA's newly-hired legal counsel assisted during many FOIA requests. She helped determine what information was responsive to the request and if any information was not included in the scope identified by the requester.

Guam EPA recently launched the new official website for the Agency. The site includes information about submitting a FOIA to the Public Information Officer and contact information to follow up on the request.

The Agency will continue to process FOIAs in a timely manner in accordance with the law, but we hope to someday improve our information available online to reduce the amount of requests received.

MANAGEMENT & SUPPORT DIVISION



During 2012 Guam EPA brought Assistant Attorney General R. Happy Rons on board as legal counsel. Rons obtained her J.D. with Honors from Illinois Institute of Technology, Chicago Kent College of Law. She has more than 35 years of experience in environmental law, including more than 11 years of experience as a lawyer in Guam. Rons has experience working with environmental law, rules and regulations including negotiating the settlement of massive Navy anchor damage to coral reef. She has been a permanent member of Guam Bar Association for 17 years.



Special Hearing: Guam EPA Legal Counsel and staff present the Agency's case to the Board of Directors during an appeal hearing for Cyfred. The appeal was decided in favor of the Agency.

The Management and Support Division is responsible for many different aspects and includes a varied group of staff and programs.

The Division includes four different focus groups; the Defense State Memorandum of Agreement (DSMOA) and Green Parcels Programs, Guam EPA's Legal Counsel, Public Information Officer and the Hydrogeologist.

Each of these focus areas have specific objectives identified by their work

plans. Currently Guam EPA does not have a Hydrogeologist.

Legal Counsel

Guam EPA was fortunate to bring R. Happy Rons on board during 2012. Rons oversaw and managed many legal challenges that faced the Agency, in addition to helping programs review regulations, ensuring laws and requirements were met and providing guidance to many programs on multiple occasions.

Rons successfully

defended Guam EPA's decision not to issue a permit for an individual wastewater system to Cyfred. The appeal process took multiple hearings and hours of testimony, but Rons brought the appeal to a successful closure.

She also assisted in handling the beginning of the appeal filed by Guam Resource Recovery Partners based on the Agency's decision to deny their permit application. That appeal process was still ongoing at the time this document

was published.

Rons also led Guam EPA's review of the Agency's enabling legislation.

During 2013, Rons will continue working on GRRP's appeal in the first part of the year and reviewing multiple agency regulations during the remainder of the year.

Many Agency regulations are in need of an update. This can hinder the effectiveness of the programs. Updating regulations allows new technologies and years of enforcement to be reflected and outlined through the regulation. This also helps ensure the most current available environmental standards and equipment are used or encouraged by the regulations.

Public Information

Guam EPA this year saw two major awards related to public information and community relations.

In July, the Agency received a Gold star from the Association of Government Accountants for the Best Government of Guam Website award. The website was relaunched in January 2012 and continues to be updated at least twice every week.

Guam EPA handled a minimum of two media calls every week and responded to all FOIAs within the confines of the law.

The Public Information Officer also led the effort to adopt a new logo at the Agency and move toward using the seal for official documents only. This effort included redesigning the letterhead, business cards and other informational pieces used for communication. The work to rebrand the Agency with a new logo is ongoing and will continue until all forms and communication are unified in appearance and style.

The Agency also leads the Guam



Civil Suit for Damages: The illegal dump site run by Joseph Taitano is one of the main cases worked on by Legal Counsel during 2012.

For the first time in collective memory, Guam EPA filed a civil suit against an environmental violator in the Superior Court of Guam.

Guam EPA sued Joseph Taitano of Yigo for operating an illegal dump site on property in Yigo.

The suit states the Taitano's received money for allowing household waste, tires, metallic waste, junk vehicles and other debris to be disposed of on their property illegally.

"Given the extreme damage to the environment, we are pursuing civil litigation to help bring the case to a successful close. Typically our agency takes action through the Notice of Violation and Order of Compliance method. In this situation, we determined the government needed to take additional steps to rectify the situation," said Guam EPA Administrator Eric M. Palacios. The case was still ongoing as of the publication of this report.



ENVIRONMENTAL EDUCATION COMMITTEE WINS LEADERSHIP AWARD

During 2012, the Guam Environmental Education Committee (EEC) won an award from U.S. EPA for leadership in Environmental Education. The award was presented by Michael Mann, U.S. EPA Region 9 representative (above left) to the three group leaders within the EEC (from second left to right), Val Brown, Cheryl Stanford and Christine Camacho. The group is coordinated out of Guam EPA by the Public Information Officer. Throughout the year, the EEC offered various environmental education events like hikes, tours, a camp for kids in the summer and various tours with biologists. The EEC also coordinated monthly snorkeling events to introduce residents to the varied marine life around the island. The EEC consists of three groups, Tano, Tasi and Hanom. Each group has a different focus and set of goals throughout the year. All of the goals are part of the overall EEC strategic plan that was developed in 2011.

WEBSITE LAUNCHED AND AWARDED GOLD MEDAL BY AGA

During 2012, Guam EPA relaunched the website and was awarded a Gold medal for the "Best Government Website" from the Guam chapter of the Association of Government Accountants. This award recognized the new site as being user-friendly and easy to navigate. The website includes comprehensive information about permits and the permitting process. It also includes information about upcoming events, educational opportunities and links to Guam EPA's social media sites. Guam EPA's new website is one part of the Agency's rebranding campaign which also includes a new logo, a stylebook for staff and better signage around the Agency.



Environmental Education Committee (EEC). The EEC brings together government, nonprofit and private entities who focus on environmental education and outreach activities. This group won an award from U.S. EPA Region 9 for leadership in environmental education. During 2012, the group coordinated multiple events including Earth Day 2012, snorkeling events, hikes and various workshops.

Guam EPA's Public Information Officer will be working in 2013 to put all board meetings online through the Agency's Youtube channel.

The Agency will also be promoting various events and outreach activities through social media sites like Facebook and Twitter.

Staff continue to work towards improving the Agency's professional image by using and improving the Communication Standard and Guidelines.

DSMOA and Green Parcels

The Defense/State Memorandum of Agreement (DSMOA) is an agreement between the Department of Defense (DoD) and Guam EPA to provide a framework for working together in



CRITICAL TRAINING OPPORTUNITIES OFFERED TO STAFF AND PARTNERS

The DSMOA Program offered many key trainings for Guam EPA staff and partners throughout the year. This included standard training about hazardous waste response (Haz Woper) and training about agency coordination and reporting requirements under the Emergency Planning and Community Right to Know Act (EPCRA). The program also helped train more than 20 Guam Fire Department staff on the hazardous material response team. This training is critical to ensure first responders completely understand a situation involving potentially hazardous materials or dangerous chemicals.

Defense Environmental Restoration Programs (DERP) and Base Realignment and Closure (BRAC) Programs, while assuring compliance with state and federal laws and regulations. A Cooperative Agreement (CA) exists between Guam EPA and DoD which serves as the funding mechanism for Guam EPA to receive reimbursement of DSMOA eligible services. DoD components include the US Navy (BRAC '93, BRAC '95, and Navy IR) U.S. Air Force (AAFB NPL Site), and the U.S. Army Corps of Engineers.

The DSMOA Program

section also conducts environmental oversight of Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) related sites. This involves the discovery, investigation, and clean-up, when necessary of past hazardous waste contaminated sites. Additional functions include identifying and investigating potential Formerly Used Defense Site (FUDS) in order to submit to US Army Corps of Engineers (USACE) FUDS Program for cleanup. The Defense/State Memorandum of Agreement (DSMOA) is an agreement between

the Department of Defense (DoD) and Guam EPA to provide a framework for working together in Defense Environmental Restoration Programs (DERP) and Base Realignment and Closure (BRAC) Programs, while assuring the compliance of state and federal laws and regulations.

Out of any program at Guam EPA, this group works the closest with Department of Defense partners to ensure projects are thoroughly reviewed and have the best interest of the community in mind.

HOW DOES GREEN PARCELS WORK?

SITE HAS ACTIVITY THAT CAUSES POTENTIAL CONTAMINATION

SITE IDENTIFIED FOR GREEN PARCEL PROGRAM

The Green Parcel Program comes in by first identifying potential sites and creating an inventory. Then, the program follows these steps:

- 1) Identify past uses of each site
- 2) Determine contamination
- 3) Scope and plan the cleaning and redevelopment planning process
- 4) Inform and engage the community

DO PHASE I ASSESSMENT

This is the inquiry stage or "preliminary assessment" and includes historical investigations, records review, preliminary site inspections, adjacent site inspections, and regulatory research.

To do this research, scientists will complete records Review, interviews, site conditions and characteristics gathering, get information about institutional and engineering controls and finally search for recognized environmental conditions.

DO PHASE II ASSESSMENT

The second phase is an in-depth Site Investigation stage, with sampling collection and analysis to determine types, concentrations, and locations of contaminants. This includes a risk assessment and definition of remedial action objectives.

To complete this assessment, scientists will prepare the investigation documents, do multi-media sampling, analyze the samples in a lab, compile data and do a complete risk assessment based on the lab samples.

DO PHASE III ASSESSMENT

After the initial site assessments, professionals begin to analyze the cleanup options for the Green Parcel. The final phase includes community involvement and comments, identifying possible restoration plans (PRPs), treatability studies, analyzing the cleanup options, working with the local government agencies that need to be involved and how the remedial systems would be operated.

After this is all done, the Green Parcel Program will choose a strategy for remediation based on outcomes from Phases I and II and dependent on the site's level of risk. Analysis of options must consider future site use, regulatory requirements, and financial implications.



GREEN PARCEL PROGRAM



The Green Parcel Program is implemented by Guam EPA using federal funds from U.S. EPA's Brownfields State Response Program. For more information about this process and what it is doing for Guam visit epa.guam.gov.

FIXING THE SITE FOR POSSIBLE REDEVELOPMENT

Sometimes low risk sites have future uses are banned and the contaminated area is "capped". Some higher risk areas can be treated using a variety of remedial strategies including chemical, and biological systems.

What this means that the contaminated area can be contained so that it won't further damage the environment, or it can be treated chemically or sometimes even plant and animal life.

When the contamination is fully contained or treated and the environmental danger has been eliminated, the site can then be revitalized and developed for use. This means more homes, businesses, and recreational spaces.

ENSURING COMMUNITY INVOLVEMENT

The DSMOA Program also helps ensure the community is aware of any Restoration Advisory Board meetings happening in Guam. This includes Navy and Air Force RAB meetings that discuss various activities at clean-up sites and ongoing monitoring projects. These meetings encourage public understanding of ongoing clean-up efforts.

*2012 milestones*

This program oversaw and promoted multiple meetings coordinated by DoD to inform the community about ongoing cleanup sites and plans. Many of these meetings were for Restoration Advisory Board groups or RAB meetings.

The DSMOA Program also reviewed multiple DoD installation restoration plans including Land Use Control Management Plans for sites 2, 5, 6, 8, 9, 12, 20 and 35. The Program also reviewed

Final Remedial Action Closure Reports for Site 55-A, 50, 47, 51, 53, 65, 79 and final work plans for Sites 75 and 77. A complete list of installation restoration sites and the status of each is available with the program.

This program also sponsored various trainings for Guam EPA including Hazardous Waste (HazWoper) training for staff and Emergency Planning and Community Right To Know Act (EPCRA) trainings.

The Green Parcel

Program also saw success this year through work to investigate sites and prepare them for possible economic development. This year, the program was working on sites including the former Navy Gym in Tiyan and surrounding area.

Challenges

The DSMOA program was challenged this year with ensuring all staff had the necessary training and worked to close out grant cycles correctly and efficiently. The workload for this program is large and recent merging of DoD

commands in Guam has presented new challenges.

2013 Goals

The DSMOA program will be working in 2013 to enhance the relationship with DoD by improving communication with federal counterparts.

The Green Parcel Program will continue work to assess properties that may have economic potential.

ADMINISTRATIVE SERVICES DIVISION



Helpful staff:
For The ASD group processes thousands of documents every year.

ASD continued to process grant reimbursements in a timely manner throughout 2012. This quick turnaround time helps U.S. EPA and Guam EPA budget as work is being completed. This quick turnaround also helps reduce the burden on the Government of Guam because the federal reimbursement are provided quickly.

Ensuring these reimbursements are processed within two weeks is a goal for this Division for 2013.



The Administrative Services Division (ASD) is responsible for

- Overseeing budgeting and accounting for the agency.
- Processing all money and grants including grant reimbursement paperwork within a two-week time frame.
- Processing travel authorizations
- Identifying cost containment opportunities

2012 Milestones

This year the ASD staff increased efficiency and reduced waste in a few ways.

ASD staff helped improve the budgeting and financial planning for the agency. This includes identifying wastes and curtailing spending. This also includes improving accounting practices.

In addition to improving services, also made sure that requests for Federal Reimbursements are made within a two-week time period.

The staff of this division also helped the Air Pollution Control Program obtain almost \$20,000 for Guam EPA through the State Clean Diesel Grant Program for retrofitting school buses.

Efficiency improved

Guam EPA's Administrative Services Division has taken the time to process the requests for reimbursement down to two weeks. This helps ensure cashflow remains consistent.

Guam EPA also received \$200,000 of funding for the NIEN Grant Exchange Network to upgrade the agency's computer and network infrastructure.

Finally, Guam EPA has begun aggressive recruiting new personnel during 2012. ASD assisted in the hiring of legal counsel for the Agency and processing other hires including the Public Information Officer position and other key positions.

ASD also helped establish a Memorandum of Understanding with Guam Community College to offer GIS, Photoshop and Microsoft classes for Guam EPA staff.

ASD continues to provide assistance to programs, keeping systems operational.

Challenges

One of the main challenges this program faces is the increasing complexity of information and documentation coming

into the agency. Ensuring proper filing and processing information is a key goal for this group.

2013 Goals

During the upcoming year, ASD will continue to search for ways to improve efficiency. This includes analyzing the budget and finding cost cutting measures that can be taken without decreases to public service.

The Division is also working on updating computer systems and software for the Agency to ensure data can be managed efficiently.

ASD is the lead for organizing training and will continue to find training opportunities with local educational institutions and other government agencies.

Finally, the Division hopes to help Programs establish the correct account type for the fund. Using the proper account will help Programs access money collected through fees and fines.



Customer Service Representative: Guam EPA is committed to high-quality customer service and that is further achieved by hiring Customer Service Representative Trina Borja this year.

Guam EPA's ASD brought a new Customer Service Representative on board during 2012. The addition of this position helps the agency promote a positive customer service experience when paying for permits, certifications or requesting information.

Guam EPA also improved customer service by taking comments through the official website and on the Facebook page for the agency. The public

is able to communicate with the agency in new ways.

The agency also plans to put suggestion boxes at both office locations and conduct surveys of individuals attending environmental education events to ensure we can meet the needs of Guam's ever-changing community.

This focus on customer service will continue to be a goal for the agency throughout the next year.

ENVIRONMENTAL MONITORING & ANALYTICAL SERVICES DIVISION



During 2012, two staff from the EMAS division completed the NOAA Component Course for Small Boat Standards and Procedures. This class gave the staff more information about how to handle boating safely and practice time on the water. Staff also completed the NOAA Operational Risk Management Workshop and the NOAA Motorboat Operator Certification Course. During the last course Bob Salas became a certified operator and Danzel Narcis is partially certified. These skills are used every week as the EMAS team launches the boat to collect samples from across the island.



Outstanding Employees: The EMAS Division was honored as Unit of the Year for the Government of Guam during 2012.

The Environmental Monitoring and Analytical Services (EMAS) division is responsible for

- Providing technical assistance in implementing Quality Management Plan (QMP)
- Conducting and administering the Drinking Water Laboratory Certification
- Conducting Surface Drinking and Ground water Analysis

- Implementing the Guam Water Quality Monitoring Strategy, and
- Provides Technical Support to other Agency Divisions and Programs.

2012 Milestones

This year EMAS achieved several major milestones including being recognized as the Government of Guam's Unit of the Year during the MagPro awards.

In addition to winning Unit of the Year, two staff of this division won

Employee of the Year. Rudolfo Paulino won Employee of the Year for all Chemists in the Government of Guam and Edwin "Bob" Salas won the top prize for biologists.

The team also worked to help Del Yanit become a Laboratory Certification Officer for Chemistry and Microbiology. This is critical to ensuring Guam EPA's lab can assist other labs in the region meet standards and qualifications needed for analyzing samples.

The team also drafted

a Total Maximum Daily Load (TMDL) for bacteria for 25 beaches in southern and central Guam. This TMDL will give the Agency and other organizations a baseline for determining if a beach is above or below the bacteria standard.

The EMAS team also started the process to fill one of the vacant positions on their staffing pattern. The work to hire a Chemist I was started and will hopefully increase the Division's ability to monitor and analyze Guam's fresh and marine water resources.

The EMAS division is comprised of two programs; monitoring and analytical services.

Challenges

In 2013, this Division is looking to possibly buy a new Flow Injection Analyzer. To achieve this, the Division will work with multiple other programs in the Agency to ensure the purchase can be made.

The Division has two

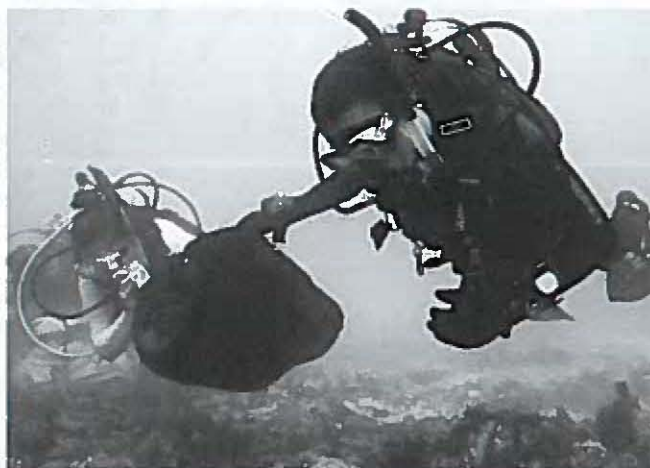
boats for gathering samples. They anticipate needing a new vehicle to tow the boats. This process will be started in 2013 with the actual purchase being slated for 2014.

Other challenges this group is facing include the need to upgrade the building and facilities that currently house the Agency's operations. The building conditions affect moral and general working conditions.

2013 Goals

During the upcoming year, EMAS will continue to keep a sharp eye on the status of national BEACH Funds. This funding source is critical to the continued success of the BEACH Watch program in Guam. The money from the federal BEACH Act provides necessary sampling and analyzing supplies.

The group will also be researching, and possibly proposing a fee schedule for the Laboratory Certification



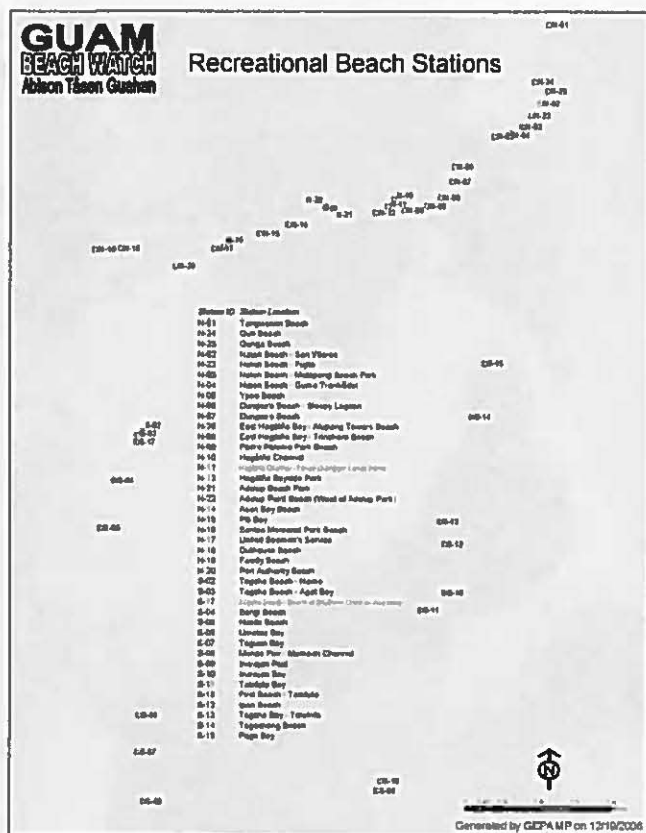
Underwater cleanup: Guam EPA and the Divers Association, UnderWater World and the University of Guam's Marine Lab. The cleanup resulted in more than 25 bags of trash and recyclables being hauled to the surface and disposed in the proper location.

Guam EPA's EMAS Division has coordinated several successful cleanups in 2012.

Every year, this group has participated in the International Coastal Cleanup. The group also responded after a local videographer filmed an underwater area filled with aluminum cans, plastic bottles and other types of debris near Agat Cemetery. Within one week, the group had coordinated a cleanup with partners including Micronesian

Divers Association, UnderWater World and the University of Guam's Marine Lab. The cleanup resulted in more than 25 bags of trash and recyclables being hauled to the surface and disposed in the proper location.

During 2013, the Division plans to continue various cleanup activities including a shallow dive cleanup near Merizo Pier and continued monitoring of the site near Agat Cemetery.



44 BEACHES SAMPLED WEEKLY

One of the key activities of the Monitoring Program is the collection of samples from rivers, beaches and other sites around Guam. Every week, the group collects samples from 44 recreational beaches to be analyzed for bacteria levels. The group also monitors rivers and streams by hiking to remote places of Guam to get samples. Finally, at times the biologists in the monitoring program respond when other programs, Agencies or groups ask for a specific set of samples to be taken. This year, biologists did extra sampling at Tanguisson beach and other requested sites. This sampling requires extensive knowledge of Guam's water resources and extensive physical abilities.

Program. In addition, another fee schedule may be proposed for Sand and Aggregate Importation.

The EMAS Division will also be requesting assistance for on-site training at the U.S. EPA Region 9 or Region 10 lab before the next training for Laboratory Certification Officers.

Monitoring Program

The Monitoring Program focuses on gathering data about Guam's marine and fresh water resources. During 2012 the group weekly monitored 44 beaches for bacteria levels in the waters. This work is outlined in the Guam Recreational Beach Monitoring Strategy and follows the grant conditions from the federal Beaches Environmental Assessment and Coastal Health Act (BEACH Act).

The group also completed a draft manual for diving and conducted more than 70 visual benthic assessments. The data gathered from these surveys is added to the Coastal Environmental Monitoring and Assessment Program (EMAP) data. The Monitoring Program also gathered 10 streams and plans to gather samples from nine more streams. This data

PARTNERING WITH OTHER NATURAL RESOURCE AGENCIES

The biologists of the Monitoring Program routinely work with other biologists from various natural resource agencies including the Guam Coastal Management Program, the Guam Department of Agriculture, and federal partners like the National Oceanic and Atmospheric Administration. This partnership has helped Guam have a knowledgeable and responsive set of biologists when situations need immediate attention. This includes grounding situations, beached whales and fish kill scenarios. The Monitoring Program will continue to make partnering with other organizations a key goal.



THE WORK OF A CHEMIST

Guam EPA's two chemists can be found in the laboratory almost every day. For example, the pair analyzes hundreds of samples of water for a specific bacteria at recreational beaches every year. They also test water samples for other programs request analysis, including taking samples from rivers and streams throughout the island.

Samples are analyzed with by measuring a predetermined volume and combining it with the appropriate media in special containers. The samples are then placed in an incubator overnight and allowed to grow. If the indicator bacteria are present, they will fluoresce when exposed to an ultraviolet light.

is critical to ensuring Guam's water quality meets standards. As needed, the monitoring program team also supports other Guam EPA programs when they require assistance in the collection of samples. This year the monitoring team assisted with the collection of samples after sewer line breaks in Agat and Piti.

Analytical Services Program

The Analytical Services Program worked with the Monitoring Program to analyze all samples brought into the laboratory. They also continued to maintain its certification as an U.S. EPA Certified Microbiology Laboratory.

In addition to the Monitoring Program, the laboratory also supports other Guam EPA programs with their analytical needs. For instance, they also analyze samples collected from nearly all ground water production wells on island for nitrates and chloride concentrations.

MULTIPLE LABS CERTIFIED

Guam EPA's laboratory team is responsible for ensuring labs in the area are meeting basic requirements to analyze different water samples. The lab is responsible for ensuring labs at the University of Guam, Guam Waterworks Authority, private laboratories and labs utilized by the U.S. Navy are operating within compliance. Audits are conducted of more than five labs for different parameters including microbiology and chemistry aspects.. This helps ensure samples that are analyzed in Guam can be used for scientific study and data. This speeds up the time it takes to test samples for things like bacteria, organic compounds and other potential substances that may impact the environment.

WATER DIVISION

The Water Division is tasked with enforcing multiple local and federal mandates, including

Guam Water Resources Conservation Act

- Groundwater Protection Zone and Wellhead Protection Program

Guam Water Pollution Control Act

- Guam Soil Erosion and Sediment Control
- Guam Water Quality Standards
- Guam Nonpoint Source Pollution Control Program
- Guam Feedlot Program

Guam Toilet Facilities and Sewage Disposal Act

- Individual Wastewater Management Program
- Guam Sewer Connection Program
- Water and Wastewater Mandatory Operators Certification Act

Guam Safe Drinking Water Act

- Safe Drinking Water Quality Standards
- Laboratory Certification Regulations
- Underground Injection Control Regulations
- Backflow Prevention/Cross-Connection Control Regulations

Guam Lead Ban Act

Federal Clean Water Act

- National Pollution Discharge Elimination System
- Spill Countermeasures and Control Program

Federal Safe Drinking Water Act

- Sole Source Aquifer Protection



The Water Division is responsible for many different aspects of environmental protection.

The Division includes three programs; the Water Pollution Control Program, the Water Resources Management Program and the Safe Drinking Water Program.

Each of these programs has specific objectives identified by local legislation and regulation. They are each also governed by work plans outlining objectives to meet standards of the

federal grant money that funds the majority of Guam EPA's work.

Water Pollution Control Program

The Water Pollution Control (WPC) Program is responsible for

- Implementing and enforcing the Water Pollution Control Act including reviewing all new or alterations for building permits.
- Enforcing Guam's Soil Erosion and Sedimentation Control regulations
- Regulating

Individual Wastewater systems, enforcing Guam's Water Quality Standards and sewer connection requirements

- This program implements the Feedlot Management rules for Guam and manages and jointly enforces the federal National Pollutant Discharge Elimination System (NPDES) permits with Federal EPA, manages the sewer construction federal

grant projects and the enforcement of the non-point source management program.

2012 milestones

During 2012, the WPC Program increased the issuance of permits in accordance with Guam's the rules and regulations. During 2012, the program staff of WPC reviewed and approved 165 clearing and grading permits and 179 site inspections. They also reviewed 599 building permits with 272 site inspections and 289 building occupancy

clearances. The staff also completed 235 inspections of disposal systems before they could be used.

Staff of the WPC also reviewed two feedlot facilities and processed six renewals of wastewater pumping permits. In addition to these permits, the staff also reviewed 21 Spill Prevention, Control, and Countermeasure (SPCC) plans and reviewed ten new applications for the federal National Pollutant Discharge Elimination System NPDES permit program.



Clearing and Grading: The Water Pollution Control Program regulates different construction and clearing projects like the one below.

By the numbers

During 2012, the Water Pollution Control Program reviewed and issued the following number of permits and certificates.

- 165 clearing and grading permits (179 site inspections)
- 599 building permits (272 site inspections)
- 389 building occupancy clearance (235 inspections)
- Reviewed 21 SPCC plans and 10 new or renewal NPDES permits
- Reviewed 23 applications for 401 water quality certificates

The program also conducted the following inspections and enforcement actions

- 290 grease trap inspections
- 42 Spill Prevention, Control, and Countermeasure (SPCC) compliance inspections. 11 of these inspections were in conjunction with U.S. EPA.
- 33 National Pollutant Discharge Elimination System (NPDES) compliance inspections, 23 of which were done with U.S. EPA
- Responded to 91 complaints
- Issued 44 NOVs
- Conducted a total of 420 compliance inspections at on-going construction sites
- Completed 35 compliance inspections at H-2 housing facilities

The Water Division continued to process a large amount of permits and conduct numerous inspections during 2012. Permits and following inspections are critical to ensuring environmental regulations are followed and various natural resources are protected from harm.

Grease Traps:

Grease traps are regulated by environmental law and inspected regularly by Guam EPA staff. If the traps are not cleaned regularly, they can cause major problems with the sewer and wastewater system. This grease trap, shown on the right, needs to be cleaned and repaired. When grease traps are not cleaned out regularly they can cause blockages on the facility's main line and lead to sewage backup and overflows. Guam EPA inspects an estimated 150 traps every year.



Although Guam EPA does not have primacy for this law, the program assists U.S. EPA with joint inspections and issuing Findings of Violation (FOV).

In addition to inspections, the WPC program developed an enforcement program to monitor existing industrial, commercial, residential, agricultural, government and federal facilities including on-going construction activities. This program focused on ensuring the construction or current facilities were in compliance with rules and regulations the program enforces.

During 2012, staff conducted 420 inspections for on-going construction projects. These were done on a random basis and help ensure sites are in compliance at all times. Staff also inspected

290 facilities to ensure they were properly cleaning their grease traps.

Beyond inspections, staff issued 44 Notice of Violations (NOVs) to entities found not in compliance with the law.

The program staff also participated in multiple training activities to learn more about erosion and sediment control. They provided technical assistance to public and federal agencies in relation to the rules and regulations they enforce. This includes working closely with the Department of Public Works (DPW), the Port Authority of Guam (PAG), Guam Waterworks Authority (GWA), Guam Power Authority (GPA), the Department of Defense (DoD) and several private developers and homeowners.

Challenges

The WPC program has lost many staff in recent years. This loss of personnel has made it difficult for the staff that remain to keep pace with the incoming work load. Thousands of documents need to be reviewed by this program and the handful of staff responsible have a large workload that can be a hindrance.

Another challenge for this program is ensuring vehicles and resources are available for inspections to occur in a timely manner. Inspections are key to ensuring projects are progressing within the confines of the permit requirements. Having resources to ensure those inspections happen is crucial.

2013 Goals

During 2013, the WPC program aims to maintain the high level of inspections conducted, continue to process permit applications in a complete but streamlined method, increase enforcement program implementation, and increase public awareness about the program objectives.

Water Resources Management Program

The Water Resources Management (WRM) Program is responsible for

- Implementing and enforcing Underground Injection Control Program
- Implementing and enforcing Wellhead Protection Program
- Implementing and enforcing Water Resources Development & Operating Regulations
- Groundwater Water Quality Monitoring Program
- Implementing and enforcing Groundwater Remediation Program
- Implementing and enforcing the U.S. EPA/ Guam EPA Memorandum of Understanding

2012 milestones

The Water Resources Management Program met significant milestones in 2012 including inspecting almost 500 Underground Injection Control (UIC) Wells and Systems.

This program collected \$5,000 in penalties from various Notices of Violation.

In total they issued 45 new well drilling permits including wells for dewatering, irrigation, monitoring and production wells. Staff in this program also continued to make progress on inspecting, monitoring and enforcing permitted pump

rates at more than 190 water production wells across the island. This work is buffeted by the continued inspection and overseeing of well-drilling activities and other well-related activities.

The WRM Program continued to work with the Pesticide Enforcement Program to ensure island golf courses are in compliance with local law.

The Program also gathered samples from various wells to test the water for chloride, nitrates.

Challenges

One of the main challenges facing this program is the large amount of permits filed to be processed, inspected and renewed. The increased rate and quantity of information generated by various technology and the regulated community can be, at times, overwhelming as it outpaces the Program's ability to evaluate, store

and file the information correctly.

The increase in construction activity and land development in Guam has created a huge need for this Program to process new well permits and closely monitor various production and UIC wells.



Partners: Guam EPA staff (r to l) Galo Baluran, Susan Marquez, Francis Mendiola, Benny Cruz and Romeo Zacarias pose with a federal partner.

By the numbers

During 2012, the Water Resources Management Program

- Issued 70 test boring permits for 917 individual bore holes
- Issued 39 new monitoring well drilling permits
- Completed 9 new Underground Injection Control (UIC) well permits
- Renewed 102 UIC operating permits
- Renewed 12 production well permits
- Reviewed 489 plans including 39 for well abandonment and 234 for wellhead plans.
- Conducted 776 inspections including 488 UIC inspections. Also conducted 196 well inspections and 38 follow-up production well inspections
- Investigated six complaints
- Sampled 138 production wells for chlorides and nitrates



ERODED LANDS, SEDIMENTATION AND SMOTHERED RESOURCES

The badland areas of Guam, shown above, are an ever increasing problem for the island. Open dirt areas can become mud and eventually wash away during heavy rain events. This erosion causes the loss of land and hurts the freshwater river systems in the southern area of Guam. This also impacts Guam's marine resources as corals and fish do not thrive in waters laden with nonpoint source pollution like sediment. Guam EPA's Water Quality Management Program led planting events in the Ugum watershed as it has been identified as a key area to stop sedimentation. The watershed is one of Guam's sources of drinking water.

This is compounded by the need to protect Guam's single-source aquifer and additional stresses placed on the resource.

2013 Goals

To help manage information, the program hopes to increase its capacity in Geographic Information Systems (GIS) technology. By using GIS, the program can quickly and more efficiently manage information about different regulated sites and wells.

The program will also continue to work closely with other staff within the Water Division to

ensure local and federal regulated entities, like Guam Waterworks Authority and the U.S. Navy, are operating within the compliance of local law.

Finally, the program will continue working to update outdated regulations, for example the regulations governing the Underground Injection Control Well regulations.

Water Quality Management Program

The Water Quality Management Program evolved out of the former Environmental Planning

and Review Program to meet changing environmental review needs.

The program focuses on protecting water quality through reviewing Environmental Impact Assessments and Statements, representing Guam EPA on the Application Review Committee (APC) and reviewing Clean Water Act Section 401 Water Quality Certification requests. This program also assists with creating the listing of Impaired Waters and the Watershed Planning Committee.

2012 milestones

Last year, the Water Quality Management Program was dedicated to completing reviews in a timely and complete manner. Staff reviewed 10 complex projects for the 401 Water Quality Certificate. In addition to these 401 reviews, the program reviewed numerous building plans, zoning change proposals as part of the Application Review Committee and reviewed plans for how they proposed to protect wetland area near the development site.

Staff in this program also successfully completed work to use American Recovery and Reinvestment Act (ARRA) funds to help update the overall plan for managing the Uguu Watershed. Through this work, staff in the Water Quality Management Program developed key partnerships with the Guam Department of Agriculture's Forestry Division, U.S. Department of Agriculture Natural Resource Conservation Service and stakeholders in the Uguu watershed area. The work included doing multiple intense hikes through the watershed to determine and confirm the presence of nonpoint source pollution and assess impacts on water quality.

After developing a restoration plan for the watershed, the group worked with volunteers to plan 1,500 trees in the area to reduce soil erosion and increase knowledge of the impacts of wildland fires started by arson.

Beyond this project, staff worked closely with the Bureau of Statistics and Plans, U.S. EPA, the National Oceanic and Atmospheric Administration (NOAA) and the Guam Contractors Association to offer an Erosion and Sediment Control Field Guide for contractors and Site Inspectors. A class about this Field Guide was also offered and 55 individuals took the Erosion and Sediment Control Competency Exam. *Please note: At the time of publication this Program has been placed directly under the Water Division.*

Challenges

The Program is still working on updating Erosion and Sediment Control and Stormwater Management Regulations. This is key in helping the Agency manage the potential impact stormwater from construction projects or final projects may have on Guam's freshwater and marine ecosystems. These regulations will help the Agency more completely oversee the management of runoff that affects the environment.

Staff in the Program continue to have challenges



Training: An attendee at the Erosion and Sediment Control workshop listens while reviewing the new Field Guide provided.

By the numbers

During 2012, the Water Quality Management Program

- Issued ten 401 Water Quality Certificates
- Reviewed eight Action on Subdivision Maps
- Reviewed 11 applications from the Department of Land Management for the Guam Land Use Commission
- Reviewed and inspected five wetland sites and maps for those sites and wetland delineation maps
- Completed the update of the Uguu Watershed Management Plan.
- Completed the final review and submitted comments regarding the 2010 Draft Erosion & Sediment Control and Stormwater Management Regulations
- Drafted a Total Maximum Daily Load (TMDL) for 25 impaired beaches
- Coordinated the planting of 1,500 tree saplings with a labor force of more than 100 volunteers.



accessing particular areas of the Ugum Watershed. Many areas of the watershed have no easy access points and require extensive amounts of hiking or use of a carabao to access. This is a problem for reaching sites to do more research or restoration work.

2013 Goals

In 2013, the Water Quality Management Program will continue to work on restoration work at the Ugum Watershed. The group will also continue working on the regulations for stormwater and runoff control in addition to continuous review of applications for zoning changes, 401 water quality certificates and other planning documents critical to protecting ecosystems in Guam. The Program will also continue educating Guam about watersheds and nonpoint source pollution.

Safe Drinking Water Program

The Safe Drinking Water Program (SDW) is responsible for

- Primary and Secondary Safe Drinking Water Regulations Implement and enforcing the mandatory operator's certification regulations.
- Implementing and enforcing the Guam Lead Ban

Act

- Monitor and follow-up GWA's compliance with the Stipulated Order (SO)
- Emergency response planning and water security
- Enforce the requirement of Safe Drinking Water Act to water retailers, water vending machine and similar establishments.

2012 milestones

During 2012, the SDW Program achieved major milestones including conducting three trainings for individuals taking the Water or Wastewater Operators Exam. This training helped more individuals pass the exam, which is required by law to work on the water system.

The Program also reviewed almost 400 plans from housing development, to military or commercial development projects.

Staff also collected 982 water samples and had them tested for lead and bacteria. This was done under the requirements of the Guam Lead Ban Act and the Safe Drinking Water Act.

Staff also inspected Guam Waterworks Authority (GWA) and U.S. Navy water systems in conjunction



Water management: The Safe Drinking Water Program enforces regulations that deal with processing and treating water as well as storing water in large reservoirs (above).

with U.S. EPA's Sanitary Survey Program. They also worked closely with staff of the Navy base to ensure compliance with the Ground Water Rules of Guam.

Challenges

One of the main challenges for the SDW program is the need for updating the rules and regulations that guide the program. This year, staff began the process of revising Guam's Safe Drinking Water Act, and the Guam Primary and Secondary Safe Drinking Water Regulations. An update of these key statutes and regulations will allow Guam EPA to adopt new federal rules for maintaining water systems.

The program is also in the process of revising the Guam Mandatory Certification of Operators regulations. This will bring our guidelines and standards for this program in line with other standards used across the nation.

Another challenge for the Program is ensuring enough resources are available to take proper samples and analyze information in a timely manner. This is especially critical given the importance of the Stipulated Order issued by the U.S. District Court.

2013 Goals

The Program plans to continue work on updating the law and regulations regarding Safe Drinking

By the numbers

During 2012, the Safe Drinking Water Program

- Offered three training courses for individuals taking the Water and Wastewater Operators Certification Exam.
- Administered the Exam for 300 individuals.
- Issued 195 Operator ID cards
- Reviewed 390 development plans including plans for commercial, private, local and federal activities.
- Collected 982 water samples to be tested for lead and bacteria.
- Evaluated 96 analytical test results for water samples for various indicators including organic compounds, Radionuclide and turbidity.

Water in Guam. The SDW group will also be working in collaboration with U.S. EPA Region 9 to ensure the timely submittal of data from various regulated entities. This includes getting reports about water quality, pumping rates and other indicators from those managing water systems.

Ensuring reports are submitted in a timely manner will help the program ensure standards are being maintained and the regulated community is in compliance.

AIR AND LAND DIVISION



Fire at recycling center

Guam EPA's Emergency Response (ER) number is the Agency's main line used by other government and private response teams. The ER team takes turns manning the line and will respond to situations including fires, spills, accident sites and many other situations 24 hours a day.

During 2012, the ER line was used during a truck crash near Adelup that involved a small amount of fuel spilled. The ER team was also activated when a fire broke out

at Global Recycling Center in Dededo. The team responded and provided information to the public quickly.

As part of emergency response, the Agency works closely with the Guam Fire Department, Guam Homeland Security and Office of Civil Defense and federal partners like the U.S. Coast Guard. These partnerships include actively training together and continuously working together to improve the efficiency of the response process.



Cleanup sites: Guam EPA continues to work on stopping illegal dumping across the island.

The Air and Land division is responsible for many different aspects of environmental protection.

The Division is comprised of four programs; the Hazardous Waste Management Program, the Solid Waste Management Program, the Pesticide Enforcement Program and the Air Pollution Control Program.

Each of these programs has specific objectives identified by local legislation and regulation. They are each also governed by work plans outlining objectives to meet standards of the federal grant money that funds the majority of Guam EPA's mission.

Pesticide Enforcement Program

The Pesticide Enforcement Program is responsible for

- Conducting pesticide importation surveillance
- Evaluating pesticide worker safety
- Conducting pesticide usage certification and

training programs

- Conducting licensing for pesticide preparation, use, field reports and maintaining enforcement of these licenses
- Coordinating with other Guam EPA programs to monitor the potential for pesticide contamination of groundwater
- Coordinate outreach and education about pesticide use, impact and prevention of misuse to the public, farmers and hospitality workers

During 2012, this program was honored with the MagPro Customer Service Award for their efforts to meet with customers and ensure the regulated community understands the importance of following pesticide law.

2012 milestones

During 2012, the Pesticide Enforcement Program significantly increased the amount collected through fees and exams. This work has helped fund the program and overall management of pesticides on island.

The program also began working with multiple government agencies on the "What's on my Food" project.

The program also completed a Request for Proposals (RFP) that will include training for restricted pesticide users in 2013. This RFP will help ease the load of the Core and Certification Exams Guam EPA staff have been offering since the University of Guam stopped offering the training.

During 2012, staff from the program also traveled to the CNMI to help train Customs and Quarantine officers in recognizing pesticides and ensuring containers are properly inspected.



Training for better enforcement. U.S. Forest Service staff are proctoring and checking out boxes with Guam Customs and Quarantine officials.

By the numbers

During 2012, the Pesticide Enforcement Program

- Issued 20 NOV/OCs
- All enforcement actions were resolved, 53% of which are closed out and the following amount in fees and revenue has been collected.
- Collected \$65,229.00 for Notice Of Arrivals
- Collected \$6,771.97 in trainings
- Collected \$5,915.00 in proctoring exams
- Assessed \$15,900.00 in penalties
- Collected \$14,500.00 for permits
- Brought in \$50,085.00 for ID Cards
- Collected \$1,200.00 in PCO Fees and \$2,458.26 in fumigation fees. Also collected \$500 in fees for dealers licenses

The total amount collected by the program during Fiscal 2012 was \$162,910.13. During Fiscal 2011, the program collected only \$68,000.



BASIC TRAINING FOR MORE THAN 3,000 HOTEL WORKERS

During 2012, the Pesticide Enforcement Program focused on training instructors who would train thousands of workers in hotels and other industries on island. These trainings focused on ensuring workers using pesticides every day, including products like bleach and other cleaners, know how to properly use the pesticide and how to respond if it is improperly applied. The Program started by hosting two sessions for instructors and then establishing a system for the instructors to offer the classes for their staff or for a fee. The success of the trainings continues through the help of local organizations like the Guam Hotel and Restaurant Association.

The program also completed permit forms and letter for dealers, fumigation companies and processed 7,867 Notice of Arrival forms.

This year also brought the final parts of the newly-updated Pesticide regulations into practice. This meant more than 3,000 housekeeping staff were now required to have Basic Training A if they used pesticide as part of their work. Through multiple train-the-trainer sessions and numerous BTA courses, more than 2,500 individuals have received their BTA cards during the course of 2012.

Challenges

Like other government programs, the Pesticide Program has a challenging level of work with a fairly small staff. There is also a lack of training availability for the Core course,

pool operators and restricted use pesticide applicators which can make enforcement of the regulations for these requirements difficult. Finally, the program has had some challenges dealing with DoD issues and hopes to improve relationships with DoD personnel in 2013.

2013 Goals

The Pesticide Enforcement Program will continue to work on Voluntary Compliance Agreements in 2013. This type of agreement brings a Notice of Violation to a close quickly and with less staff-time than a drawn-out appeal process. Bringing the regulated community into voluntary compliance also helps expedite the process and gets money to the agency quicker than a typical penalty. In addition, it ensures the regulated entity comes into compliance with the law and has a



RECYCLING RATES AND CELEBRATING AMERICA RECYCLES DAY

For the first time, Guam celebrated America Recycles Day on Nov. 15. The celebration included presentations at multiple schools with partners including local senators and nonprofit groups. The day was also marked by the release of Guam's recycling rates and information about how to recycle more at home and at the office.



America Recycles Day
Thursday, November 15, 2012

working relationship with the Program. This is key for future enforcement of Pesticide law in Guam.

The program will continue to work with stakeholders to ensure the public and the regulated community understand the requirements and importance of pesticide law in Guam. This includes expanding the "What's on my food" effort and ensuring the information is on Guam EPA's website, Facebook and other social media sites.

Solid Waste Management Program

The Solid Waste Management Program is responsible for

- Reviewing applications and



Processing Recycles and hardfill waste at a permitted facility under the District Environmental Permit.

By the numbers

During 2012, the Solid Waste Management Program

- Received 140 solid waste complaints
- Issued 42 written warnings and four Notice of Violation/Order of Compliances
- Processed 29 Solid Waste Management Facility Permits
- Reviewed 114 disposal plans
- Assisted in filing Guam EPA's civil lawsuit against Joseph Taitano for his illegal hardfill in Yigo

permits for any solid waste facility including transfer, storage, processing and municipal solid waste landfill facilities

- Conducting compliance and enforcement to ensure permitted solid waste facilities are in compliance with the law

SOLID WASTE MANAGEMENT

- Responding to solid waste complaints and investigate reports of illegal dumping
- Revising the Integrated Solid Waste Management Plan for Guam
- Overseeing recycling for the island.

During 2012 the Solid Waste Management Program was resupported with staff and resources after managing with only one staff member for recycling efforts during 2011. With a manager and two staff moving into the program it began

BOTTLE BILL WORK IN PROGRESS

Guam EPA was tasked with overseeing the implementation of the island's bottle bill. The bill envisions customers receiving a deposit for every bottle and can that are recycled. The Agency has staff working on reviewing how bottle bill programs have been established in other areas of the nation. The team also spent some time learning from counterparts in Hawaii about the accounting requirements to run a successful redemption program. During 2012, program staff made headway in establishing regulations to guide the Bottle Bill program into a reality. These regulations are necessary to ensure the program is fully supported by Guam Law.

the work that continues with permit review, complaint investigation and resolving Notices of Violation.

Manager Roland Gutierrez completed the Manager of Landfill Operations (MOLO) Certification program to ensure his knowledge of landfill operation is up to date. This is key as the Agency oversees the Municipal Solid Waste Landfill Facility in Inarajan.

The program also joined efforts during 2012 with U.S. EPA Region 9 staff Timone Hood to promote recycling in Guam and measure the amount of materials recycled on island. This included the first-ever launch of America Recycles Day on island.

The program worked with the new legal counsel for the Agency and began to review the NOV, Order of Compliance and other compliance efforts of the program.

Like other government programs, the workload of the Solid Waste Management Program is far larger than the manpower

available to complete the tasks. Despite the increase in staff during 2012, the program continues to struggle with staffing shortages and the constant need for technical training, specifically from the Solid Waste Authority of North America. In addition to needing staff, this program is challenged by a lack of vehicles to do inspections.

Finally, the program has identified difficulties dealing with outdated regulations, fee schedules and a permitting process that needs to be updated and streamlined.

During the upcoming year, the Solid Waste Management Program plans to focus on improving outreach and education with facilities, outreach to regulated community about permitting requirements. To assist in this effort, it's necessary to fill certain key staff positions to ensure permits are processed in a timely manner and there is enough manpower to meet with clients. They also plan to improve the litter citation program and

offer training to other Guam EPA staff about appropriately issuing citations.

The Solid Waste Program also aims to improve training and expand their inventory of tools and equipment. In line with this goal, the Agency has entered into a Memorandum of Understanding with the Guam Police Department to train all staff on issuing citations and interaction with clients in the field.

The program has also outlined 2013 as the starting point for reviewing and updating solid waste regulations and streamlining the permitting and Notice of Violation process.

The Hazardous Waste Management Program is responsible for

- Managing all activities pertaining to the Resource Conservation and Recovery Act C (RCRA) Subtitle C Hazardous Waste, RCRA Subtitle I Underground Storage Tanks and Emergency Response



130 UNDERGROUND STORAGE TANKS PERMITTED IN 2012

During 2012, the Hazardous Waste Management Program spent considerable time meeting with owners and operators who have USTs. Ensuring permits are issued in a timely manner and inspections are done regularly takes a great deal of time and coordination. To ensure these permits are being complied with, the staff of the Hazardous Waste Management Program can many times be found meeting with various companies around the island or updating their database of USTs. This program is also actively working on updating the regulations governing USTs. These regulations are important to ensure all USTs are properly operated and don't become LUST sites.

- Implementing and enforcing regulations about hazardous waste including transportation, disposal and data management
- Development, annual reporting, permitting/closure/corrective action, scope of regulatory management
- Implement and enforce Underground Storage Tank (UST) State Program and development, conduct inspections, enforcement and compliance and oversee chemical standard and financial responsibility
- Manage the Leaking Underground Storage Tanks (LUST) program

During 2012, program staff Michael O'Mallan won the MagPro Award for Behind the Scenes work. O'Mallan was recognized for his efforts to meet with customers and clients to ensure they understood the requirements and best operating procedures to ensure compliance with regulations.

2012 milestones

One of the major accomplishments of this program

165 UST OWNERS AND OPERATORS CERTIFIED

During 2012, Guam EPA retained Senior UST trainer Ben Thomas to conduct Guam Operator Class A/B Operator Training. The training was an overview of key UST requirements and how to react during an emergency situation involving USTs. The training was part of the Hazardous Waste Management Program's commitment to bring Guam into compliance with the Underground Storage of Regulated Substances Act and the federal Energy Policy Act of 2005. This training is a good example of Guam EPA's effort to help the regulated community have the correct information needed to follow permits and environmental law correctly.



this year was the offering of a workshop for owners and operators of USTs. Managing USTs and ensuring the regulated community is prepared to follow permit requirements is an ongoing task for this program. This includes processing applications, ensuring inspections are done in a timely manner and UST owners and operators are aware of the local and federal regulations regarding their equipment. During 2012, the Hazardous Waste Management Program issued 130 permits to UST owners and operators.

The program also completed drafting new regulations for USTs during 2012. In addition, the program worked with Guam Waterworks Authority to use \$138,000 in American Recovery and Reinvestment Act (ARRA) funding for conducting site assessments at UST sites owned by the utility. This grant helped This grant helped identify and permanently close USTs that posed potential harm to the environment.

The program also managed the process of issuing a Draft Resources Recovery Act Permit to Naval Facilities Engineering Command Marianas for a

Hazardous Waste Management Facility. The permit allows the Department of Defense facilities in Guam to package, repackage, transport and conduct pre-transport activities for hazardous waste.

Challenges

The Hazardous Waste Management Program, like other programs, has seen an increase in workload due to the continued construction and development in Guam. This is a challenge for a program working under tight deadlines and requirements to respond to complaints and emergency response situations. These required responses can, at times, make it challenging to meet deadlines required by the program's work plan.

As with many programs, staff in this program continue to work at maintaining good and accurate data as technology changes many options for data management.

2013 Goals

The Program will continue to work toward implementing Guam's regulation for Underground



Storage Tanks. The program also anticipates working with different entities to ensure they have the proper permits and continue to operate within the requirements of those permits. This includes the Hazardous Waste Storage and Management Permit issued to the U.S. Navy base.

The Program will also continue to improve the overall data management for projects like monitoring Underground Storage Tanks and Leaking Underground Storage Tank sites.

Air Pollution Control Program

The Air Pollution Control Program is responsible for

- Updating and maintaining the State Implementation Plan
- Conducting radon testing and indoor air assessment
- Testing motor vehicles for compliance in regards to emissions
- Overseeing the asbestos and lead abatement activities for Guam

- Overseeing the importation and use of illegal chlorofluorocarbons (CFC)
- Conduct support and coordination for radiation-related activities
- Issues air-related advisories (ex: vog or smog advisories)

2012 milestones

During 2012, the Air Pollution Control Program focused on continuing to implement Guam's Air Pollution Control laws and regulations and assisting with federal partners. During 2012, the Program worked with U.S. EPA regarding three pieces of heavy equipment that may have mislabeled engines. The engines may or may not have U.S. EPA Certificate of Conformity, which can be an issue because it doesn't meet standards required to be operated in the U.S.

This includes issuing standby generator permits and inspecting buses for the opacity of exhaust. The

During 2012, Air Pollution reviewed nine major source permits and nine minor facilities. The program



GRANT RECEIVED FOR RETROFITTING BUSES

Guam EPA's Air Pollution Control Program worked to obtain a roughly \$20,000 grant in 2012 to help retrofit school buses. This retrofit uses new technology to reduce the particulate matter in the exhaust emitted by the bus. Not only does this technology reduce air pollution in general, but it reduces pollution around the some of Guam's most vulnerable residents, school children. The Agency had to partner with the Guam Department of Public Works (DPW) to work on installing this technology is a percentage of the bus fleet. The grant focuses on retrofitting the newest buses so the pieces can be on the road for many years to come.

also continued their work to inspect and ensure compliance with various permitted sources around the island from power-generation facilities to dry cleaners and quarries.

Early in the year, the program completed a final approval letter to Mobil Oil Guam Inc. for the transshipment of high sulfur fuel through Guam. This was an issue as Guam recently switched to Ultra Low Sulfur Diesel (ULSD) and local law prevented high sulfur fuel from being off-loaded in Guam.

The program also continued working with U.S. EPA in regards to three pieces of imported heavy equipment that may have engines with incorrect labeled. The labels do not have the U.S. EPA Certificate of Conformity, which

is required for entry into the U.S. The program is also assisted by working with a local business and the mislabel of a generator engine that did not have the U.S. EPA Certificate of Conformity.

The program also conducted and completed a report regarding the Piti Power Plant Facility. Information from the report showed the plant was operating within all federal regulations and guidelines.

The program continues to work on their ongoing projects and mandates, including enforcing asbestos regulations. During 2012, the Air Program received 13 applications for asbestos control procedure plans. Most of the buildings are former military buildings. Another includes George Washington High School.

The Program also assisted the Department of Public Works in starting the process to establish radiation monitoring at municipal waste transfer stations.

The Air Pollution Control Program continues to work toward completing a large amount of work to support regulations and law regarding air pollution control. The Program is working through their mandates by prioritizing. For example, in regards to enforcing asbestos regulations, the Program will be prioritizing high-risk projects like schools and public buildings.

Another challenge for the program is getting funding to monitor ambient air and assist the Guam Fire Department with compliance



in the area of illegal burning. This is an ongoing issue for many villages and Guam EPA has done some outreach about the impact of illegal burning, but much more public outreach needs to be done.

The Program continues to work with Guam Power Authority, MEC, TEMES and the Navy in the Guam Maintenance Plan for the Piti Power Plant. This plan was given to U.S. EPA for review, and once it is approved, the Agency will be tasked with maintaining an inventory of attainment emissions sources within 50 km of the plant and reviewing entities within that area.

2013 Goals

The Program will continue to work on Voluntary Compliance to ensure vehicles coming into Guam have the correct labeling and certifications.

The Program will also diligently continue work to bring the Radon Lab back on board. This is a challenge as the Agency tries to find funding, training and equipment to offer this service to island residents. Finally the program will continue to inspect and monitor major and minor air pollution sources throughout Guam.

RADON LAB TO BE UPGRADED

Radon is a serious threat to individuals living in Guam. It is a colorless, odorless and tasteless radioactive gas that is the second-leading cause of lung cancer in the U.S. according to U.S. EPA. This gas contains Alpha particles that can be very destructive to lung tissue and cause cancer.

Many homes built without radon-resistant methods can have high levels of the radioactive gas. Homes that test high for the gas should install a radon mitigation (left) that typically includes a fan and pressurized system starting below the slab of the concrete house. Guam EPA has helped residents test their homes for free using canisters filled with carbon. This technology is being replaced and Guam EPA is working to bring new radon equipment to the island. The Agency is also partnering with Guam Community College and instructors to teach about radon and construction methods.



Permitting sources. The program will continue to work with the sources and ensure that all permittees have permits in place for the program.

By the numbers

During 2012, the Air Pollution Control Program

- Received 44 Title V minor source permit applications
- Issued 13 Title V minor source permit applications
- Inspected 13 facilities with Title V permits
- Had a total of 55 enforcement actions including 17 voluntary compliance agreements
- Handled 110 complaints
- Reviewed 30 building plans
- Reviewed 19 asbestos plans

FINANCIAL REPORTS

Unaudited

Revenue

Federal Grant Funds	FY11 Carryover	FY12 Revenues	FY12 Budget	Expense	Balance
Monitoring Initiative -	\$ 52,805.12		\$ 52,805.12	\$ 49,589.98	\$ 3,215.14
LUST Grant -	\$ 121,537.63		\$ 121,537.63	\$ 73,105.02	\$ 48,432.61
100% Consolidated -	\$ 1,744,841.06	\$ 2,668,915.00	\$ 4,413,756.06	\$ 2,418,501.17	\$ 1,995,254.89
Brownfields 128a -	\$ 777,196.76		\$ 777,196.76	\$ 406,020.46	\$ 371,176.30
LUST Program -	\$ 199,543.17		\$ 199,543.17	\$ 122,318.65	\$ 77,224.52
ARRA LUST -	\$ -		\$ -	\$ -	\$ -
ARRA 604b -	\$ 89,832.07		\$ 89,832.07	\$ 87,685.00	\$ 2,147.07
Navy IR -	\$ -	\$ 80,000.00	\$ 80,000.00	\$ 11,851.16	\$ 68,148.84
FUDS IR -	\$ -	\$ 6,000.00	\$ 6,000.00	\$ -	\$ 6,000.00
NAVY MMRP -	\$ -	\$ 15,000.00	\$ 15,000.00	\$ -	\$ 15,000.00
FUDS MAP -	\$ -	\$ 7,000.00	\$ 7,000.00	\$ -	\$ 7,000.00
Navy BRAC Legacy -	\$ -	\$ 10,000.00	\$ 10,000.00	\$ -	\$ 10,000.00
Fish & Wildlife -	\$ 927.00		\$ 927.00	\$ -	\$ 927.00
HMEP Training -		\$ 33,300.00	\$ 33,300.00	\$ 25,967.94	\$ 7,332.06
HMEP Planning -		\$ 36,388.00	\$ 36,388.00	\$ 27,156.58	\$ 9,231.42
Brownfields Assess Petrol -	\$ 122,733.83		\$ 122,733.83	\$ 104,969.21	\$ 17,764.62
Brownfields Assess Hazard -	\$ 144,955.96		\$ 144,955.96	\$ 114,230.51	\$ 30,725.45
				\$ -	\$ -
SUBTOTAL	\$ 3,254,372.60	\$ 2,856,603.00	\$ 6,110,975.60	\$ 3,441,395.68	\$ 2,669,579.92

Special Funds (local budget law)

Guam Environmental Trust Fund -		\$	375,356.00	↗	\$	375,356.00		296,841.33	\$	78,514.67		
Air Pollution Control Fund -		\$	192,018.00	↗	\$	192,018.00		158,431.17	\$	33,586.83		
Water Protection Fund -		\$	71,672.00	↗	\$	71,672.00		58,011.66	\$	13,660.34		
Water Research and Development Fund -		\$	76,975.00	↗	\$	76,975.00		60,081.81	\$	16,893.19		
Beach Monitoring Fund -	\$	38,930.27	\$	100,000.00	\$	138,930.27		81,051.48	\$	57,878.79		
Solid Waste Operations Fund -		\$	200,000.00	↗	\$	200,000.00		39,739.23	\$	160,260.77		
Public Law 31-31 UST-LUST FUND -		\$	-	↗	\$	-		-	\$	-		
Pesticides	\$	1,784.00	\$	136,731.00	\$	138,515.00		18,236.12	\$	120,278.88		
Safe Drinking Water Fund	\$	1,785.00			↗	1,785.00	↗	-	\$	1,785.00		
Solid Waste Fund	\$	13,920.55			↗	13,920.55		5,656.26	\$	8,264.29		
SUBTOTAL	↗	\$	42,499.27	↗	\$	1,152,752.00	↗	\$	718,049.06	↗	\$	491,122.76

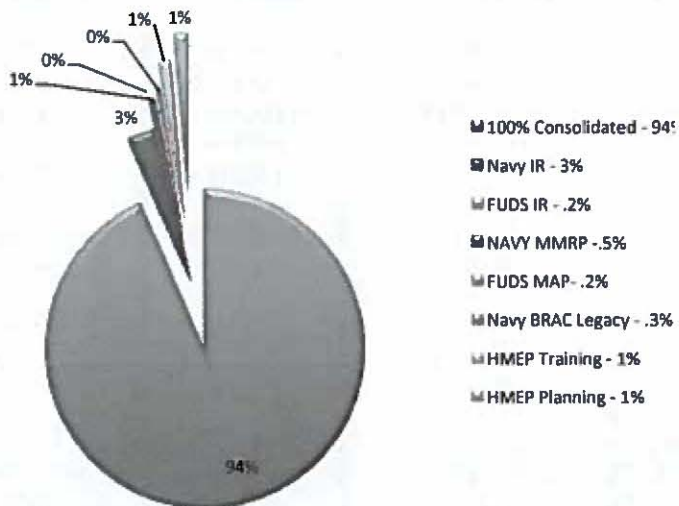
Revolving Funds (local)

Recycling Fund (MCOG) -	\$	772,958.50	↗	\$	772,958.50	\$	760,032.25	\$	12,926.25
Recycling Fund (Tire Disposal Cl	\$	61,132.00	↗	\$	61,132.00	\$	13,006.00	\$	48,126.00
Recycling Fund (Drum Disposal	\$	-	↗	\$	-	\$	-	\$	-
Recycling Fund (Guam EPA Adm	\$	369,792.39	↗	\$	369,792.39	\$	64,477.62	\$	305,314.77
								↗	\$
									-
SUBTOTAL	\$	1,203,882.89	↗	\$	-	\$	1,203,882.89	\$	837,515.87
								\$	366,367.02

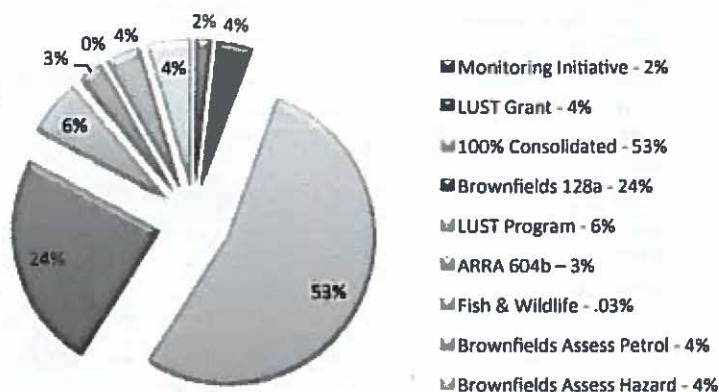
TOTALS	\$ 4,500,754.76	\$ 4,009,355.00	\$ 8,524,030.31	\$ 4,996,961	\$ 3,527,069.70
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Revenue Sources

Non-rollover revenues in Fiscal 2012



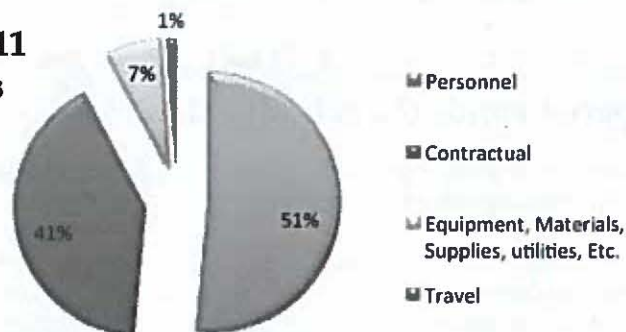
Rollover revenues in Fiscal 2012



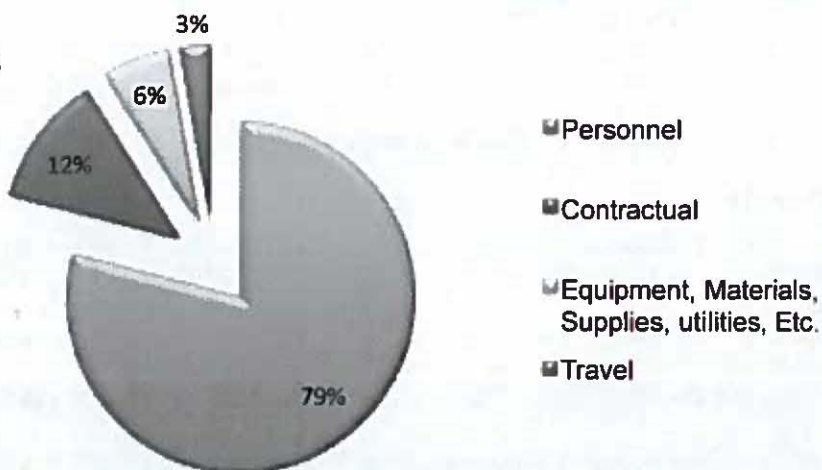
Expense breakdown

Guam EPA was able to control costs in equipment, materials and supplies during 2012. The Agency also spent less in personnel costs due to retirement and other losses in personnel.

Fiscal 2011 Expenses



Fiscal 2012 Expenses



2012 IN PICTURES









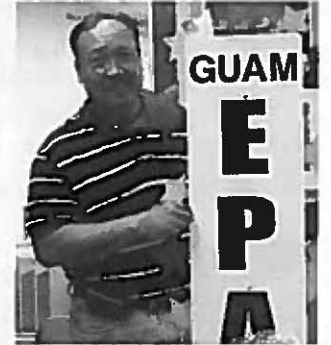














This report dedicated in memory to all current and former employees of Guam EPA, and most Specifically to Benny Cruz, Engineer Supervisor, and Peter Cruz, EHS Supervisor. Both gentlemen have been a part of the Guam EPA family for more than 25 years as valued mentors and friends.