

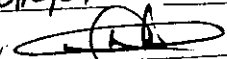
PHASE I ENVIRONMENTAL SITE ASSESSMENT

Lot 003 J 01  
I Naftan, Saipan

WE Quarry

DEPT. OF PUBLIC LANDS

Date: 10/12/07 Time: 3:16

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No: Doc: N/A

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By: \_\_\_\_\_

August 2007

Prepared for:

Department of Public Lands  
2<sup>nd</sup> Floor, Joeten Dandan Commercial Building  
Saipan, MP 96950

Prepared by:

**apec**

**allied pacific environmental consulting**

P.O. BOX 10001 PMB A6, SAIPAN, MP 96950-8901

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## EXECUTIVE SUMMARY

Allied Pacific Environmental Consulting (APEC) was retained by the CNMI Department of Public Lands (DPL) to conduct a Phase I Environmental Site Assessment (ESA) of Lot 003 J 01, I Naftan, Saipan, CNMI. This investigation was conducted in general accordance with the American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, Standard E 1527-05*. Work carried out during the ESA included reconnaissance of the subject and adjoining properties, interviews, and review of historical records and regulatory databases in an effort to identify evidence of environmental conditions that may impact the property.

The subject property is located near Flame Tree Road and Fiesta Street in I Naftan, and southwest of Dan Dan. The site is bordered on all sides by undeveloped property, including undeveloped residential lots to the northwest. Businesses and properties found in the general vicinity include Saipan International Airport to the southwest and Hawaiian Rock Quarry to the south.

The subject property was used by Western Equipment Inc. as a quarry, for mining and processing of limestone, and an asphalt batching plant. The only industrial facilities (e.g. for manufacturing or warehousing) found adjacent to or in the vicinity of the property were Saipan International Airport and Hawaiian Rock Quarry. The Hawaiian Rock Quarry is used for mining and processing of limestone. The Saipan International Airport (SIA) runway is in the vicinity of the subject property. However, the SIA aircraft maintenance facilities are located outside the 1-mile radius. The potential for contaminant migration from these properties is considered to be minor. There are no motor repair facilities, commercial printing facilities, dry cleaners, photo developing laboratories, or landfills on the properties immediately adjacent to the subject property.

APEC's site inspection and personnel interviews revealed the following:

The site consists mainly of uneven rocky terrain resulting from sporadic quarrying operations. The ground consists of various grades of coral rubble fill material. The site was previously used as a quarry and an asphalt batching plant. Stored and spilled asphaltic emulsion tar (AET), abandoned buildings, and metal structures are found on the site. Abandoned vehicles are also found on site. Recognized environmental conditions at the site are: four stockpiles of leaking 55-gallon AET drums and associated tar pools (160 drums total), two 5,000 gallon leaking AET tanks and associated tar pools, and three abandoned automobiles. Except for the spilled AET area, the fill did not appear to be contaminated upon inspection (no soil staining, etc).

Hazardous substances on site consist of batteries and auto-fluids from abandoned automobiles. Hazardous substances may also exist in trace amounts bound in the semi-solid matrix of the AET.

Petroleum products were observed as AET stored in leaking 55-gallon drums and leaking ASTs. No evidence of any other petroleum releases was discovered during site-walk activities. However, empty 3,000 gallon and 500 gallon diesel fuel ASTs were found on the property, indicating diesel fuel was used on the property.

Potential sources of subsurface and/or surface contamination identified on the subject site are the leaking AET storage containers located at the northeast portion of the site (Figure A5). Trace amounts of hazardous substances bound in the matrix of the AET have a negligible potential to leach into soil and surface water runoff. Over a greatly extended period of time (100+ years) trace amounts of hazardous substances at levels below the regulatory limits may find their way into groundwater migrating below the site.

There is no evidence of hazardous substances releases from adjoining properties and no evidence of contaminant migration from off-site sources.

**PHASE I ENVIRONMENTAL SITE ASSESSMENT**

**Lot 208 E 01, Division of Fish and Wildlife  
Lower Base, Saipan**

**April 2008**

Prepared for:

**Department of Public Lands  
2<sup>nd</sup> Floor  
Joeten Dandan Commercial Building  
Saipan, MP 96950**

Prepared by:

**apec**

**allied pacific environmental consulting**

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## 1.0 EXECUTIVE SUMMARY

Allied Pacific Environmental Consulting (APEC) was retained by the CNMI Department of Public Lands (DPL) to conduct a Phase I Environmental Site Assessment (ESA) of Lot 208 E 01. This investigation was conducted in general accordance with the American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, Standard E 1527-05*. Work carried out during the ESA included reconnaissance of the subject and adjoining properties, interviews, and review of historical records and regulatory databases in an effort to identify evidence of environmental conditions that may impact the property.

This subject property is located on Lower Base Drive in Lower Base, Saipan, CNMI. The site is bordered by undeveloped wetlands to the south and east, and Lower Base Drive to the north and east. The site is situated approximately 80 feet east of Tanapag Lagoon. Refer to site photos A1 – A8 in Appendix C.

The subject property has been leased to the Division of Fish and Wildlife (DFW), a division of CNMI Department of Land and Natural Resources, but is currently unoccupied. DFW leases and occupies Lot 094E01, which is located adjacent and northwest of the site. Businesses and properties adjacent to the subject property include DFW, the former CUC warehouse, old Sea Plane Dock (Seaman's Restaurant) and undeveloped beach property. Industrial facilities (e.g. for manufacturing or warehousing) found in the vicinity of the property include CUC's main power plant (0.4 miles to the north); Submarine Dock (Sea Ventures dry dock operations, 0.3 miles to the north); CUC Dock (0.5 miles to the north); the former CUC warehouse (0.25 mile to the north); Wushin Gas Corporation (0.25 miles northeast); the former Concord Garment Factory owned by Tan Holdings, Western Equipment, Samkor Metal Recycling (0.75 miles to the northeast); DPW Solid Waste Management transfer station, recycling center, and tipping floor (0.5 miles to the east); JG Sablan Rock Quarry is 0.25 miles to the east; Tropical Laundry; CPA's seaport facility and various shipping companies (0.5 miles to the south-southwest), and Saipan Stevedore (0.75 miles to the southwest). Several residential properties exist roughly 1 mile to the southeast. There are no commercial printing facilities, dry cleaners, photo developing laboratories, or landfills on the properties immediately adjacent to the subject property. See Figures A2, A3, B1, and B2.

APEC's December 6th and 11th, 2007 site inspection revealed that the subject site is currently undeveloped, vegetated, partially covered by wetlands and that no structures currently exist on the subject property.

There is potential for contaminant migration from some of the surrounding up-gradient properties to the east and northeast of the subject property via surface water runoff and sub-surface migration.

Phase I Assessment activities performed on Lot 208 E revealed no recognized environmental conditions associated with the subject property.

### Conclusions

APEC has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527 of Lot 208 E 01, Division of Fish and Wildlife, Lower Base, Saipan, CNMI, the subject property. This assessment has revealed no evidence of recognized environmental conditions associated with the subject property.

No further investigation of the environmental conditions at the subject property is warranted.

## 2.0 INTRODUCTION

Lot # 250 T 01, Western Equipment Quarry (Former)  
Tinian, Commonwealth of the Northern  
Mariana Islands

Phase I  
Environmental Site Assessment ✓

September 2007

Prepared for

Department of Public Lands  
P.O. Box 500380  
Saipan, MP 96950

Prepared by

**DUEÑAS &  
ASSOCIATES**  
Inc.

238 East Marine Corps Drive, Suite 201  
Hagatña, Guam 96910

DEPT. OF PUBLIC LANDS

Date: 10/12/07 Time: 10:40

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No: Doc: N/A

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By: \_\_\_\_\_

## 1.0 EXECUTIVE SUMMARY

The purpose of this Phase I Environmental Site Assessment (ESA) is to investigate and evaluate recognized environmental conditions on Lot 250 T 01 in Magpo Tinian and its surrounding properties with respect to petroleum products and the range of contaminants subject to regulation under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980. Environmental Professional's conclusions and opinions are summarized below:

1. The subject site was used by Western Equipment as a quarry between 1986 and 1998. The subject site was dormant and used as a solid waste dump site during the 1970's and possible early 1980's.
2. Petroleum products were generated on-site as part of site activities and are still present on the subject site. These petroleum products have breached their containment barriers and free petroleum product was identified on the ground at the subject site. This is considered a recognized environmental concern.
3. Three damaged pole mounted transformers from a felled utility pole were identified within the subject site. One of the three was label as PCB-free; however, the other two transformers did not have any labels that indicated the units were PCB free. The area where the transformers were located could potentially contain PCBs within the soils. This is considered a recognized environmental concern.
4. Domestic solid waste and metallic debris were identified within the subject site. Discarded pipes, metallic debris, remnants of a vehicle chassis, cement mixer truck, metallic cylinder and car parts were identified in this area.

Given the past use of the subject site and present oil storage the following opinions are offered:

Sampling: Surface and subsurface sampling of the soils surrounding the AST and drum containment structure are recommended. This localized area drains toward a natural impoundment northeast of these berms. This impoundment must also be sampled. It is recommended that these areas are sampled for oils and metals.

Sampling: Surface soil samples by the two transformers which were not labeled PCB free are recommended. The surface samples should be 6 inches to 1 ft deep and be analyzed for PCB's

Incidental petroleum product spills were identified beneath or in the vicinity of the abandoned excavator and dozer on-site. These spill locations should be properly excavated, containerized and disposed.

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Date: 2/11/08 Time: 12:19

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By: \_\_\_\_\_

**PHASE I ENVIRONMENTAL SITE ASSESSMENT**

**Isley Field  
CPA Airport Property  
LOT 028 K 09  
I Fadang (Airport), Saipan**

**February 2008**

Prepared for:

**Department of Public Lands  
2<sup>nd</sup> Floor  
Joeten Dandan Commercial Building  
Saipan, MP 96950**

Prepared by:

**apecc**

**allied pacific environmental consulting**

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## 1.0 EXECUTIVE SUMMARY

Allied Pacific Environmental Consulting (APEC) was retained by the CNMI Department of Public Lands (DPL) to conduct a Phase I Environmental Site Assessment (ESA) of Isley Field, a portion of Lot 028 K 09, I Fadang, Saipan, CNMI. This investigation was conducted in general accordance with the American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, Standard E 1527-05*. Work carried out during the ESA included reconnaissance of the subject and adjoining properties, interviews, and review of historical records and regulatory databases in an effort to identify evidence of environmental conditions that may impact the property.

The subject property is a 2,720 sq. meter portion of Lot 028 K 09, known as Isley Field. It is located on Continental Drive in I Fadang (Airport), near the Saipan International Airport, on the southern part of the island of Saipan. The site is bordered on all sides by the remainder of Lot 028 K 09, the Commonwealth Ports Authority (CPA) Property. The areas surrounding the subject site are primarily used for airport related industrial use, including the Mobil Aviation Fuel Depot, Continental Cargo, CTSI Logistics, FedEx, Freedom Air Airport concourse, the Saipan International Airport concourse, the Airport Tower, and the CPA Incinerator. The Saipan International Airport runways are located 720 meters to the south. A stockpile area used to store excavation material from the nearly completed CUC Reservoir is found approximately 30 meters to the west of the site. The CPA Buried Drums site (a potential brownfields site, with buried drums of unknown content) lies directly below the stockpile. The nearest residential area is roughly 500 meters to the east, in Dan Dan.

Historical aerial photos indicate that the site was used for airplane storage in the 1940s. No use of the site between the 1950s and 1980s was identified. The site is currently owned by the Commonwealth Ports Authority, and has been used, under verbal agreement, since approximately 1992 by the Commonwealth Utilities Corporation for a variety of purposes. It was used in the 1990s as an emergency power generation station. After power generation activities were discontinued at the site, it was used as a storage facility for drums of new and used oils, used transformers, equipment, and drums of petroleum contaminated fill material.

APEC's site inspection, research, and interviews revealed the following:

The subject property is rectangular (48 by 55 meters), asphaltic concrete paved and is enclosed within a gated chain link fence. The site is currently used by the Commonwealth Utilities Corporation to store drums of new and used oil utilized at the CUC Powerplants 1&2, a derelict generator, two large ASTs (one bermed, one not), open drums containing petroleum contaminated fill material, and several PCB-containing transformers and drums that appear to be leaking. Site inspections conducted (independent of this Phase I) in 2005 and 2006 recorded a very large number (over 200) of transformers stored on site. The majority were non-PCB containing, but some contained PCBs and others were unlabelled. The number of transformers stored on site has been greatly reduced since then. A large surface stain in the northeastern part of the site is clearly visible in the 2005 satellite image.

Surface stains, and staining around the site drain, located at the northeast corner of the site, indicate surface and potential subsurface contamination by petroleum products and PCB-containing oils. No other hazardous substances were observed on site. Recognized environmental conditions at the site include:

- 1) Petroleum product staining and residue on the asphaltic pavement in several areas of the site including near: a derelict generator housed in a 40-foot container located along the western edge of the site; a stockpile of approximately 140 tarp-covered 55-gallon drums believed to contain petroleum contaminated limestone gravel (which appeared to be previously used to



Tract #44-14, CUC Site  
Tinian, Commonwealth of the Northern  
Mariana Islands

Phase I  
Environmental Site Assessment ✓

September 2007

Prepared for

Department of Public Lands  
P.O. Box 500380  
Saipan, MP 96950

Prepared by

**DUEÑAS &  
ASSOCIATES**  
Inc.

238 East Marine Corps Drive, Suite 201  
Hagatña, Guam 96910

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## 1.0 EXECUTIVE SUMMARY

The purpose of this Phase I Environmental Site Assessment (ESA) is to investigate and evaluate recognized environmental conditions on Tract #44-14 in San Jose, Tinian and its surrounding properties with respect to petroleum products and the range of contaminants subject to regulation under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980. Environmental Professional's conclusions and opinions are summarized below:

1. Past activities within the subject site, specifically petroleum storage, were conducted without proper spill prevention measures or containment. These storage practices are believed to have occurred from the 1960's through 1999. This is considered a recognized environmental concern.
2. Fuel oil supply and transfer lines were identified without secondary containment or corrosion countermeasures.

Given the past use of the subject site and present oil storage the following opinions are offered:

Proper removal and disposal of the existing nine storage vessels and fuel oil supply and lines. Prior to the vessel removal any liquids within the vessels must be properly removed and disposed.

Sampling: Surface and subsurface soil samples must be collect and analyzed for total petroleum hydrocarbons and heavy oils. At a minimum, these samples should be taken in the area surrounding each storage vessel, along the fuel oil supply lines and the southern corner of the subject site.

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Date: 9/13/07 Time: 9:14 am

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By: ERMU

Lot #114 D 01, Clean Earth  
Saipan, Commonwealth of the Northern  
Mariana Islands

Phase I  
Environmental Site Assessment ✓

September 2007

**DRAFT**

Prepared for

Department of Public Lands  
P.O. Box 500380  
Saipan, MP 96950

Prepared by

**DUEÑAS &  
ASSOCIATES**  
Inc.

238 East Marine Corps Drive, Suite 201  
Hagatña, Guam 96910

## 1.0 EXECUTIVE SUMMARY

The purpose of this Phase I Environmental Site Assessment (ESA) is to investigate and evaluate recognized environmental conditions on Lot #114 D 01 in Puerto Rico, Saipan and its surrounding properties with respect to petroleum products and the range of contaminants subject to regulation under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980. Conclusions and recommendations are summarized below:

1. The subject site appeared to be undeveloped and unused from 1970 to 1987 based on aerial photograph review. Activity was visible on the subject site circa 1996. It appears that the site was used as a staging area for used containers and drums. Based on lease information provided by the user the subject lot was leased to Solid Builders in 1994.
2. Based on regulatory information reviewed and site reconnaissance activities, the improper storage of used oil has continuously occurred on the subject site from at least 2000 to present. A court order and numerous violation notices from regulatory authorities have been issued to the tenants/operators of the subject site.
3. The subject site is presently observed to be pervious with respect to surface/storm water flows. Storm water generated on the subject site either percolates on site or flows northwestward toward two 24" culverts and ultimately to the ocean. An earthen berm was identified along the subject sites western boundary. The construction of this berm was the result of a notice issued by the US Coast Guard relating to the release of petroleum products. The notices warned of discharge to the ocean via this culvert.
4. Improper storage of used oil was identified on the subject site. This used oil was observed leaking onto the ground by DEQ and by the environmental professionals
5. Solid waste was observed throughout the subject site. The improper disposal of used drums, wood and metallic debris was identified along the southeastern boundary of the subject site.
6. Soil staining was identified at the center of the subject site

Given the past use of the subject site, past compliance violations and present oil storage the following is recommended:

Proper removal and disposal of the used oil stored within the 40ft containment berms.

Sampling: Surface and subsurface soil samples must be collected and analyzed for total petroleum hydro carbons and heavy metals these samples should be taken at a minimum in the area immediately surrounding and below each 40ft shipping container (see Figure 2).

September 25, 2006

**REQUEST FOR QUALIFICATION**  
**BROWNFIELDS PETROLEUM ASSESSMENT GRANT**

RFQ06-002

Prepared for:

**COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS**  
**OFFICE OF THE GOVERNOR**

**DEPARTMENT OF PUBLIC LANDS**

Prepared by:

**DUNN &**  
**ASSOCIATES**  
INC.



## I. EXECUTIVE SUMMARY

Duenas & Associates, Inc. (D&A) in association with EA Engineering, Science, and Technology, Inc. (EA) welcomes this opportunity to present our qualifications to provide Phase I and Phase II Environmental Site Assessment (ESA) services for the Department of Public Lands (DPL), Commonwealth of the Northern Mariana Islands (CNMI). With over 31 years of experience conducting Phase I and Phase II ESA projects on Guam and nationwide and conducting Brownfields and redevelopment projects nationwide, the Team will provide technically sound, cost-effective, and timely services to this important project.

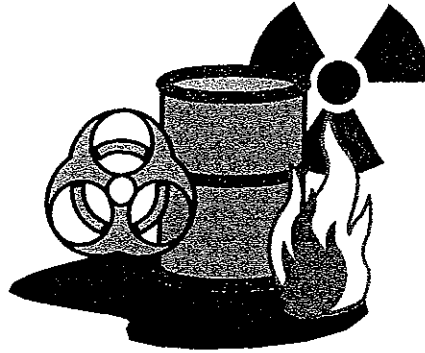
On 1 November 2005, EPA published the 40 Code of Federal Regulations (CFR) Part 312, *Standards and Practices for All Appropriate Inquiries, Final Rule*, in the Federal Register. The Final Rule is effective on 1 November 2006. Under the Comprehensive Environmental Response, Compensation, and Liability Act, EPA's *All Appropriate Inquiries* rule takes precedence over the American Society for Testing and Materials (ASTM) standard practice. Consequently, the qualifications stated herein take into account both the increased legal responsibilities and substantial liability exposures associated with performing Phase I ESA projects under the published *All Appropriate Inquiries, Final Rule*. EA Engineering has developed a policy as part of the Corporate Quality Assurance Plan to standardize the completion of Phase I ESAs (Attachment A).

The D&A/EA Team has organized this Executive Summary as follows:

- *Brownfields, Phase I ESA and Phase II Experience*—Demonstrates our understanding of the project requirements in the form of recently completed projects, ASTM training on the recently revised ASTM Practice E 1527-05 and the "All Appropriate Inquiry" Standard, and Corporate Policy on the performance of ESAs.
- *Work Management Team/Firm*—Provides an overview of the team and specific examples

*The D&A/EA Project Team –  
National Reputation; Local Experience*

- ◆ Brownfields, Phase I and Phase II ESA experience and rapport with state and municipal clients and other stakeholders
  - Environmental Professional with over 10 years of Phase I and Phase II experience on Guam.
  - Experienced Senior Project Personnel who previously served as a Principal Engineer in managing EPA Brownfield Grant Programs, and major site investigation and remediation projects
  - Direct experience working with integrating site restoration with public reuse
  - Direct experience managing similar projects under EPA's Brownfield Assessment Program in the continental US
- ◆ Local Project Management and Technical Resource Team with proven Experience
  - D&A Saipan provides extensive knowledge of local conditions and history, especially with regards to public land use and development
  - Local resources from D&A Saipan and Guam offices and EA Guam office
  - Extensive Brownfields inventorying, site surveying, site investigation, and remedy design experience at over 100 sites throughout the continental US and Saipan,
  - Successful experience investigating and developing closure strategies for former military and industrial sites
  - As a major federal contractor, EA has audited systems and processes in-place and routinely exceeds small business requirements
  - D&A pioneered the use of Geographic Information Systems (GIS) in the Pacific Rim since 1987 and is the acknowledged premier consultant in the Western Pacific in this highly specialized and technical field of database/graphics manipulation.
- ◆ Past Experience with Local Municipalities Developing Cost-Effective Approaches
  - Full familiarity with EPA Brownfields Program, EPA grant programs, state Voluntary Cleanup Programs, and hazardous waste programs
  - Emphasis on a cost-effective approach utilizing site reuse plans to support the ultimate closure strategies



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Date: 12/13/07 Time: 11:30 am

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By: \_\_\_\_\_

**PHASE I**  
**ENVIRONMENTAL SITE ASSESSMENT**

**Marpi Village Homestead Site  
Saipan, CNMI**

**UPDATE  
December 14, 2007**

**PREPARED FOR**  
**Department of Public Lands  
Commonwealth of the Northern Mariana Islands**

**PREPARED BY**  
**AMPRO LLC**  
**SPS 741, Box 10006**  
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**Phone/Fax (670) 234-2882**  
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and



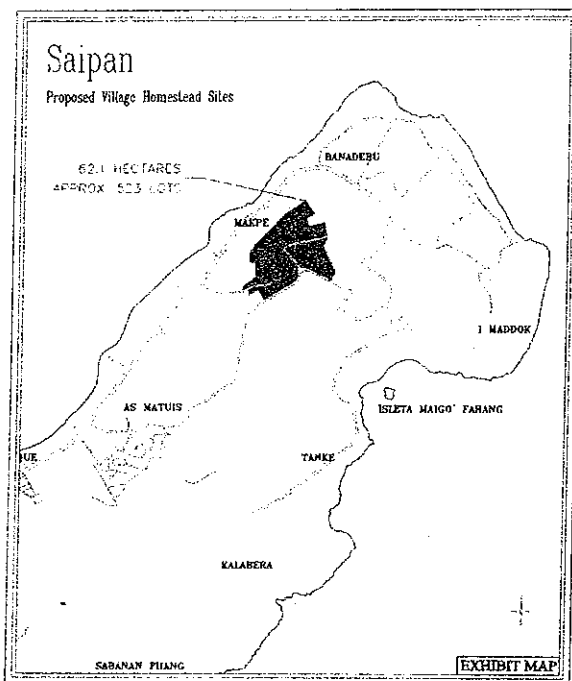
**WINZLER & KELLY**  
CONSULTING ENGINEERS  
PMB 596, Box 10000  
Saipan, MP 96950

## 1. SUMMARY

This Phase I Environmental Site Assessment was performed in accordance with the standard practice for Phase I Environmental Site Assessments promulgated by the American Society for Testing and Materials (ASTM E-1527-05). The purpose of this assessment was to evaluate the property for the presence of recognized environmental conditions.

AMPRO initiated a Phase I Environmental Site Assessment (ESA) on the proposed Marpi Village Homestead Sites area on Saipan, CNMI at the request of the property owner, the CNMI Department of Public Lands.

The Marpi Point Homestead Lands area encompasses an approximately 62 Hectare parcel adjacent to the main access road to Suicide Cliff on the north end of Saipan in the Commonwealth of the Northern Mariana Islands - CNMI.



### Marpi Homestead Site

This area has long been designated for Village Homestead Sites under an ongoing public lands program on Saipan, but has been unusable due to extensive amounts of Unexploded Ordnance (UXO) present at the site. This ESA report was initiated to document the presence of this hazardous waste and other recognized environmental conditions at the site.



September 25, 2006

**REQUEST FOR QUALIFICATION**  
**BROWNFIELDS HAZARDOUS MATERIAL ASSESSMENT GRANT**

RFQ06-003

Prepared for:

**COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS**  
**OFFICE OF THE GOVERNOR**

**DEPARTMENT OF PUBLIC LANDS**

Prepared by:

**DUEÑAS &**  
**ASSOCIATES**  
Inc.



## 1. EXECUTIVE SUMMARY

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The D&A/EA Team has organized this Executive Summary as follows:

- *Brownfields, Phase I ESA and Phase II Experience*—Demonstrates our understanding of the project requirements in the form of recently completed projects, ASTM training on the recently revised ASTM Practice E 1527-05 and the "All Appropriate Inquiry" Standard, and Corporate Policy on the performance of ESAs.
- *Work Management Team/Firm*—Provides an overview of the team and specific examples

*The D&A/EA Project Team –  
National Reputation; Local Experience*

- ◆ **Brownfields, Phase I and Phase II ESA experience and rapport with state and municipal clients and other stakeholders**
  - Environmental Professional with over 10 years of Phase I and Phase II experience on Guam.
  - Experienced Senior Project Personnel who previously served as a Principal Engineer in managing EPA Brownfield Grant Programs, and major site investigation and remediation projects
  - Direct experience working with integrating site restoration with public reuse
  - Direct experience managing similar projects under EPA's Brownfield Assessment Program in the continental US
- ◆ **Local Project Management and Technical Resource Team with proven Experience**
  - D&A Saipan provides extensive knowledge of local conditions and history, especially with regards to public land use and development
  - Local resources from D&A Saipan and Guam offices and EA Guam office
  - Extensive Brownfields inventorying, site surveying, site investigation, and remedy design experience at over 100 sites throughout the continental US and Saipan,
  - Successful experience investigating and developing closure strategies for former military and industrial sites
  - As a major federal contractor, EA has audited systems and processes in-place and routinely exceeds small business requirements
  - D&A pioneered the use of Geographic Information Systems (GIS) in the Pacific Rim since 1987 and is the acknowledged premier consultant in the Western Pacific in this highly specialized and technical field of database/graphics manipulation.
- ◆ **Past Experience with Local Municipalities Developing Cost-Effective Approaches**
  - Full familiarity with EPA Brownfields Program, EPA grant programs, state Voluntary Cleanup Programs, and hazardous waste programs
  - Emphasis on a cost-effective approach utilizing site reuse plans to support the ultimate closure strategies