



**Phase I Environmental Site Assessment Report
Island Girl Power
Dededo, Guam**

Prepared for

Guam Environmental Protection Agency
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October 2018
EA Project No. 15672.01

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LIST OF ACRONYMS

AIRS	Aerometric Information Retrieval System
AST	Aboveground storage tank
ASTM	American Society for Testing and Materials
BRS	Biennial Reporting System
BSP	Bureau of Statistics and Plans
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	CERCLA Information System
CDL	Clandestine Drug Labs
CONSENT	Superfund (CERCLA) Consent Decrees
CORRACTS	RCRA Information System-Corrective Action Sites
DERP	Defense Environmental Restoration Project
DLM	Department of Land Management
DOD	Department of Defense
DOT OPS	Department of Transportation, Office of Pipeline Safety
DPW	Department of Public Works
EA	EA Engineering, Science, and Technology, Inc., PBC
EDR	Environmental Data Resources, Inc.
EPA	Environmental Protection Agency
ERNS	Emergency Response Notification
ESA	Environmental Site Assessment
FEMA	Federal Emergency Management Agency
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act/TSCA
FINDS	Facility Index System
ft	feet
FTTS	FIFRA/TSCA Tracking System
FOIA	Freedom of Information Act
FUDS	Formerly Used Defense Sites
GHS	Guam Homeland Security
GHURA	Guam Housing & Urban Renewal Authority
GPD	Guam Police Department
GWA	Guam Water Works Authority
IGP	Island Girl Power
LUCIS	Land Use Control Information System
LUST	Leaking underground storage tank

LIST OF ACRONYMS (CONTINUED)

MARC	Micronesian Area Research Center
MCOG	Mayors Council of Guam
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
NFRAP	No Further Remedial Action Planned (Delisted CERCLA Site)
NPDES	National Pollutant Discharge Emissions System
NPL	National Priorities ListFUDS
OCPCASES	Oil Control Program Cases
ODI	Open Dump Inventory
OEW	Ordnance and explosives waste
PADS	Polychlorinated Biphenyl Activity Database
PAH	Polycyclic aromatic hydrocarbons
PCB	Polychlorinated biphenyl
RAATS	RCRA Administrative Action Tracking System
RADINFO	Radiation Information
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
ROD	Record of Decision
SHWS	State Hazardous Waste Sites
SSTS	Section Seven Tracking System
SWF/LF	Solid Waste Facilities/Landfills
SWRCY	State Recycling Directory
TPH	Total petroleum hydrocarbons
TRIS	Toxic Release Inventory System
TSCA	Toxic Substances Control Act
TSD	Treatment, Storage and/or Disposal
UMTRA	Uranium Mill Tailings Site
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USGS	U.S. Geological Survey
UST	Underground storage tank

1 EXECUTIVE SUMMARY

EA Engineering, Science, and Technology, Inc. (EA) has performed a Phase I Environmental Site Assessment (ESA) on the “subject site” which is currently occupied by IGP, Guma San Jose housing, and Knights of Columbus.

The subject site is a consolidation of Lots Nos. 10114 and 10058-R1 which make up Lot No. 10114-NEW-3-R2. Prior to the consolidation of both lots in November of 1994, the first record of Lot No. 10114 dates back to April 24, 1967 owned by the Secretary of the Interior under the Organic Act of Guam. During this time, the Lot was used for housing teachers. The first record of Lot No. 10058-R1 dates back to February 26, 1952 where the site was also used for housing. Housing during this time was mainly for the homeless people. Houses were made out of tents at the time until the late 1960’s when they started building them out of concrete. Lot No. 10114 was first owned by the Island Court of Guam while Lot No. 10058-R1. Following the consolidation period of both lots, a re-subdivision survey was made by the Department of Land Management (DLM). The subject site was transferred to Guam Housing & Urban Renewal Authority (GHURA) in March 2011.

Today, the subject site is still used to provide families with shelter. Additionally, a non-profit organization, Island Girl Power (IGP), has occupied the whole east portion of the subject site for their organization. Four housing units located east of the subject site are occupied by IGP. The other half of the subject site Guma San Jose, a catholic social service that runs a homeless shelter. Housing units west of the subject site that are currently being used by homeless families provided Guam San Jose. Lastly, on the northwest boundary of the subject site, a single building is occupied by Knights of Columbus, a non-profit organization that provide catholic social services for the local community. Illegal dumping has reportedly occurred by area residents as is evidenced by large amounts of household waste on the subject site.

This Phase I ESA identified the following recognized environmental conditions (RECs) at the subject site:

- Aside from household waste found throughout the subject site, there are no other REC’s found.

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2 INTRODUCTION

2.1 LOCATION AND LEGAL DESCRIPTION

The subject site is located off of Ysengsong road north of Maria Ulloa Elementary School in the residential area of Dededo Guam. The subject site is a rectangular-shaped parcel approximately 3.68 acres. The subject site is currently developed and is currently occupied by two non-profit organizations, Island Girl Power and San Jose Guma Housing and a church ministry, Knights of Columbus. The boundaries of the subject site, as depicted on the current map, are shown on Figure 1 (Appendix A).

2.2 PURPOSE

The purpose of the Phase I ESA is to identify, to the extent feasible pursuant to the process prescribed in ASTM International (ASTM) E1527-13, recognized environmental conditions (RECs) in connection with the property. An REC means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment, (2) under conditions indicative of a release to the environment, or (3) under conditions that pose a material threat of a future release to the environment. The ASTM E1527-13 practice constitutes all appropriate inquiries (AAIs) for the purpose of Landowner Liability Protections, under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This report reflects the observations, information, and data collected by EA during the period of May 2018 through August 2018. Supporting documentation is provided in the appendixes as follows:

- Appendix A—Figures
- Appendix B—Photograph Log
- Appendix C—Historical Research Documentation (including aerial photographs and historical maps)
- Appendix D—Regulatory Records Documentation
- Appendix E—Supporting Documentation
- Appendix F—Qualifications of Environmental Professionals (including resumes of report preparers).

2.3 DETAILED SCOPE OF SERVICES

EA prepared this Phase I ESA in accordance with Guam EPA contract RFP No. 2015-001, dated 13 April 2018.

This Phase I ESA was performed in accordance with ASTM E1527-13 (Standard Practice for ESAs: Phase I ESA Process) and consists of a review of current and historic activities and conditions at the subject site and surrounding properties, including a non-intrusive visual inspection of the subject site; review of local, state, and federal regulatory database records;

review of available historic records; and a survey of adjacent land uses. The site reconnaissance does not address non-ASTM considerations such as asbestos, lead-based paint, drinking water quality, or radon, nor does it include sampling or chemical analysis of soils, surface water, or groundwater or an intensive examination of facility hazards (compliance audit).

2.4 SIGNIFICANT ASSUMPTIONS

In expressing the opinions stated in this report, EA has exercised the degree of skill and care ordinarily exercised by a reasonable prudent Environmental Professional in the same community and in the same time frame given the same or similar facts and circumstances. EA assumes that the client, as set forth in the contractual agreement, is also the user as defined by ASTM E1527-13. Documentation and data provided by the user, designated representatives thereof, or other interested third parties, or from the public domain, and referred to in the preparation of this assessment, were used and referenced. Consequently, EA assumes no responsibility or liability for the accuracy of such documentation or data.

The independent conclusions in this report represent EA's professional judgment based on information and data available to EA during the course of this assignment. Factual information regarding operations, conditions, and test data provided by the User or their representative are assumed to be correct and complete. The conclusions presented are based on the data provided, observations, and conditions that existed on the date of the onsite visit.

2.5 LIMITATIONS AND EXCEPTIONS

EA does not warrant that there are no toxic or hazardous materials or contamination, nor does EA accept any liability if such are found at some future time or could have been found if sampling or additional studies were conducted. EA does not assume responsibility for other environmental issues that may be associated with this subject site.

In view of the rapidly changing status of environmental laws, regulations, and guidelines, EA cannot be responsible for changes in laws, regulations, or guidelines that occur after the study has been completed and that may affect the subject site.

This report was prepared for the Guam Environmental Protection Agency (EPA) by EA and is based in part on third party information not within the control of the Guam EPA or EA. While it is believed that the third-party information contained herein will be reliable under the conditions and subject to the limitations set forth herein, neither the Guam EPA nor EA guarantee the accuracy thereof.

2.6 SPECIAL TERMS AND CONDITIONS

No special terms or conditions were stated for this Phase I ESA.

2.7 USER RELIANCE

This report is exclusively for the use and benefit of the Guam EPA as shown on the cover page of this report. This report is not for the use or benefit of, nor may it be relied upon by, any other person or entity without the advance written consent of EA.

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3 USER PROVIDED INFORMATION

A copy of the ASTM E1527-13 User Questionnaire as well as a Freedom of Information Act (FOIA) request was submitted to Guam EPA and the Guam Department of Land Management (DLM) for the purpose of requesting the following information. Records of Communication are presented in Appendix E. Mr. Edwin Aranza of Guam EPA was contacted by EA via email. Mr. Mike Borja of Guam DLM was contacted by EA via email. Both were also given hard copies of the User Questionnaire. Records of Communication are contained in Appendix E. To date, EA has not received a response from Guam EPA and Guam DLM to the User Questionnaire.

3.1 REASON FOR PERFORMING PHASE I ESA

Guam EPA chose the subject site under the Brownfields State Response Program.

3.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

No response was received to the User Questionnaire. EA will issue an addendum letter to the client should any environmentally significant information be received on the User Questionnaire.

3.3 SPECIALIZED KNOWLEDGE

No specialized knowledge of the subject property is known. No response was received to the User Questionnaire. EA will issue an addendum letter to the client should any environmentally significant information be received on the User Questionnaire.

3.4 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

Mrs. Junaita Blas, Director of Island Girl Power, was questioned regarding commonly known or reasonably ascertainable information about the property that would help the Environmental Professional to identify conditions indicative of releases or threatened releases such as past uses of the property, specific chemicals that are present or once were present at the property, spills or other chemical releases that have taken place on the property, or any environmental cleanups that have taken place at the property. Mrs. Blas mentioned that there was a hazard survey done prior to IGP occupying the buildings. The interview is documented in Section 5 and the Record of Communication is contained in the Appendix E.

3.5 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

No response was received from the User Questionnaire. The Abstract of Title does not indicate any value reduction for environmental issues.

3.6 OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION

No response was received from the User Questionnaire. Information obtained from other parties such as representatives of the owner, property manager, and/or occupants is provided in Section 7

3.7 OTHER

No additional information was provided by the User.

4 RECORDS REVIEW

4.1 PHYSICAL SETTING SOURCES

4.1.1 Topography

The subject site is located on the U.S. Geological Survey (USGS) Hagatña topographic quadrangle map and is approximately 95 feet (ft) above mean sea level as shown on Figure 1 (Appendix C). The topography of the subject site slopes northwest toward a small stream channel. Regional topography slopes northwest toward Agana Bay.

4.1.2 Geology

The subject site is located within the Flat-lying Limestone Plateau Physiographic Province (Natural Resource Atlas of Southern Guam, 2007) and is underlain by the Barrigada Limestone, as shown by Figure 1 (Appendix E).

4.1.3 Soils

As shown on Figure 2 (Appendix E) the subject site is underlain by soils of the Hagatña argillaceous member, characterized by coarse-to-fine-grained pale-yellow, tan, or brown fossiliferous detrital limestone containing 2 to 5 percent decimated clay and as much as 20 percent clay in pocket and cavities. The Hagatña argillaceous member includes undifferentiated lenses of other Mariana Limestone facies. Typically, the Hagatña argillaceous member is unconformable upon underlying rocks.

4.1.4 Wetlands

Review of information from the United States Fish and Wildlife National Wetland Inventory (NWI) Map of Guam, no wetland areas are located on the subject site. A copy of the NWI map is included in Appendix E.

4.2 STANDARD ENVIRONMENTAL RECORD SOURCES AND ADDITIONAL DATABASES

A regulatory database report as typically provided by a third-party vendor such as Environmental Data Resources, Inc. (EDR) is not available for Guam; therefore, regulatory information pertaining to the subject site and the surrounding area was obtained via contacting the agencies listed in Sections 4.2.1 and 4.2.2.

Furthermore, the following distances were used to assess potential for vapor migration to impact the subject site from offsite properties with impact from petroleum hydrocarbon contaminants of concern (COCs) and/or COCs included in Table X6.1 of the Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (E2600-10). Petroleum hydrocarbon chemicals of concern are those volatile petroleum hydrocarbon compounds that are a subset of the COC list and that readily biodegrade to carbon dioxide or water by soil microbes in aerated environments.

- ***Upgradient Sites***—1,760 ft (1/3-mile) for non-petroleum hydrocarbon COC sites, and 528 ft (1/10-mile) for sites with petroleum hydrocarbon COC sites.
- ***Crossgradient Sites***—365 ft (1/3-mile) for non-petroleum hydrocarbon COC sites, 165 ft for sites with petroleum hydrocarbon COCs where light non-aqueous phase liquid (LNAPL) or “free product” exists, and 95 ft where only dissolved petroleum hydrocarbons are present.
- ***Downgradient Sites***—100 ft for COC contaminated sites and sites where LNAPL or “free product” is presumed, and 30 ft when dissolved-phase petroleum hydrocarbons are presumed.

4.2.1 Federal Records and Databases

EA contacted the United States Army Corps of Engineers (USACE) and United States EPA (USEPA) and requested information from the following federal environmental databases as part of this investigation:

- Federal Department of Defense (DOD) list
- Federal Formerly Used Defense Sites (FUDS) list
- Federal Brownfields list
- Federal Superfund (CERCLA) Consent Decrees (CONSENT) list
- Federal Record of Decision (ROD) list
- Federal Uranium Mill Tailings Site (UMTRA) list
- Federal Open Dump Inventory (ODI) list
- Federal Toxic Chemical Release Inventory System (TRIS) list
- Federal Toxic Substances Control Act (TSCA) list
- Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)/TSCA Tracking System (FTTS) list
- Federal FTTS Inspections and Enforcements list
- Federal Historical FTTS
- Federal Section 7 Tracking System (SSTS) list
- Federal CERCLA Lien Information
- Federal Polychlorinated Biphenyl Activity Database (PADS) list
- Federal Radiation Information (RADINFO) list
- Federal Clandestine Drug Labs (CDL) list
- Federal Integrated Compliance Information System (ICIS) list
- Federal Land Use Control Information System (LUCIS) list
- Federal Department of Transportation, Office of Pipeline Safety (DOT OPS) Incident and Accident Data list
- Federal Material Licensing Tracking System (MLTS) list
- Federal Mines Master Index File (MINES) list
- Federal Facility Index System (FINDS) list
- Federal RCRA Administrative Action Tracking System (RAATS) list

- Federal Biennial Reporting System (BRS) list
- Federal National Priorities List (NPL) list
- Federal Proposed NPL list
- Federal Delisted NPL list
- Federal NPL Liens list
- Federal Comprehensive Environmental Response, Cleanup, and Liability Information System (CERCLIS) list
- Federal CERCLIS-No Further Remedial Action Planned (NFRAP) list
- Federal Resource Conservation and Conservation Act (RCRA) Corrective Action Sites (CORRACTS) list
- Federal RCRA non-CORRACTS TSD list
- Federal RCRA-generator list
- Federal Emergency Response Notification System (ERNS) list
- Federal Institutional Controls list
- Federal Engineering Controls list

4.2.2 State/Tribal Records and Databases

EA contacted Guam EPA and requested information from the following state/tribal environmental databases as part of this investigation:

- State Recycling Directory (SWRCY) list
- State Brownfields list
- State National Pollutant Discharge Emissions System (NPDES) Wastewater Permitting list
- State Permitting and Facility Information (AIRS) list
- State Historical Underground Storage List (UST) list
- State Historical Leaking Underground Storage Tank (LUST) list
- State Aboveground Storage Tank (AST) list
- State Drycleaners list
- State Historical Cleaners list
- State Lead Inspection list
- State Hazardous Waste Sites (SHWS) list
- State Solid Waste Facilities/Landfills (SWF/LF) list
- State Oil Control Program Cases (OCPCASES) list
- State UST list
- State LUST list
- State Voluntary Cleanup Program (VCP) list
- Institutional Control list
- Indian Reservation list
- Indian LUST list
- Indian UST list

4.3 ADDITIONAL ENVIRONMENTAL RECORD SOURCES

4.3.1 State Regulatory Environmental Records

In addition to the Guam EPA, EA submitted a FOIA request to the Guam Homeland Security (GHS) Office of Civil Defense for information regarding petroleum storage and releases of hazardous materials and/or petroleum products or other environmental issues at the subject site.

EA has received a letter of response on 1 June 2018 regarding the FOIA request from Mr. Charles Esteves. Mr. Esteves indicated that they have no records for the subject site. Documentation of the FOIA request is presented in Appendix D. A record of communication with the GHS is included in Appendix E.

4.3.2 Guam Fire Department Records

EA submitted a FOIA request to the Guam Fire Department for information regarding environmental issues or emergency response at the subject property. EA received an Origin and Cause Investigative Report for a structure fire in an abandoned building at the south end of the subject site. An undetermined cause fire was extinguished on 13 March 2015. Documentation of the FOIA request and response is presented in Appendix E.

4.3.3 USEPA/Guam Permit Records

As stated in Section 4.3.1, EA received no response from the Guam EPA regarding the FOIA request.

4.3.4 Guam Zoning/Land Use Records

Records of the Guam Bureau of Statistics and Plans (i.e., zoning applications, watersheds, etc.) are available via computer through the Guam Environmental Assessment Tool. According to the website, the subject site is zoned for one-family dwellings. A land use report downloaded from the website is included in Appendix E.

4.4 HISTORICAL USE INFORMATION ON THE PROPERTY AND ADJOINING PROPERTIES

4.4.1 Historical Topographic Maps

Topographic maps from 2016 were reviewed as part of this investigation. The following table summarizes the information from these maps. Copies of the reviewed topographic maps are presented in Appendix C.

TOPOGRAPHIC MAP REVIEW SUMMARY

Date	Source	Subject Property	Adjacent Properties
2016	WGS	Multiple structures shown on the subject site. A red outline indicates project site.	South of the Subject property is an elementary school. Roads are visible east of the subject property. Structures located east of Lot No. 10114-NEW-3-R2 are all residential housing.

4.4.2 Aerial Photographs

An aerial photograph from 1975 was reviewed as part of this investigation. Other aerial photographs from 2005, 2006, 2010, 2011, 2015, 2016, 2017, and 2018 were obtained as satellite images and reviewed as part of this investigation. A copy of the aerial photograph is presented in Appendix C.

4.4.3 Fire Insurance Maps

There are no Sanborn fire insurance maps were found at GFD for the subject site or adjacent properties.

4.4.4 Local Street Directories

No local street directories were available at DPW and DLM for the subject site or adjacent properties.

4.4.5 Property Tax Files

Figure 3 (Appendix E) provided by Guam DLM shows the tax parcel map for the subject site.

4.4.6 Recorded Land Title Records

An Abstract of Title covering Lot 10114-NEW-3-R2, which contains the subject property, was obtained for review as part of this investigation summarizing ownership and real property history. The following table summarizes the Abstract of Title findings. A copy of the Abstract of Title is included in Appendix E. Note that Lots Nos. 10114 and 10058-R1 make up basic Lot No. 10114-NEW

ABSTRACT OF TITLE SUMMARY

Date	Document	Notes	Lot
26 February 1952	Inst. No. 25219, Transfer of Land to the Government of Guam	Grantor: Secretary of the Interior by Executive Order No. 1978 and Under the Section 28© of the Organic Act of Guam, United States of America Grantee: Government of Guam	Lot not mentioned

Date	Document	Notes	Lot
24 April 1967	Inst. No. 80253, Notice of Filing of Petition for Registration of Title to Land; under Land Registration Case No. 9-67	Grantor: Island Court of Guam Grantee: In the matter of the Application of the Government of Guam for Initial Registration Title to Land Designated as Lot no. 10114, Dededo, Guam	Lot No. 10114, Dededo, Guam; Area 205.729 acres
25 November 1994	Inst. No. 520470, Consolidation Survey Map of Portions of Lot 10058-R1 and Lot 10114 into Lot 10114-NEW	Made By: Director, Dept of Land Management Drawing No: I4-94T576	Lot No. 10114-NEW, Dededo, Guam; Area 200,595 square meters
25 June 2009	Inst. No. 792116, Lot Parcelling Survey Map of Lot 10114-NEW-3	Made by: Guam Housing & Urban Renewal Authority Drawing no: PRB2009-039	Lot No. 10114-NEW-3- R1, Dededo, Guam; Area 17,751 square meters
5 May 2011	Inst. No. 821227, Re-Subdivision Survey Map of Lot 10114-NEW-3-R1	Made by: Guam Housing & Urban Renewal Authority Drawing No. PRB2009-039A	Lot No. 10114-NEW-3- R2, Dededo, Guam; Area 14,918 square meters

4.4.7 Prior Environmental Reports

According to Mrs. Juanita Blas, Director of Island Girl Power, there are previous environmental hazardous reports done by Guam EPA with GHURA. However, Guam EPA has not provided any reports regarding the subject site.

4.4.8 Other Historical Sources

A 1942 Guam Land Utilization Map indicated that subject site had poor shallow soils with scattered farms and some forests (Appendix E).

5 SITE RECONNAISSANCE

5.1 METHODOLOGY AND LIMITING CONDITIONS

A site walk of the subject site was performed by EA project manager, Mr. Robert Shambach and EA environmental scientist, Mr. Christopher Rosario between 0930 – 1105 hours on June 6, 2018. EA was accompanied by Mrs. Juanita Blas, founder of Island Girl Power.

The following afternoon, between 1445 – 1530 hours, a site walk of the northwest portion of the subject site was performed by Mr. Robert Shambach and Mr. Christopher Rosario. The exterior structure of the building occupied by Knights of Columbus was observed only. Representatives of Knights of Columbus were not available at the time of the site visit therefore, the interior of the building was not inspected. A record of observation of the subject site is included in Appendix E. A photolog of the site reconnaissance is located in Appendix B.

5.2 SITE AND VICINITY GENERAL CHARACTERISTICS

The subject site is a developed parcel that is north of Maria Ulloa Elementary School. The subject site contains a total of 13 concrete buildings and 3 storage containers. The ages of the buildings are unknown, however, interviews with current occupants reveal that the buildings are “old”. The interior structure of five buildings were observed due to their accessibility. The exterior structure of all the buildings including their surroundings were observed on the subject property.

The subject site has three entry points. The first access point is located at the northeast boundary of the subject site entering the parking lot of Island Girl Power. The second access point is located northwest of the subject site accessing the Knights of Columbus parking lot. The last entry point is located south-west of the subject site boundary passing through San Jose Guma Housing office. The San Jose Guma housing office is not located within the subject site boundary.

Table – On-Site Buildings (Usage, Access, Occupant, and Location)				
Building	Usage	Observed? Yes/No	Occupant	Location
IGP thrift store	Sell items donated by the community	Yes; building walkthrough with Mrs. Blas	Island Girl Power	Eastern portion of the subject property
IGP office	Club/organization meetings and tutoring sessions	Yes; building walkthrough with Mrs. Blas	Island Girl Power	Eastern portion of the subject property
IGP Community Center	Hold classes for a variety of subjects	Yes; building walkthrough with Mrs. Blas	Island Girl Power	Eastern portion of the subject property
IGP storage building	Storage of a variety of donated items	Yes; building walkthrough with Mrs. Blas	Island Girl Power	Eastern portion of the subject property
Knights of Columbus Building	Main Office	Interior: No Exterior: Yes	Knights of Columbus	North-west portion of the subject property

Table – On-Site Buildings (Usage, Access, Occupant, and Location)				
Building	Usage	Observed? Yes/No	Occupant	Location
Abandoned Building Structure #1	Residential housing for homeless families	Interior: No; Entry points into building blocked off. Exterior: Yes	San Jose Guma Housing	Western portion of the subject property
Abandoned Building Structure #2	Residential housing for homeless families	Interior: No; Entry points into building blocked off. Exterior: Yes	San Jose Guma Housing	Western portion of the subject property
Abandoned Building Structure #3	Residential housing for homeless families	Interior: Yes; one access point available. Exterior: Yes	San Jose Guma Housing	Western portion of the subject property
Housing Unit #1	Residential housing for homeless families	Interior: No; Doors locked. Exterior: Yes	San Jose Guma Housing	Western portion of the subject property
Housing Unit #2	Residential housing for homeless families	Interior: No; Doors locked. Exterior: Yes	San Jose Guma Housing	Western portion of the subject property
Housing Unit #3	Residential housing for homeless families	Interior: No; Doors locked. Exterior: Yes	San Jose Guma Housing	Center portion of the subject property
Housing Unit #4	Residential housing for homeless families	Interior: No; Doors locked. Exterior: Yes	San Jose Guma Housing	Center portion of the subject property
Housing Unit #5	Residential housing for homeless families	Interior: No; Doors locked. Exterior: Yes	San Jose Guma Housing	Center portion of the subject property

5.3 CURRENT USE OF THE PROPERTY

The subject site is developed and is currently being occupied by IGP on the eastern portion of the subject site. That portion of the subject site is currently being used to hold IGP events and meetings for community outreach. The northwest portion of the subject site is occupied by Knight of Columbus for their office. The southwest portion of the property is used primarily for the homeless shelter and is being ran by San Jose Guma housing. There are fences separating Island Girl Power and Guma San Jose housing.

5.4 DESCRIPTION OF ONSITE STRUCTURES, ROADS, AND IMPROVEMNETS

As depicted on Figure 1 (Appendix A), the subject property contains concrete building structures and storage containers.

A photograph log is presented in Appendix B.

5.5 INTERIOR OBSERVATIONS

The following information documents the interior observations of the subject site structures:

- IGP thrift store – the facility is currently used as a thrift store, selling goods that have been donated from the community. The floor of the thrift shop is covered with 12-inch tile flooring and the interior of the building is painted white.
- IGP office – facility is currently used for meetings and tutoring sessions. The floor of the office is covered with 12-inch tile flooring and the interior of the building is painted white.
- IGP community center – the facility is currently used for teaching classes such as music, cooking, reading, and arts & crafts. The floor of the community center is covered with 12-inch tile flooring and the interior of the building is painted white.
- IGP storage building – the facility is currently being used for storage of a variety of items. All items observed were not stored in any secondary containment neither were they stored in any hazardous materials locker. There was no staining on any of the containers and no evidence of releases. No floor drains are entry points seen in the buildings. The observed items include the following:
 - 2-gal fuel containers
 - Aerosol sprays
 - Paint cans and supplies
 - Tools
 - Gardening supplies
 - Mixed storage containers
 - Office supplies
 - Lighting fixtures
 - Building materials
 - Pesticides and applicator
 - Ortho[®] Bug Geta Snail and Slug Killer
 - Potting soil
 - Fertilizer
- Abandoned Structures 1, 2, & 3 – abandoned buildings are currently managed by San Jose Guma Housing and are occupied by squatters. The interior structure of abandoned building 1 and 2 were not observed due to the inaccessibility of the buildings. Abandoned buildings had ply board covering the windows and the door entries. The interior of abandoned structure #3 was observed. Inside abandoned building #3, the floor was covered with 12-inch ceramic tile flooring overlaying 9-inch tiles which indicate possible asbestos adhesive. Walls are painted different colors over existing blue paint.

5.6 EXTERIOR OBSERVATIONS

The following information documents the exterior observations of the subject site:

- The exterior on the building structures were observed. No floor drains, or cracks or holes were seen in each of the buildings.

- One sewer manhole at about between 24-36 inches in diameter was observed on the northern portion of the subject site.
- The whole eastern portion of the subject site is surrounded by chain link fence.
- The southeast portion of the subject site is being used for small-scale farming and gardening. At the time of the site visit, no crops were being grown. No equipment is being used other than gardening tools.
- Waste piles located at the northeast portion of the property containing the following:
 - Nine 1-gal paint
 - Household trash
 - Carboard material
 - Paper material for arts and crafts
 - Plastic trash bins
 - Printer
 - Bed frames
 - Rotten wood
 - Computer monitors
- Waste piles located at the southeast portion of the property containing the following:
 - Scrap metal material for:
 - Canopy pipes
 - Chicken wiring
 - Shelving racks
 - Lawn mower
 - Tires
 - Broken wooden table
 - Rotten wooden pallets
- A broken dryer for laundry was observed north of abandoned building #3.

5.7 CURRENT USE OF ADJOINING PROPERTIES

There are no adjoining properties for the subject site; however, there are adjacent properties around the site. West of the subject site is undeveloped land while north, east and south of the subject site are all developed with residential housing.

6 INTERVIEWS

Documentation of the interviews conducted as part of this investigation is contained in Appendix E.

6.1 PRESENT AND PAST OWNER INTERVIEWS

Mr. Al Santos, GHURA administration, was interviewed via telephone on 13 September 2018. Mr. Santos stated that he has information regarding a hazardous survey that was done a few years ago at the subject site. He mentioned that he would forward any information to EA about the subject site. However, EA has not received any information from GHURA.

6.2 PRESENT AND PAST SITE MANAGER INTERVIEW(S)

EA interviewed Al Santos from GHURA administration as noted in Section 7.1.

6.3 PRESENT AND PAST OCCUPANT INTERVIEW(S)

Mrs. Juanita Blas, founder of Island Girl Power, was interviewed during the site visit. Mrs. Blas provided a brief history of Island Girl Power. Mrs. Blas mentioned that the buildings were built in the 1960's. She also provided information on who are the current occupants of the subject site and what buildings they are occupying. Additionally, Mrs. Blas stated that a few years ago, there was a hazardous survey done on some of the building structures by Guam EPA but that she no further knowledge on the report.

Mr. Robert Wolford, manager of San Jose Guma Housing, was interviewed during the site visit. Mr. Wolford gave a brief summary of their organization. He mentioned that their organization manages the shelters and that catholic social services take care of five homes. Additionally, he is aware that homeless families are currently staying in some of the abandoned buildings that they manage. At the end of the interview, he stated that GHURA will be the best people to ask regarding the history of the subject site.

6.4 LOCAL GOVERNMENT OFFICIAL INTERVIEW(S)

Mr. Edwin Aranza, Guam EPA was interviewed regarding the subject property. Mr. Aranza had no incline regarding any hazardous survey done by them. Mr. Aranza mentioned that he will try to find any records in their office.

6.5 INTERVIEWS WITH OTHERS

No other interviews were obtained regarding the subject site. Records of communication are included in Appendix E.

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7 FINDINGS

7.1 FINDINGS

7.1.1 *De Minimis* Findings

De minimis conditions generally do not present a material risk of harm to the public or environment, and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions assessed to be *de minimis* would include minor spills of petroleum products as a result of equipment usage or storage, temporary staging of non-hazardous waste or materials, etc.

The additional findings noted below are not considered RECs but would rather be considered a *de minimis* condition where no additional investigation or action is currently warranted; however, preventive measures may be prudent as discussed below and are provided only for the purpose of awareness.

- A significant amount of rusted and deteriorated scrap metal, metal paint cans, tires, and metal wiring observed on the southern portion of the subject site.

7.1.2 Historical Recognized Environmental Conditions

A HREC refers to a past release that has been remediated to below “residential” standards and given regulatory closure with no use restrictions. HREC is defined by ASTM in the E1527-13 standard as “a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).” No HRECs were identified.

7.1.3 Controlled Recognized Environmental Conditions

Controlled Recognized Environmental Condition (CREC) is a new term introduced in the ASTM E1527-13 standard. The Controlled REC concept was introduced to address contaminated sites that have received risk-based regulatory closure, where no further remediation is required but residual contamination still exists at a site and the property is subject to some sort of control or use restriction. These sites, where contamination is controlled but could still pose ongoing or future obligations on the owner (such as special precautions during construction or grading activities), have been a source of some confusion to the environmental due diligence industry with regards to how they should be classified.

The ASTM definition of CREC in the E1527-13 standard is as follows: “a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-

based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).” No CRECs were identified.

7.1.4 Recognized Environmental Conditions

The following RECS were identified:

- There were no REC’s identified on the subject site.

7.2 OPINION

Based on the results of this Phase I ESA, including the results of the site reconnaissance, interviews, and records review, EA is of the opinion that there is a potential that the identified RECs have impacted the environmental integrity of the subject site and further investigation is required to address them.

7.3 CONCLUSIONS

EA has performed this Phase I ESA in conformance with the scope and limitations of ASTM E1527-13 of the Lot No. 101114-NEW-3-R2, a consolidation of Lots Nos. 10114 and 10058-R1 as shown on Figure 1 (Appendix A), the subject site. Any exceptions to, or deletions from, this practice are described in Section 11. This ESA has revealed no evidence of RECs in connection with the property.

7.4 DATA GAPS

A data gap is defined by ASTM E1527-13 as a lack of or inability to obtain information required by this practice despite good faith efforts by the Environmental Professional to gather such information. Data gaps may result from the incompleteness in any of the activities required by this practice including, but not limited to, the site reconnaissance, interviews, and historical research. Failure to achieve the historical research objectives identified in the standard is termed a *data failure* and is a type of *data gap*.

Data Gap	Reason for Occurrence	Significance and Rationale
Data Gap – No User Questionnaire	Lack of response from GHURA to submitted User Questionnaire.	High Significance – Without feedback from the user/owner regarding property records, usage or storage, a significant data gap exists.
Data Gap – No documentation of the Environmental Hazard Assessment	Lack of FOIA response to written submittals and follow-up phone calls.	High Significance - According to Mrs. Juanita Blas, a hazardous survey was done a few years ago.
Data Gap – No local government documentation of Guam EPA records indicating any environmental hazardous surveys	No records found from Guam EPA	High Significance - If asbestos and lead-based paint was found on the subject property, this can be a hazard for those homeless people occupying these buildings.
Data Gap – No EDR Report.	Third party database records do not exist for Guam.	Low Significance - Without repose from FOIA request, an EDR Report can provide sufficient information regarding the subject property and adjacent lands.
Data Gap – Observations inside building structures within subject property.	Inaccessibility of the interior of the buildings	Low significance – According to the Abstract Title, building structures were built at the same time.

7.5 SIGNATURE(S) OF THE ENVIRONMENTAL PROFESSIONAL(S)

“I declare that, to the best of my professional knowledge and belief, I meet the definition of an Environmental Professional as defined in Section 312.10 of 40 CFR 312.” “I have the specific qualifications based on education, training, and expertise to assess a property of the nature, history, and setting of the subject site. I, have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.”

Robert Shambach, P.G.
Guam Operations Manager/Sr. Geologist

October 2018

Resumes for personnel assigned to this project are presented as part of Appendix F.

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8 NON-SCOPE CONSIDERATIONS

8.1 RECOMMENDATIONS

The following recommendation, though not required under the ASTM E1527-13 standard, is provided as a courtesy to Guam EPA:

Based on the findings of this Phase I ESA, EA is presenting the following recommendation:

- It is the professional opinion of EA that a significant amount of metallic, plastic, construction, and household waste debris located on the northeast, southeast and northwest boundaries of the subject site should be properly cleaned up and disposed offsite.

8.2 ADDITIONAL SERVICES

No additional services were performed as part of this assessment.

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9 DEVIATIONS

As stated in Section 4.2, a regulatory database report as typically provided by a third-party vendor such as EDR is not available for Guam; therefore, regulatory information pertaining to the subject site and the surrounding area was obtained via contacting federal, state, and local agencies through FOIA requests and interviews.

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10 REFERENCES

The following sources of information were consulted as a part of this ESA. Documentation supporting these sources and additional site research is contained in the Appendices.

Blaz, J. 2018. Personal communication between Robert Shambach and Christopher Rosario of EA and Juanita Blaz, Island Girl Power. May 31 (see Appendix E).

EA Engineering, Science, and Technology, Inc., PBC. 2018. Site reconnaissance by Robert Shambach and Christopher Rosario of EA. 1 May (see Appendix E).

Federal Emergency Management Agency (FEMA). 2007. *Flood Insurance Rate Map, Territory of Guam, Panel 95 of 206, Map No. 6600010025D*. Available online at <https://hazards.fema.gov/wps/portal/mapviewer>. Accessed May 28, 2018.

Google Earth, 2005. Guam Satellite Image. Accessed August 2018. (See Appendix C)

Google Earth, 2006. Guam Satellite Image. Accessed August 2018. (See Appendix C)

Google Earth, 2010. Guam Satellite Image. Accessed August 2018. (See Appendix C)

Google Earth, 2011. Guam Satellite Image. Accessed August 2018. (See Appendix C)

Google Earth, 2015. Guam Satellite Image. Accessed August 2018. (See Appendix C)

Google Earth, 2016. Guam Satellite Image. Accessed August 2018. (See Appendix C)

Google Earth, 2017. Guam Satellite Image. Accessed August 2018. (See Appendix C)

Google Earth, 2018. Guam Satellite Image. Accessed August 2018. (See Appendix C)

Government of Guam. 1975. Uniform Mapping System Aerial Photograph.

Government of Guam. 1993. Parcelling Survey Map of Lot 7054-R4.

Pacific American Title Insurance & Escrow Co. 2018. *Abstract of Title, Lot Number 10114-NEW-3-R2, Yigo, Guam*. June 27.

Santos, A. 2018. Personal communication between Robert Shambach and Christopher Rosario of EA and Al Santos, Administration of Guam Housing & Urban Renewal Authority. September 13 (see Appendix E).

U.S. Department of Agriculture (USDA). 1998. Soil Survey of Territory of Guam. May.

U.S. Fish and Wildlife Service. 2018. National Wetlands Inventory. Available online at <http://www.fws.gov/wetlands/Data/Mapper.html>. Accessed August 20.

U.S. Geological Society (USGS). 1914. Island of Guam Topographic Map.

USGS. 1944. Island of Guam Topographic Map.

USGS. 1954. Island of Guam Topographic Map.

USGS. 1975. Topographic Map of Guam, Mariana Islands.

Water & Environmental Research Institute of the Western Pacific (WERI). 2008. Generalized Geology of Guam, Mariana Islands.

Wolford, R. 2018. Personal communication between Robert Shambach and Christopher Rosario of EA and Juanita Blaz, Guma San Jose. May 31 (see Appendix E).

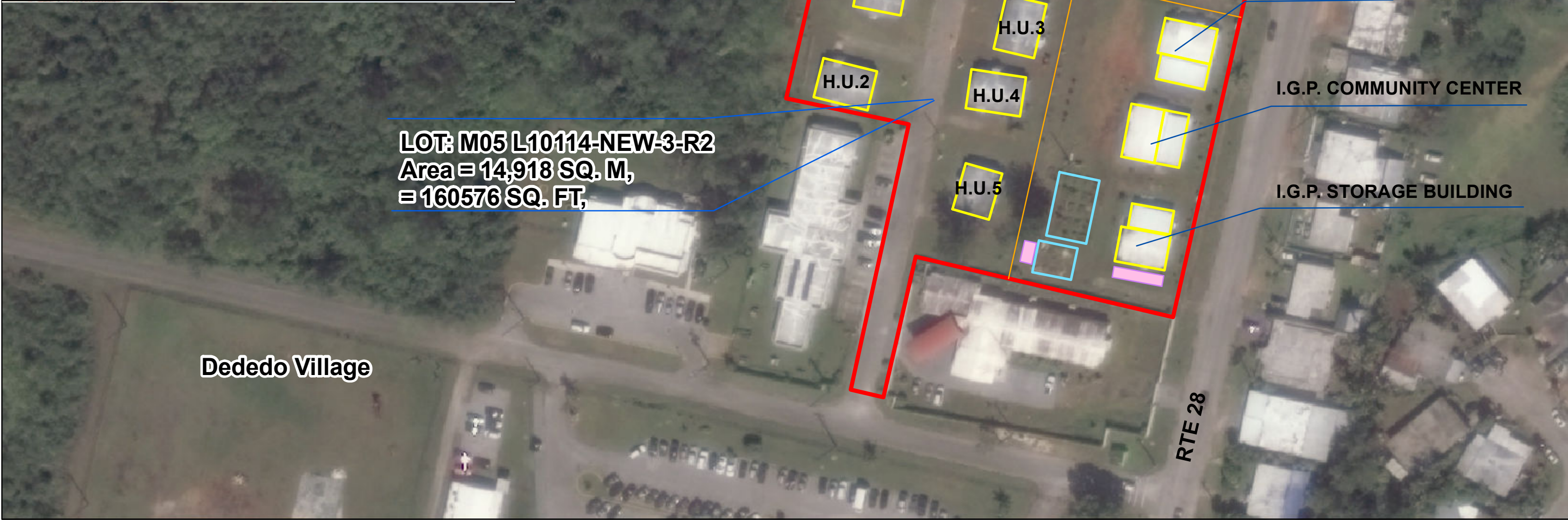
Appendix A

Figures

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ISLAND GIRL POWER = I.G.P
KNIGHTS OF COLUMBUS = K.O.C.
ABANDONED STRUCTURE = A.S.#
HOUSING UNIT = H.S.#

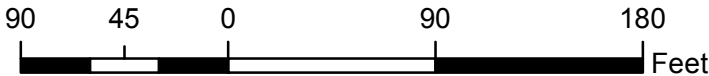


LOT: M05 L10114-NEW-3-R2
Area = 14,918 SQ. M,
= 160576 SQ. FT,

Dededo Village

Legend

- Fenceline
- Structures
- StorageContainers
- Gardens
- Project Site Location



COORDINATE/REFERENCE: WGS_1984_UTM_Zone_55N: IMAGERY 2016

<div>EA Engineering, Science, and Technology, Inc., PBC 1001 Army Drive, Suite 103, Barrigada, 96913-1402 Telephone: (671) 646-5231 Facsimile: (671) 646-5230</div>		Project No/TO.:RFP No. 2015-001 Guam EPA Brownfields 2017 Phase I ESAs		
		Figure 1 Site Location Map Phase I Environmental Site Assessment Island Girl Power		
Drawing No. Fig 1. Project Site Location		Date: 09/14/2018	Drawn By: TChargualaf	EA Project No. 1567201

Appendix B

Photograph Log

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Photo 1: Storage Building and container unit at Island Girl Power Dededo, Guam



Photo 2: Fuel cans, aerosol paint cans, 5 gallon paint buckets, and paint supplies. Storage Building and container unit at Island Girl Power Dededo, Guam



Photo 3: Fuel cans, aerosol paint cans, 5 gallon paint buckets, and paint supplies. Storage Building and container unit at Island Girl Power Dededo, Guam



Photo 4: Community Center Building at Island Girl Power Dededo, Guam



Photo 5: Community Center Building at Island Girl Power Dededo, Guam



Photo 6: Island Girl Power Office Building Dededo, Guam



Photo 7: Books, Toys, and Household Items Inside the Island Girl Power Office Building
Dededo, Guam



Photo 8: Thrift Shop Building at the Island Girl Power Site Dededo, Guam



Photo 9: Thrift Shop Building Interior at the Island Girl Power Site Dededo, Guam



Photo 10: Island Girl Power Thrift Shop Interior Dededo, Guam



Photo 11: Household Waste behind Large Storage Container at the Island Girl Power Site
Dededo, Guam



Photo 12: Household Waste behind Large Storage Container at the Island Girl Power Site
Dededo, Guam



Photo 13: Knights of Columbus Building Dededo, Guam



Photo 14: Household Waste Outside of the Knights of Columbus Building Dededo, Guam



Photo 15: Storage Container Unit Adjacent to the Knights of Columbus Building Dededo, Guam



Photo 16: Manhole near the Knights of Columbus Building Dededo, Guam



Photo 17: Squatter Inhabited Abandoned Structure #1 Dededo, Guam



Photo 18: Squatter Inhabited Abandoned Structure #2 Dededo, Guam



Photo 19: Abandoned Structure #3 Dededo, Guam



Photo 20: Household Appliances near Abandoned Structure #3 Dededo, Guam



Photo 21: Household appliances inside Abandoned Structure #3 Dededo, Guam



Photo 22: 12-inch tiles used over 9-inch tiles located inside Abandoned Structure #3 Dededo, Guam



Photo 23: Yellow-colored paint painted over existing blue paint in Abandoned Structure #3
Dededo, Guam

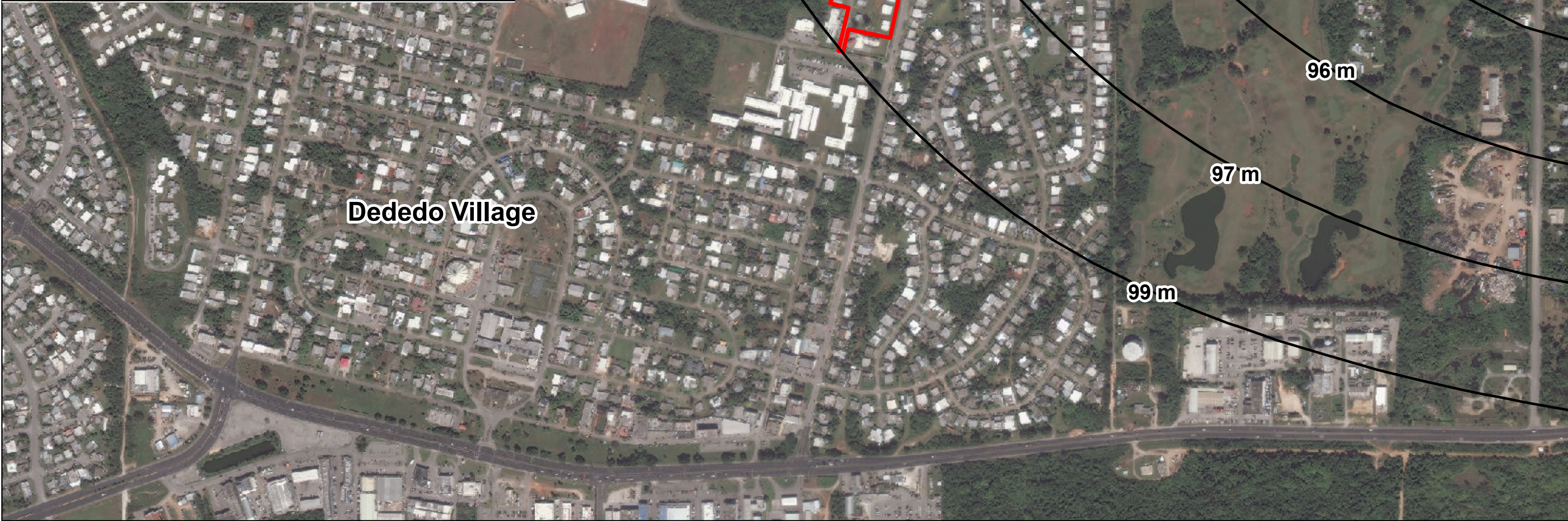


Photo 24: Abandoned Vehicle Near Housing Unit #1 Dededo, Guam

Appendix C

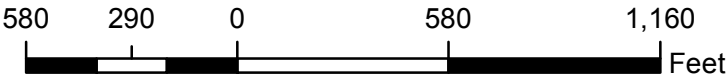
Historical Research Documentation


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COORDINATE/REFERENCE: WGS_1984_UTM_Zone_55N: IMAGERY 2016

- Legend**
- Topographic Lines
 - Project Site Location



 <div>EA Engineering, Science, and Technology, Inc., PBC 1001 Army Drive, Suite 103, Barrigada, 96913-1402 Telephone: (671) 646-5231 Facsimile: (671) 646-5230</div>	Project No./TO.:RFP No. 2015-001 Guam EPA Brownfields 2017 Phase I ESAs		
	Figure 1 Topographic Map Phase I Environmental Site Assessment Island Girl Power		
Drawing No. Fig 1_ Project Site Location	Date: 09/14/2018	Drawn By: TChargualaf	EA Project No. 1567201

1978 Topographic Map
Phase I Environmental Site Assessment
Island Girl Power

Subject Property

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
**TOPOGRAPHIC MAP
OF
GUAM
MARIANA ISLANDS**

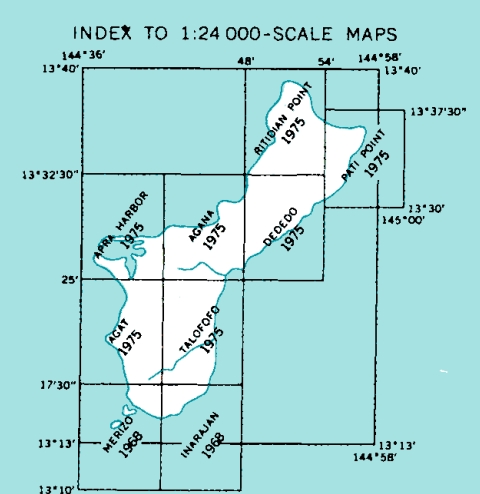
SCALE 1:50 000
0 1 2 3 4 MILES
0 1 2 3 4 KILOMETERS

CONTOUR INTERVAL 40 FEET
GUAM MEAN SEA LEVEL DATUM OF 1963
DEPTH CURVES AND SOUNDINGS IN FEET-DATUM IS MEAN LOWER LOW WATER
SHORELINE SYMBOLS BASED ON 1963 DATUM
This information is not intended for navigational purposes
Projection and 5000-meter grid ticks: Guam coordinate system (Modified Universal Transverse Mercator)
5000-meter Universal Transverse Mercator grid ticks
Zone 55, shown in blue, 1963 Guam datum
Gray tint indicates areas in which only landmark buildings are shown

CONTOUR VALUES	DEPTH CURVE VALUES
100	100
200	200
300	300
400	400
500	500
600	600
700	700
800	800
900	900
1000	1000
1100	1100
1200	1200
1300	1300
1400	1400
1500	1500
1600	1600
1700	1700
1800	1800
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2000	2000
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3600	3600
3700	3700
3800	3800
3900	3900
4000	4000
4100	4100
4200	4200
4300	4300
4400	4400
4500	4500
4600	4600
4700	4700
4800	4800
4900	4900
5000	5000

ROAD CLASSIFICATION
Medium duty ——— Light duty ———
Unimproved dirt ——— Trails ———
Insular Route

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST
N1313-E1436/27X22
1978






Scale 1:25,000

Subject Site

(NRCS, 1975)



Legend

 Subject Site - April 2005

Island Girl Power


Google Earth

Image © 2013 DigitalGlobe

N

1000 ft

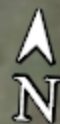
Legend

 Subject Site - February 2006

Island Girl Power


Google Earth

Image © 2013 DigitalGlobe



1000 ft

Legend

 Subject Site - February 2010

Island Girl Power

Google Earth

Image © 2013 DigitalGlobe

N

1000 ft

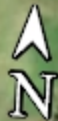
Legend

Subject Site - February 2011

Island Girl Power

Google Earth

Image © 2013 DigitalGlobe



1000 ft

Legend



Subject Site - November 2012

Island Girl Power


Google Earth

Image © 2018 DigitalGlobe

N

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Legend

 Subject Site - March 2015

Island Girl Power

Google Earth

Image © 2018 CNES / Airbus

N

1000 ft

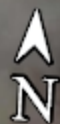
Island Girl Power

Legend

 Subject Site - April 2016

Google Earth

Image © 2018 DigitalGlobe



1000 ft

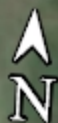
Island Girl Power

Legend

 Subject Site - August 2017

Google Earth

Image © 2018 DigitalGlobe



1000 ft

Island Girl Power

Legend

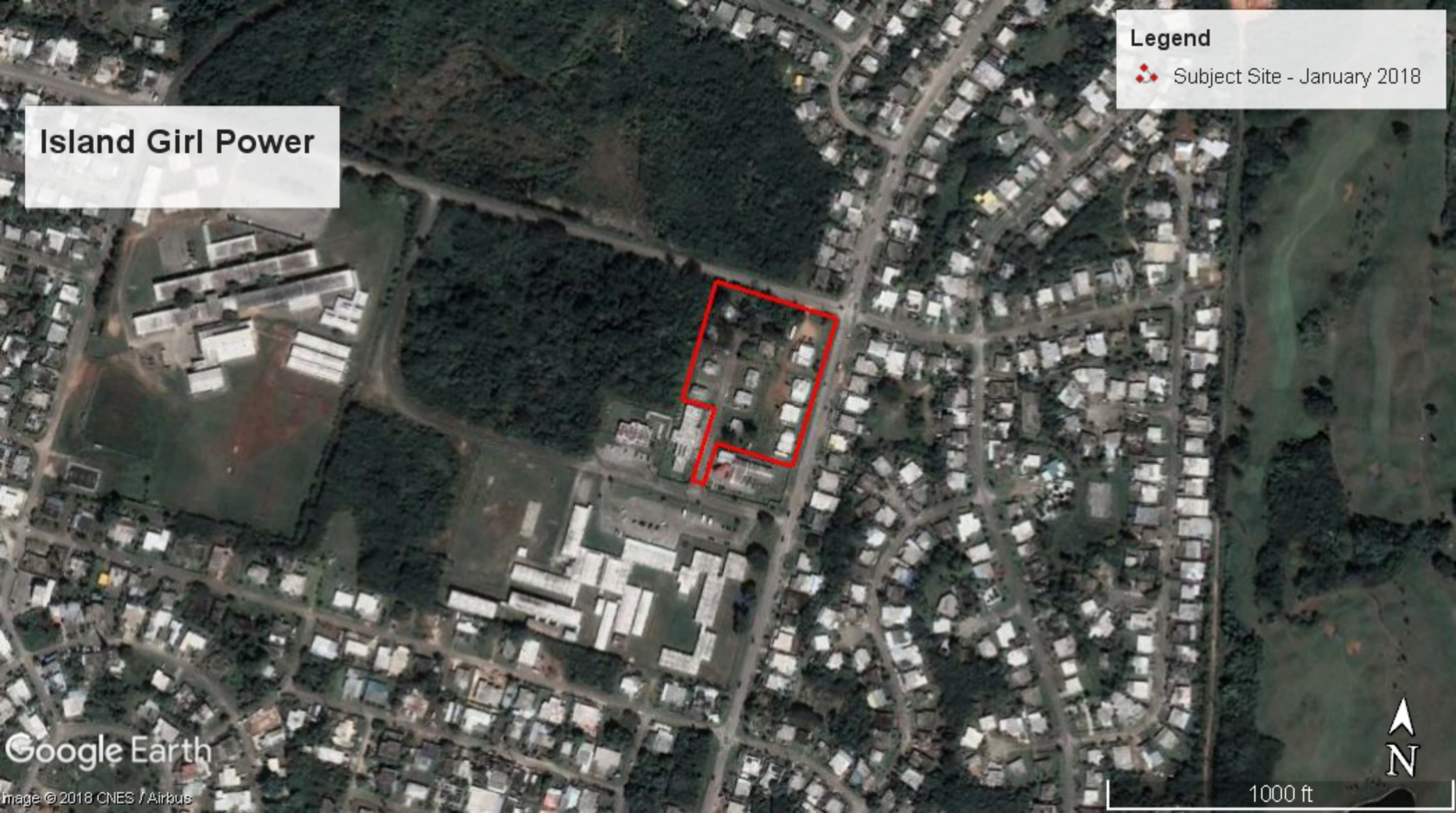
Subject Site - January 2018

Google Earth

Image © 2018 CNES / Airbus

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Appendix D

Regulatory Records Documentation

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Appendix E

Supporting Documentation

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EA Engineering, Science, and Technology, Inc., PBC

1001 Army Drive, Ste. 103
Barrigada, Guam 96913
Telephone: 671-646-5231
Fax: 671-646-5230
www.eaest.com

18 May 2018

Leo Espia, Chief Planner
Guam Homeland Security
Office of Civil Defense
leo.espia@ghs.guam.gov
Phone: 671- 475-9600
Fax: 671- 477-3727

Sent via email

Re: File Review Request under FOIA

Mr. Espia:

EA Engineering, Science and Technology Inc., PBC is an environmental consulting firm submitting a Freedom of Information Act (FOIA) request on behalf of our client, Guam Environmental Protection Agency, under the Brownfields Phase I ESA. As part of the assessment, I am submitting a request for information pertaining to the following programs or databases which could possibly have locations near the subject sites (Figure 1) on Guam:

- Emergency Planning and Community Right-to-Know Act (EPCRA) information regarding hazardous materials and/or chemical inventories.
- Any other information regarding emergency responses to the Subject Sites (see attached figures).

Specific Site of Interest:

- 1. Old GMH – Oka Point**
LOT: M19 L5173-1-R2-NEW-R6
Location: Tamuning, Guam
Latitude: 13.506601 Longitude: 144.781587
(Figure 3)
- 2. Island Girl Power**
LOT: M05 L10114-NEW-3-R2
Location: Dededo, Guam
Latitude: 13.521548 Longitude: 144.844717
(Figure 4)
- 3. Old Good Will**
LOT: M19 L5138-2-R3-NEW-1
Location: Tamuning, Guam
Latitude: 13.499506 Longitude: 144.798411
(Figure 5)
- 4. IBC Lot**
LOT: M13 L7054-R5
Yigo, Guam
Latitude: 13.543863 Longitude: 144.893347
(Figure 6)



EA Engineering, Science, and Technology, Inc., PBC

1001 Army Drive, Ste. 103
Barrigada, Guam 96913
Telephone: 671-646-5231
Fax: 671-646-5230
www.eaest.com

Please use **Guam EPA Brownfields** on all written correspondence or responses forwarded to our offices in reference to this request. Please respond within ten (10) business days of this request. Any written responses should be sent to one of the following:

- 1.) Email: bshambach@eaest.com & crosario@eaest.com , or
- 2.) Address: 1001 Army Drive, Ste. 103
Barrigada, Guam 96913
Telephone: 671-646-5231
Fax: 671-646-5230
www.eaest.com

Please contact myself or Bob as soon as possible at 671-646-5231 or by email at crosario@eaest.com or bshambach@eaest.com with any or with information regarding available files.

Sincerely,

A handwritten signature in black ink, reading 'Christopher Rosario'. The signature is fluid and cursive, with the first name 'Christopher' and last name 'Rosario' clearly distinguishable.

Christopher Rosario
Environmental Scientist I

Record of Communication

Date:	05/18/18 – 05/30/18	EA Project No.:	15672.01
Communications with:	Leo Espia		
Telephone No:	(671) 483-0361		
Communication by:	Email (Bob and Chris)		

Re: FOIA request to GHS

Summary of Communication: (See Email Below)

Bob and Chris,

I was advised this afternoon that my boss has routed the document to the Governor's legal counsel. Please pardon us for the delay. He is new on this area and I guess he wants to be advised. But, I am taking note that you should receive our response no later than Friday. Thank you for being patient with us.

Leo

On Wed, May 30, 2018 at 7:15 PM, Shambach, Bob <bshambach@eaest.com> wrote:
Leo

Can you get a response out by end of the day Friday that's fine. If you need more time let me know.

Thank you
Bob

Get [Outlook for Android](#)

From: Leo Espia <leo.espia@ghs.guam.gov>
Sent: Wednesday, May 30, 2018 6:17:58 PM
To: Rosario, Christopher; Shambach, Bob

Subject: Re: File Review Request under FOIA

Chris and Bob,

Request extend the submission of our response to one more day. Our draft correspondence was not acted as of COB today. Our Head of Office just came back from military leave. For sure this will be with you by tomorrow. Thanks!

Leo

On Fri, May 25, 2018 at 7:57 AM, Rosario, Christopher <crosario@eaest.com> wrote:

Hi Leo,

Thank you for your response, I agree with Bob.

Cheers,

Christopher A. Rosario

Scientist I

EA Engineering, Science, and Technology, Inc., PBC

[1001 Army Drive, Suite 103](#)

[Barrigada, GU 96913](#)-1402

671-646-5231 Ext. 513 (office)

671-487-1640 (cell)

crosario@eaest.com

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From: Shambach, Bob

Sent: Thursday, May 24, 2018 5:11 PM

To: Leo Espia <leo.espia@ghs.guam.gov>; Rosario, Christopher <crosario@eaest.com>

Subject: RE: File Review Request under FOIA

Hi Leo,

Thank you for the response. Additional time is not a problem, if you can get back to Chris and I by close of business, Wednesday, 30 May that will work.

Regards,

Bob Shambach, P.G.

Guam Office Manager/Sr. Geologist

EA Engineering, Science, and Technology, Inc., PBC

[1001 Army Drive, Suite 103](#)

[Barrigada, Guam 96913](#)-1402

Tel: 671-646-5231 x505

Fax: 671-646-5230

Mobile: 671-727-6094

www.eaest.com



Before printing, think about ENVIRONMENTAL responsibility

From: Leo Espia [<mailto:leo.espia@ghs.guam.gov>]
Sent: Thursday, May 24, 2018 4:47 PM
To: Rosario, Christopher <crosario@eaest.com>
Cc: Shambach, Bob <bshambach@eaest.com>
Subject: Re: File Review Request under FOIA

Chris,

As of this date, we cannot find anything in our records that pertains to the sites mentioned in your inquiry. However, we wanted to devote a little more time to go over our response related files. Please give us until close of business on Monday, 28 May 2018. We submit a formal response to your inquiry on or before that time. Thanks!

Leo

LEO RUSTUM J. ESPIA

Deputy Administrator and State Hazard Mitigation Officer, Guam Homeland Security / Office of Civil Defense

Security Liaison and Senior Security Officer, Mariana Regional Fusion Center (Guam)

221-B Chalan Palasyo, Agana Heights, Guam 96910
Tel: (671) 475-9600 / Cell: (671) 483-0361 / Fax: (671) 477-3727

Email: leo.espia@ghs.guam.gov

On Fri, May 18, 2018 at 4:47 PM, Rosario, Christopher <crosario@eaest.com> wrote:

Greetings Leo Espia,

My name is Christopher Rosario from EA Engineering, Science and Technology Inc., PBC (EA). EA is an environmental consulting firm submitting a Freedom of Information Act (FOIA) request on behalf of our client, Guam Environmental Protection Agency, under the Brownfields Phase I ESA. Please see the attached file.

Cheers,

Christopher A. Rosario

Scientist I

EA Engineering, Science, and Technology, Inc., PBC

[1001 Army Drive, Suite 103](#)

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671-646-5231 Ext. 513 (office)

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Eddie Baza Calvo
Governor
Ray Tenorio
Lieutenant Governor

OFFICES OF HOMELAND SECURITY AND CIVIL DEFENSE

Inasiguran I Tano' Guahan/Ufisinan Difensia Sibet
221-B Chalan Palasyo, Agana Heights, Guam 96910
Tel: (671) 475-9600 / Fax: (671) 477-3727
Website: www.ghs.guam.gov



Charles V. Esteves
Administrator
George L. Charfauros, Jr.
Homeland Security Advisor

June 1, 2018

Mr. Christopher Rosario
Environmental Scientist I
EA Engineering, Science and Technology, Inc.
1001 Army Drive, Suite 103
Barrigada, Guam 91913

Dear Mr. Rosario:

Please see our official response to your Freedom of Information Act request for information on Emergency Planning and Community Right-to-Know Act related hazardous materials and/or chemical inventories, and information on emergency responses to the following sites:

1. Old GMH, Oka Point, Taumuning, Guam
Lot: M19 L5173-1-R2-NEW-R6
Latitude: 13.506601 / Longitude: 144.781587
2. Island Girl Power, Dededo, Guam
Lot: M05 L10114-NEW-R2
Latitude: 13.521548 / Longitude: 144.844717
3. Old Good Will, Tamuning, Guam
Lot: M19 L5138-2-R3-NEW-1
Latitude: 13.499506 / Longitude: 144.798411
4. IBC Lot, Yigo, Guam
Lot: M13 L7054-R5
Latitude: 13.543863 / Longitude: 144.893347

We do not have any records for the sites listed.

Please feel free to contact me if you have any questions at office (671) 478-0202 or charles.esteves@ghs.guam.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Charles V. Esteves". The signature is stylized with a large, sweeping "C" and a prominent "E".

Charles V. Esteves
Administrator, Office of Civil Defense

Cc:

Robert Shambach, P.G., Guam Office Manager/Senior Geologist, EA Engineering, Science and Technology, Inc.



EA Engineering, Science, and Technology, Inc., PBC

1001 Army Drive, Ste. 103
Barrigada, Guam 96913
Telephone: 671-646-5231
Fax: 671-646-5230
www.eaest.com

26 June 2018

Mr. Ronald Castro, Battalion Chief
Guam Fire Department
Phone: 671-472-3311
Fax: 671-472-3360

Sent via Facsimile:

Re: File Review Request under FOIA

Mr. Castro:

EA Engineering, Science and Technology Inc., PBC is an environmental consulting firm submitting a Freedom of Information Act (FOIA) request on behalf of our client, Guam Environmental Protection Agency, under the Brownfields Phase I ESA. As part of the assessment, I am submitting a request for information pertaining to the following programs or databases which could possibly have locations near the subject sites (Figure 1) on Guam:

- Emergency Planning and Community Right-to-Know Act (EPCRA) information regarding hazardous materials and/or chemical inventories.
- Any other information regarding emergency responses to the Subject Sites (see attached figures).

Specific Site of Interest:

1. **Old GMH – Oka Point**
LOT 5173-1-R2-NEW-R6
Location: Tamuning, Guam
Latitude: 13.506601 Longitude: 144.781587
(Figure 3)
2. **Island Girl Power**
LOT10114-NEW-3-R2
Location: Dededo, Guam
Latitude: 13.521548 Longitude: 144.844717
(Figure 4)
3. **Old Good Will**
LOT 5138-2-R3 NEW-1-R2
Location: Tamuning, Guam
Latitude: 13.499506 Longitude: 144.798411
(Figure 5)
4. **IBC Lot**
LOT 7054-R8
Yigo, Guam
Latitude: 13.543863 Longitude: 144.893347
(Figure 6)



EA Engineering, Science, and Technology, Inc., PBC

1001 Army Drive, Ste. 103
Barrigada, Guam 96913
Telephone: 671-646-5231
Fax: 671-646-5230
www.eaest.com

Please use **Guam EPA Brownfields** on all written correspondence or responses forwarded to our offices in reference to this request. Please respond within ten (10) business days of this request. Any written responses should be sent to one of the following:

- 1.) Email: bshambach@eaest.com & crosario@eaest.com , or
- 2.) Address: 1001 Army Drive, Ste. 103
Barrigada, Guam 96913
Telephone: 671-646-5231
Fax: 671-646-5230
www.eaest.com

Please contact myself or Bob as soon as possible at 671-646-5231 or by email at crosario@eaest.com or bshambach@eaest.com with any or with information regarding available files.

Sincerely,

A handwritten signature in black ink, reading 'Christopher Rosario'. The signature is fluid and cursive, with the first name 'Christopher' and last name 'Rosario' clearly distinguishable.

Christopher Rosario
Environmental Scientist I

Record of Communication

Date:	07/05/18	EA Project No.:	15672.01
Communications with:	Ronald Castro, Battalion Chief, GFD		
Telephone No:	671-646-8810		
Communication by:	Christopher Rosario (Email)		

Re: Guam Fire Dept Cases regarding 4 Brownfield sites

Summary of Communication:

Thank you for the information regarding the sites. How do I request for information regarding the Case No. ? Does the case number have information on what exactly happened on the site?
Thanks

Cheers,
Christopher Rosario

From: Ronald Castro [<mailto:ronald.castro@gfd.guam.gov>]
Sent: Friday, June 29, 2018 3:18 PM
To: Rosario, Christopher <crosario@eaest.com>
Subject: Re: FOIA Request to Guam Fire Department

Hafa Adai Mr. Rosario,

As per your request, the only information I was able to retrieve for the four identified properties are as follows:

1. Old GMH - Oka Point, Tamuning:
 - a. Grass fire - Date: Feb. 02, 2018, Case No. 2018-3051
2. Island Girl Power - Dededo
 - a. Unauthorized burning - Date: Jan. 27, 2018, Case No. 2018-1689
3. Old Good Will - Tamuning:
 - a. Structure fire - Date: March 13, 2015, Case No. 2015-4488
4. IBC Lot, Yigo:

No data found

Hope this information assists you in your research.

Regards,

On Tue, Jun 26, 2018 at 3:34 PM, Rosario, Christopher <crosario@eaest.com> wrote:

Good Afternoon Battalion Chief Castro,

My name is Christopher Rosario from EA Engineering, Science and Technology Inc., PBC (EA). EA is an environmental consulting firm submitting a Freedom of Information Act (FOIA) request on behalf of our client, Guam Environmental Protection Agency, under the Brownfields Phase I ESA. Please see the attached file.

Cheers,

Christopher A. Rosario

Scientist I

EA Engineering, Science, and Technology, Inc., PBC

1001 Army Drive, Suite 103

Barrigada, GU 96913-1402

671-646-5231 Ext. 513 (office)

671-487-1640 (cell)

crosario@eaest.com

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Record of Communication

Date: 09/13/14

EA Project No.: 15672.01

Communications with: Al Santos

Telephone No: 671-477-9851

Communication by: Christopher Rosario (Phone & Email)

Re: Island Girl Power Site

Summary of Communication:

I, Christopher Rosario was finally able to get in touch with someone from GHURA after multiple attempts from calling their office. I introduced myself and told him the purpose of the call. I was forwarded to a Mr. Al Santos and discussed the subject property being occupied by Island Girl Power, Knights of Columbus and San Jose Guma housing. Al Santos had to cut the conversation short but mentioned that he had some valuable information regarding a recent Hazardous site survey including maps of the subject site. I asked for his email address and told him that I will be requesting for this information. He agreed and gave me his email. He then asked how was the subject site chosen for the Brownfields program and I responded that it was randomly chosen along with 3 other sites.

After I got off the phone with Mr. Santos I sent him the email as followed:

Greetings Al,

As per our phone conversation, any information regarding the property currently occupied by the 2 non-profit organizations (Island Girl Power & San Jose Guma Housing) including Knights of Columbus would be great. Hazardous material surveys, any history regarding the use of the current building structures, etc. will be useful in helping our company generate an ESA Phase I report for Guam EPA under the Brownfields Program. If possible will you be able to answer this User Questionnaire given as property manager you would know more information about the property? I have cc'd my project manager Bob Shambach to keep him in the loop regarding our Brownfield sites. Thank you for your time Al

Cheers,
Christopher A. Rosario

Scientist I
EA Engineering, Science, and Technology, Inc., PBC
1001 Army Drive, Suite 103
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671-646-5231 Ext. 513 (office)
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Record of Communication

Date: 05/31/2018

EA Project No.:

Communications with: Robert Wolford

Telephone No: (671) 633-2955

Communication by: Bob Shambach & Christopher Rosario

Re: Five homes managed by San Jose Housing “Guma San Jose”

Summary of Communication:

B. Shambach and I had sat down with Robert Wolford and discussed the current housing situation in 5 houses on parcel Lot M05 L10114-NEW-3-R2. Robert Wolford mentioned that five (5) homes are currently occupied by different families and is aware that there are squatters within the vicinity. He had also mentioned to us to get in touch with GHURA to retrieve more information about housing situation.

Record of Communication

Date:	31 May 2018	EA Project No.:	
Communications with:	Ms. Juanita Blaz, Manager of Island Girl Power		
Telephone No:	688-4752		
Communication by:	Robert Shambach		

Re: Brief meeting to obtain information about operations, lease agreement, site visit

Summary of Communication: Meeting at Island Girl Power, Dededo

R. Shambach stopped by Island Girl Power at 1500hrs to schedule a site visit on the property. Upon entering the main building, I was greeted by Ms. Juanita Blaz, manager of Island Girl Power. I explained that EA Engineering is performing a Phase I ESA for the said property. J. Blaz explained that operations of the building is for a thrift store and that renovations were performed during 2012-2013 timeframe.

- The facility and property did have a lead-based paint and asbestos survey performed during the time of renovation and the GHURA has a copy of the report and contract.

J. Blaz showed me around the inside of the building and some of the roof spalling that was happening due to cracks in the roof. Generally the overall condition of the building was good to very good.

I tentatively scheduled a site walk of all buildings and property on Tuesday, 5 June at 930am.

From the Island Girl Power website: <http://www.islandgirlpower.com/index.html>

A local Prevention Program focusing on offering positive activities & role models for young girls and their families. Island Girl Power was originally founded in the Spring of 2002 by Ayuda Foundation (a 501C-3 Non-Profit Organization) including Carlotta Leon Guerrero, Shannon Murphy, Mike Cruz, Cindy Hansen, and Ayuda Board Members. The Guam Program was partially modeled after a U.S. National Initiative that began in 1998 and ended in 2003. IGP continued on with the local program to work on addressing our increasingly high rates of Teen Pregnancy, Suicide, Substance and Sexual abuse rates. IGP is not a Government program and is funded by Cooperative Mini Grants from Public Health (Rape Prevention), Corporate Sponsors (DFS, Community First Credit Union, Etc.), Foundation Grants (Pacifcare), Donations and Fundraising Projects (rummage sales and car washes).



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ABSTRACT OF TITLE

PREPARED FOR: EA ENGINEERING, SCIENCE & TECHNOLOGY,
INC.
1001 ARMY DRIVE, STE. 103, BARRIGADA,
GUAM 96913

ATTENTION: CHRISTOPHER ROSARIO
CONTACT INFORMATION: PHONE: 671-487-1640
EMAIL: crosario@eaest.com

SUBJECT: LOT NO. 5138-2-R3 NEW-1-R2, DEDEDO, GUAM

Period as of: 06/27/2018

As to Basic Lot No. 5138-2-R3NEW, Dededo, Guam, (a consolidation of Lot Nos. 5138-2-3 and 5138-2-R3)

As to Basic Lot No. 5138-2-3, Dededo, Guam

1. **FIRST RECORD:** Possessory Information
INSTRUMENT NO.: 008267
GRANTOR: Island Court of Guam
GRANTEE: The United States of America, represented by the Naval Government of Guam
PROPERTY: Lot No. 5138, Lupog, Agana; Area: 85,817 square meters
DATED: August 22, 1928
RECORDED: August 22, 1938
REMARKS: Grantees acquired lands by cession of Spain, concluded at Paris, December 10, 1998.
2. **TYPE OF INSTRUMENT:** Decree
INSTRUMENT NO.: Agana Volume 21, Page 552-554
GRANTOR: Island Court of Guam
GRANTEE: The United States of America, represented by the Naval Government of Guam, represented by Lieutenant J.C. Heck, United States Navy Attorney General, Naval Government of Guam
PROPERTY: Lot No. 5138, Leepog, Agana; Area: 85,817 square meters
RECORDED: December 27, 1938
REMARKS: Acquired property by cession of Spain, concluded at Paris, on 12/10/1898, no written title to the property having been executed.

3. TYPE OF INSTRUMENT: Notice of Lis Pendens; under Civil Case No. 24-50
INSTRUMENT NO.: 021813
PLAINTIFF: Naval Government of Guam, for and on behalf of the United States of America
DEFENDANT: 335,420 square meters of land, more or less, in the Municipalities of Machanao and Dededo, Island of Guam, Marianas Islands, and Jesus C. Artero, et al.
PROPERTY: Lot No. 5138 (PART), Dededo
DATED: June 28, 1950
RECORDED: July 20, 1950
REMARKS:
4. TYPE OF INSTRUMENT: Declaration of Taking; under Civil Case No. 38-50
INSTRUMENT NO.: 23723
PLAINTIFF: Naval Government of Guam, for and on behalf of the United States of America
DEFENDANT: 4,352 acres of land, more or less, in the Island of Guam, Marianas Islands, and Pedro Martinez Ada, et al.
PROPERTY: Lot No. 5138 (PART), Dededo
DATED: June 30, 1950
RECORDED: September 28, 1951
REMARKS:
5. TYPE OF INSTRUMENT: Notice of Lis Pendens; under Civil Case No. 6-58
INSTRUMENT NO.: 34029
PLAINTIFF: United States of America
DEFENDANT: 676,590.34 square meters of land, more or less, situated in the Municipalities of Asan, Barrigada, Dededo, Piti, Sinajana; Government of Guam, ostensible owner
PROPERTY: Lot No. 5138, Dededo; Area: 00-98-45.00 square meters
DATED: January 20, 1958
RECORDED: January 21, 1958
REMARKS: Route 16 – STA.152/47.34 (Vicinity of POL Line) to Station 226-95.30 (Route 1); Perpetual Easement
6. TYPE OF INSTRUMENT: Declaration of Taking; under Civil Case No. 6-58
INSTRUMENT NO.: 34107
PLAINTIFF: United States of America
DEFENDANT: 676,590.34 square meters of land more or less, situated in the Municipalities of Asan, Barrigada, Dededo, Piti, Sinajana, Yona and Yigo, Island of Guam, Marianas, Islands, Government of Guam, et al.
PROPERTY: Lot No. 5138, Dededo; Area: 00-98-45.00 square meters
DATED: August 9, 1957
RECORDED: February 4, 1958
REMARKS: Route 16 – STA.152/47.34 (Vicinity of POL Line) to Station 226-95.30 (Route 1); Perpetual Easement

7. TYPE OF INSTRUMENT: Disclaimer; under Civil Case No. 6-58
INSTRUMENT NO.: 34819
PLAINTIFF: United States of America
DEFENDANT: 676,590.34 square meters of land more or less, situated in the Municipalities of Asan, Barrigada, Dededo, Piti, Sinajana, Yona and Yigo, Island of Guam, Marianas, Islands, Government of Guam, et al.

PROPERTY: Lot No. 5138, Dededo
DATED: January 17, 1958
RECORDED: July 8, 1958
REMARKS:
8. TYPE OF INSTRUMENT: Judgment; under Civil Case No. 6-58
INSTRUMENT NO.: 34892
PLAINTIFF: United States of America
DEFENDANT: 676,590.34 square meters of land more or less, situated in the Municipalities of Asan, Barrigada, Dededo, Piti, Sinajana, Yona and Yigo, Island of Guam, Marianas, Islands, Government of Guam, et al.

PROPERTY: Lot No. 5138, Dededo; Area: 00-98-45.00 square meters
DATED: July 15, 1958
RECORDED: July 29, 1958
REMARKS:
9. TYPE OF INSTRUMENT: Release Agreement
INSTRUMENT NO.: 36791
GRANTOR: The United States of America (the "Government")
GRANTEE: The Government of Guam ("Landowner")
PROPERTY: Lot No. 5138, Dededo
DATED: July 22, 1959
RECORDED: August 17, 1959
REMARKS: The Government hereby surrenders the premises to the Landowner as of 06/30/1957.
10. TYPE OF INSTRUMENT: Agreement for Purchase of Real Property
INSTRUMENT NO.: 64167
VENDOR: The Government of Guam
VENDEE: The United States of America
PROPERTY: Lot No. 5138, Dededo
DATED: January 19, 1966
RECORDED: January 20, 1966
REMARKS: An easement in perpetuity in, on, over and under the land for the construction and maintenance and removal of guy down wires in connection with electric transmission lines, telephone lines and appurtenances thereto, with the right to remove from said lands, at any time, any or all brush, trees or obstructions of any kind, together with the right on ingress and egress from said lands for the purpose of exercising said easement rights.

11. TYPE OF INSTRUMENT: Grant of Perpetual Easement
INSTRUMENT NO.: 64657
GRANTOR: The Governor of Guam, on behalf of the Government of Guam
GRANTEE: The United States of America
PROPERTY: Lot No. 5138, Dededo
DATED: February 2, 1966
RECORDED: February 8, 1966
REMARKS: For the construction, installation, maintenance and removal of guy down wires in connection with electric transmission lines, telephone lines and appurtenances thereto, with the right to remove from said lands, at any time, any or all brush, trees or obstructions of any kind, together with the right of ingress and egress from said lands for the purpose of exercising said easement rights.
12. TYPE OF INSTRUMENT: Parcelling Survey Map of Lot 5138-2-3 & 5138-2-R3 and Consolidation of Lot Nos. 5138-2-3, 5138-2-2G, 5139-1-1 & 5139-1-2G into Lot 5138-2-3NEW
INSTRUMENT NO.: 389846
MADE BY: Director of Land Management
DRAWING NO.: I4-84T216
LMFY#: LM203FY84
PROPERTY: Lot No. 5138-2-3, Dededo, Guam; Area: 1,157 square meters
DATED: March 14, 1984
RECORDED: September 24, 1987
REMARKS:
13. TYPE OF INSTRUMENT: Parcelling Survey Map of Lot 5138-2-3 & 5138-2-R3 and Consolidation of Lot Nos. 5138-2-3, 5138-2-2G, 5139-1-1 & 5139-1-2G into Lot 5138-2-3NEW
INSTRUMENT NO.: 399464
MADE BY: Director of Land Management
DRAWING NO.: I4-84T216
LMFY#: LM203FY84
PROPERTY: Lot No. 5138-2-3, Dededo, Guam; Area: 1,157 square meters
DATED: June 13, 1988
RECORDED: June 14, 1988
REMARKS:

As to Basic Lot No. 5138-2-R3, Dededo, Guam

14. FIRST RECORD: Possessory Information
INSTRUMENT NO.: 008267
GRANTOR: Island Court of Guam
GRANTEE: The United States of America, represented by the Naval Government of Guam
PROPERTY: Lot No. 5138, Lupog, Agana; Area: 85,817 square meters
DATED: August 22, 1928
RECORDED: August 22, 1938
REMARKS: Grantees acquired lands by cession of Spain, concluded at Paris, December 10, 1998.
15. TYPE OF INSTRUMENT: Decree
INSTRUMENT NO.: Agana Volume 21, Page 552-554
GRANTOR: Island Court of Guam
GRANTEE: The United States of America, represented by the Naval Government of Guam, represented by Lieutenant J.C. Heck, United States Navy Attorney General, Naval Government of Guam
PROPERTY: Lot No. 5138, Leepog, Agana; Area: 85,817 square meters
RECORDED: December 27, 1938
REMARKS: Acquired property by cession of Spain, concluded at Paris, on 12/10/1898, no written title to the property having been executed.
16. TYPE OF INSTRUMENT: Notice of Lis Pendens; under Civil Case No. 24-50
INSTRUMENT NO.: 021813
PLAINTIFF: Naval Government of Guam, for and on behalf of the United States of America
DEFENDANT: 335,420 square meters of land, more or less, in the Municipalities of Machanao and Dededo, Island of Guam, Marianas Islands, and Jesus C. Artero, et al.
PROPERTY: Lot No. 5138 (PART), Dededo
DATED: June 28, 1950
RECORDED: July 20, 1950
REMARKS:
17. TYPE OF INSTRUMENT: Declaration of Taking; under Civil Case No. 38-50
INSTRUMENT NO.: 23723
PLAINTIFF: Naval Government of Guam, for and on behalf of the United States of America
DEFENDANT: 4,352 acres of land, more or less, in the Island of Guam, Marianas Islands, and Pedro Martinez Ada, et al.
PROPERTY: Lot No. 5138 (PART), Dededo
DATED: June 30, 1950
RECORDED: September 28, 1951
REMARKS:

18. TYPE OF INSTRUMENT: Notice of Lis Pendens; under Civil Case No. 6-58
INSTRUMENT NO.: 34029
PLAINTIFF: United States of America
DEFENDANT: 676,590.34 square meters of land, more or less, situated in the Municipalities of Asan, Barrigada, Dededo, Piti, Sinajana; Government of Guam, ostensible owner
PROPERTY: Lot No. 5138, Dededo; Area: 00-98-45.00 square meters
DATED: January 20, 1958
RECORDED: January 21, 1958
REMARKS: Route 16 – STA.152/47.34 (Vicinity of POL Line) to Station 226-95.30 (Route 1); Perpetual Easement
19. TYPE OF INSTRUMENT: Declaration of Taking; under Civil Case No. 6-58
INSTRUMENT NO.: 34107
PLAINTIFF: United States of America
DEFENDANT: 676,590.34 square meters of land more or less, situated in the Municipalities of Asan, Barrigada, Dededo, Piti, Sinajana, Yona and Yigo, Island of Guam, Marianas, Islands, Government of Guam, et al.
PROPERTY: Lot No. 5138, Dededo; Area: 00-98-45.00 square meters
DATED: August 9, 1957
RECORDED: February 4, 1958
REMARKS: Route 16 – STA.152/47.34 (Vicinity of POL Line) to Station 226-95.30 (Route 1); Perpetual Easement
20. TYPE OF INSTRUMENT: Disclaimer; under Civil Case No. 6-58
INSTRUMENT NO.: 34819
PLAINTIFF: United States of America
DEFENDANT: 676,590.34 square meters of land more or less, situated in the Municipalities of Asan, Barrigada, Dededo, Piti, Sinajana, Yona and Yigo, Island of Guam, Marianas, Islands, Government of Guam, et al.
PROPERTY: Lot No. 5138, Dededo
DATED: January 17, 1958
RECORDED: July 8, 1958
REMARKS:
21. TYPE OF INSTRUMENT: Judgment; under Civil Case No. 6-58
INSTRUMENT NO.: 34892
PLAINTIFF: United States of America
DEFENDANT: 676,590.34 square meters of land more or less, situated in the Municipalities of Asan, Barrigada, Dededo, Piti, Sinajana, Yona and Yigo, Island of Guam, Marianas, Islands, Government of Guam, et al.
PROPERTY: Lot No. 5138, Dededo; Area: 00-98-45.00 square meters
DATED: July 15, 1958
RECORDED: July 29, 1958
REMARKS:

22. TYPE OF INSTRUMENT: Release Agreement
INSTRUMENT NO.: 36791
GRANTOR: The United States of America (the "Government")
GRANTEE: The Government of Guam ("Landowner")
PROPERTY: Lot No. 5138, Dededo
DATED: July 22, 1959
RECORDED: August 17, 1959
REMARKS: The Government hereby surrenders the premises to the Landowner as of 06/30/1957.
23. TYPE OF INSTRUMENT: Agreement for Purchase of Real Property
INSTRUMENT NO.: 64167
VENDOR: The Government of Guam
VENDEE: The United States of America
PROPERTY: Lot No. 5138, Dededo
DATED: January 19, 1966
RECORDED: January 20, 1966
REMARKS: An easement in perpetuity in, on, over and under the land for the construction and maintenance and removal of guy down wires in connection with electric transmission lines, telephone lines and appurtenances thereto, with the right to remove from said lands, at any time, any or all brush, trees or obstructions of any kind, together with the right on ingress and egress from said lands for the purpose of exercising said easement rights.
24. TYPE OF INSTRUMENT: Grant of Perpetual Easement
INSTRUMENT NO.: 64657
GRANTOR: The Governor of Guam, on behalf of the Government of Guam
GRANTEE: The United States of America
PROPERTY: Lot No. 5138, Dededo
DATED: February 2, 1966
RECORDED: February 8, 1966
REMARKS: For the construction, installation, maintenance and removal of guy down wires in connection with electric transmission lines, telephone lines and appurtenances thereto, with the right to remove from said lands, at any time, any or all brush, trees or obstructions of any kind, together with the right of ingress and egress from said lands for the purpose of exercising said easement rights.

25. TYPE OF INSTRUMENT: Parcelling Survey Map of Lot 5138-2-3 & 5138-2-R3 and Consolidation of Lot Nos. 5138-2-3, 5138-2-2G, 5139-1-1 & 5139-1-2G into Lot 5138-2-3NEW
- INSTRUMENT NO.: 389846
MADE BY: Director of Land Management
DRAWING NO.: I4-84T216
LMFY#: LM203FY84
PROPERTY: Lot No. 5138-2-R3, Dededo, Guam; Area: 24,073 square meters
DATED: March 14, 1984
RECORDED: September 24, 1987
REMARKS:
26. TYPE OF INSTRUMENT: Parcelling Survey Map of Lot 5138-2-3 & 5138-2-R3 and Consolidation of Lot Nos. 5138-2-3, 5138-2-2G, 5139-1-1 & 5139-1-2G into Lot 5138-2-3NEW
- INSTRUMENT NO.: 399464
MADE BY: Director of Land Management
DRAWING NO.: I4-84T216
LMFY#: LM203FY84
PROPERTY: Lot Nos. 5138-2-3 & 5138-2-R3, Dededo, Guam; Area: 25,230 square meters
DATED: June 13, 1988
RECORDED: June 14, 1988
REMARKS:
21. TYPE OF INSTRUMENT: Memorandum
- INSTRUMENT NO.: 402469
GRANTOR: Director of Land Management
GRANTEE: The Governor
PROPERTY: Lot No. 5136-2-R3, Dededo; Area: 24,073 square meters
DATED: August 11, 1988
RECORDED: August 22, 1988
REMARKS: Subject: Administrative Transfer of Government Land for Guam Rehabilitation Center (NOTE: See Instrument No. 743206 for correction of Lot Description.)
22. TYPE OF INSTRUMENT: Lease Agreement
- INSTRUMENT NO.: 496124
GRANTOR: The Government of Guam
GRANTEE: Guam Rehabilitation and Workshop Center, Inc., a not for profit Guam corporation
PROPERTY: Lot No. 5138-2-R3 (portion), Dededo.
DATED: May 25, 1993
RECORDED: October 12, 1993
REMARKS: For a term of 20 years beginning on June 1, 1993 and ending on May 31, 2013.

23. TYPE OF INSTRUMENT: Grant of Right-of-Way for the Erection and Maintenance of Power Lines, Poles, Wires, Cables and Underground Conduits

INSTRUMENT NO.: 608568

GRANTOR: Peter R. Nelson (Guam Rehab)

GRANTEE: Guam Power Authority

PROPERTY: Lot No. 5138-2-R3, Dededo.

DATED: July 26, 1999

RECORDED: August 19, 1999

REMARKS: A 10' x 25' foot strip of land extending partially across Lot No. 5138-2-R3, Dededo.

24. TYPE OF INSTRUMENT: Memorandum

INSTRUMENT NO.: 743206

GRANTOR: Director, Department of Land Management

GRANTEE: Government of Guam

PROPERTY: Lot No. 5138-2-R3, Dededo

DATED: July 18, 2006

RECORDED: September 22, 2006

REMARKS: The lot description identified on Document No. 402469 is in error and should read Lot No. 5138-2-R3 instead of Lot No. 5136-2-R3.

Affecting Lot No. 5138-2-R3NEW-1-R2, Dededo, Guam

25. TYPE OF INSTRUMENT: Consolidation of Basic Lot 5138-2-3 and Lot 5138-2-R3 into Lot 5138-2-R3New and Parcelling of Lot 5138-2-R3 NEW into Lot 5138-2-R3 NEW-1 & Lot 5138-2-R3 NEW-2

INSTRUMENT NO. 418466

MADE BY: Director of Land Management

DRAWING NO.: 8104

LMFY#: LM079FY89

PROPERTY: Lot No. 5138-2-R3 NEW-1, Dededo; Area: 23,087 square meters/248,501 square feet

DATED: March 17, 1989

RECORDED: July 20, 1989

REMARKS: Vocational Rehabilitation Center Site; Existing pavement, (2) existing butler type, existing concrete building, semi concrete building, car-wash situated on lot.

26. TYPE OF INSTRUMENT: Parcelling Survey Map of Lot 5138-2-R3 NEW-1

INSTRUMENT NO. 433062

MADE BY: Dir. Dept. of Land Management

DRAWING NO.: I4-89T336

LMFY#: LM314FY89

PROPERTY: Lot No. 5138-2-R3 NEW-1-R2, Dededo; Area: 11,168 square meters/120,215 square feet

DATED: April 23, 1990

RECORDED: April 24, 1990

REMARKS: Vocational Rehabilitation Center Area; Existing A.C. pavement situated on lot.

27. TYPE OF INSTRUMENT: Administrative Transfer and Jurisdiction
INSTRUMENT NO.: 743207
GRANTOR: Director, Department of Land Management
GRANTEE: The Department of Integrated Services
PROPERTY: Lot No. 5138-2-R3NEW-1-R2, Dededo; Area: 11,168 square meters/120,215 square feet
DATED: August 22, 2006
RECORDED: September 26, 2006
REMARKS: Memorandum attached as Exhibit "A".

28. TYPE OF INSTRUMENT: Affidavit of Property Zone Change By Public Law
INSTRUMENT NO.: 903369
MADE BY: Michael J.B. Borja, Director, Department of Land Management
PROPERTY: Lot No. 5138-2-R3-NEW-1-R2, Dededo
DATED: February 5, 2017
RECORDED: February 20, 2017
REMARKS: Public Law 33-227, as shown on Exhibit "A" authorized the change of the land use zone from One-Family Dwelling Zone (R1) to Commercial Zone (C) enacted on January 9, 2017.

Territorial Real Estate taxes for the years 2014 thru 2017 was credited under Account No. 10000555770000, LGI Pacific Guam Inc., Land; RE: Lot No. 5138-2-R3-NEW-1, Dededo.

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A. TYPE OF INSTRUMENT: Guaranteed Claim
GUARANTEED CLAIM NO.: 3001
ESTATE NO.: 3922/SUBURBAN
ISSUED TO: The United States of America
PROPERTY: Lot No. 5138, Agana




This document is not a title insurance policy, a title insurance commitment and/or a binder. The liability under this document is limited to \$500.00.

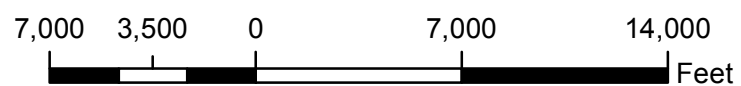
PACIFIC AMERICAN TITLE INS. & ESCROW CO.

By: 
Authorized Signature


End.....mm



- Legend**
-  Project Site Location
 -  Barrigada Limestone
 -  Geologic Formations











COORDINATE/REFERENCE: WGS_1984_UTM_Zone_55N: IMAGERY 2016

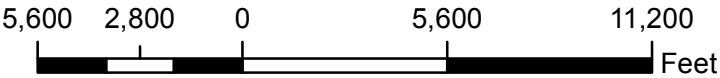
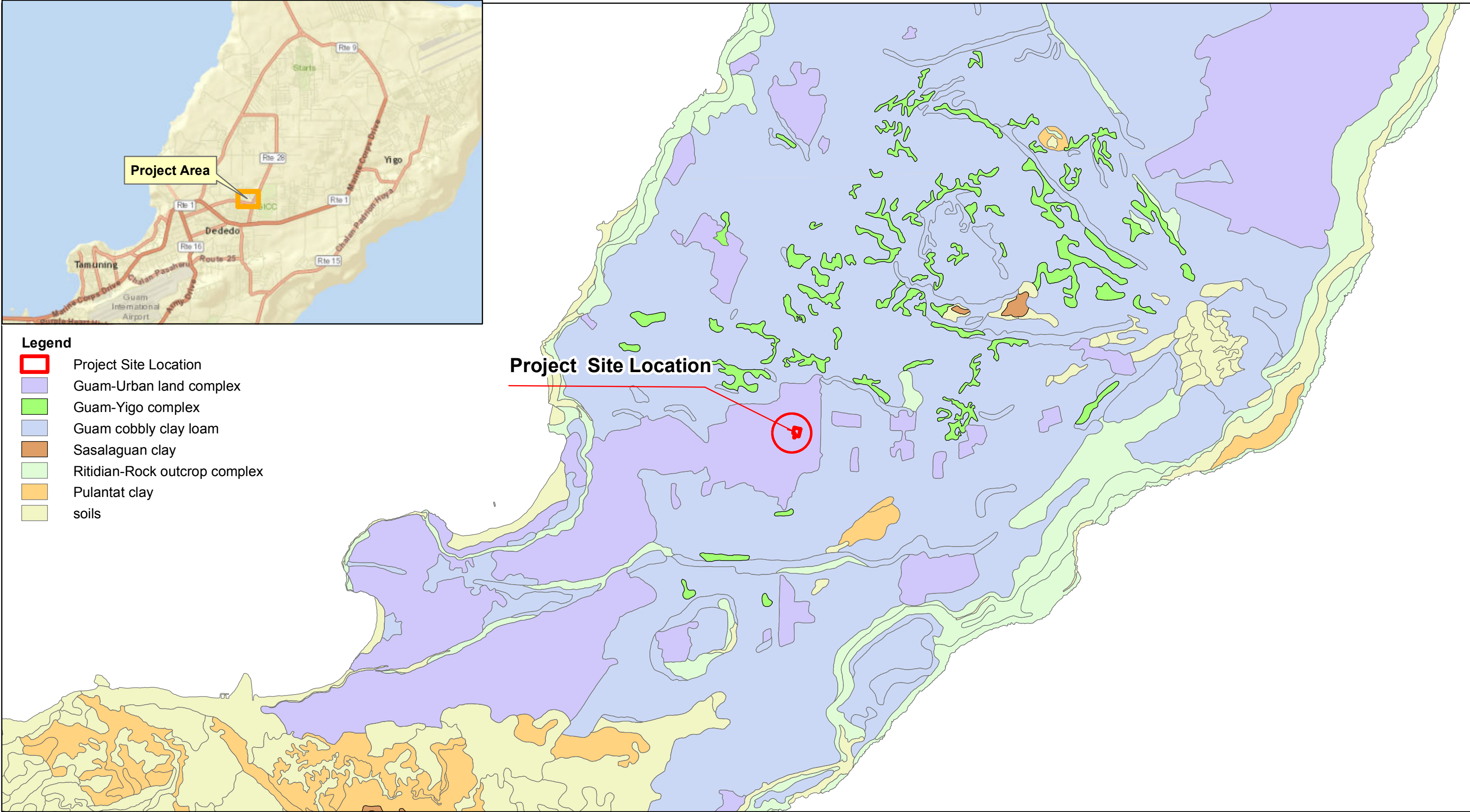
 EA Engineering, Science, and Technology, Inc., PBC 1001 Army Drive, Suite 103, Barrigada, 96913-1402 Telephone: (671) 646-5231 Facsimile: (671) 646-5230		Project No./TO.:RFP No. 2015-001 Guam EPA Brownfields 2017 Phase I ESAs	
		Figure 1 Geologic Map Phase I Environmental Site Assessment Island Girl Power	
Drawing No. Fig 1. Project Site Location	Date: 09/14/2018	Drawn By: TChargualaf	EA Project No. 1567201




Legend

-  Project Site Location
-  Guam-Urban land complex
-  Guam-Yigo complex
-  Guam cobbly clay loam
-  Sasalaguan clay
-  Ritidian-Rock outcrop complex
-  Pulantat clay
-  soils

Project Site Location



COORDINATE/REFERENCE: WGS_1984_UTM_Zone_55N: IMAGERY 2016

 <div>EA Engineering, Science, and Technology, Inc., PBC 1001 Army Drive, Suite 103, Barrigada, 96913-1402 Telephone: (671) 646-5231 Facsimile: (671) 646-5230</div>	Project No/TO.:RFP No. 2015-001 Guam EPA Brownfields 2017 Phase I ESAs		
	Figure 2 Soil Composition Map Phase I Environmental Site Assessment Island Girl Power		
Drawing No. Fig 1. Project Site Location	Date: 09/14/2018	Drawn By: TChargualaf	EA Project No. 1567201



U.S. Fish and Wildlife Service
National Wetlands Inventory

Island Girl Power



October 3, 2018

Wetlands

Estuarine and Marine Deepwater	Freshwater Emergent Wetland	Lake
Estuarine and Marine Wetland	Freshwater Forested/Shrub Wetland	Other
	Freshwater Pond	Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Appendix F

Resumes of the Environmental Professional(s)

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Robert P. Shambach, P.G.

Project Manager/Geologist

Environmental Professional

Mr. Shambach is a registered Professional Geologist with more than 24 years of experience working on environmental projects for the public sector and government agencies throughout the United States, Saipan, and Guam. He served as the Guam Operations Profit Center Manager from 2010 to 2013, and has managed a variety of indefinite delivery/indefinite quantity projects under contracts for federal and local government, as well as industrial/commercial clients.

Mr. Shambach currently serves as the Guam office manager. His experience also includes multi-year basic ordering agreements, which he is responsible for overall schedule and budget compliance, and technical performance of EA personnel working from EA's Guam office.

Working in EA's Pacific Business Unit, Mr. Shambach's project responsibilities include operations management and supervision of site investigations with extensive experience at sites containing unexploded ordnance and munitions and explosives of concern. Over the past 19 years, he has developed experience with petroleum-contaminated site investigations, mitigation, and monitored natural attenuation evaluation. Mr. Shambach has a strong background in karst geology, including groundwater monitoring well installation and testing, air injection and monitoring wells, groundwater and soil sampling, geophysical surveys, soil gas surveys, air quality monitoring, asbestos building inspection and sampling, and report writing. His field experience also encompasses environmental sampling throughout the eastern and central United States at former U.S. Naval, Army, and Air Force bases as well as commercial and industrial facilities. For the past 13 years, he has been active in conducting marketing meetings, personnel interviews, and client presentations.

Professional Experience

Management/Business Development—Responsible for project and personnel management, including managing 5-10 employees, providing staff allocations, scheduling, utilization, and general office management. Responsibilities include client contact, sales and marketing, work schedule projections, resource allocation, report generation, and budget tracking. Interacts with the client for purposes of maintaining client relations, obtaining new work orders, providing project updates, scheduling field activities, obtaining site-specific information, and change order/invoice preparation. Additionally, project management responsibilities include management of various types of projects worth in excess of \$1-1.5 million annually, with office annual revenue of more than \$2.5 million.

Project/Operations Manager—Managed Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) remedial investigation (RI)/feasibility study (FS) and Resource Conservation and Recovery Act (RCRA) projects exceeding \$1 million at remote locations throughout Guam and Saipan. Successfully managed over 40 Installation Restoration Program (IRP) site investigations, monitored natural attenuation projects, RCRA site investigations and closures, and preliminary assessment/site investigation projects for 33 sites. Completed several styles of reports including No Further Response Action Planned, Engineering Evaluation/Cost Assessment,

Qualifications

Education

B.S.; Bloomsburg University; Geology; 1994
B.S.; Bloomsburg University; Earth Space Science; 1994

Registrations/Certifications

Professional Geologist—PA (No. PG004866)
Certified Manager of Integrated Solid Waste Management Systems
Construction Quality Management for Contractors (U.S. Army Corps of Engineers); February 2016

Specialized Training

OSHA 40-Hour Hazardous Waste Health and Safety Training; 1994
OSHA 8-Hour Hazardous Waste Health and Safety Training Recertification; 2018
OSHA 8-Hour Hazardous Waste Advisory and Supervision Training
EA Project Manager Training; 2013
CPR and First Aid Training; February 2017

Professional Affiliations/Appointments

Society of American Military Engineers, Guam
Post Board of Directors
Recycling Association of Guam, Officer
Solid Waste Association of North America, Pacific Basin Chapter, Vice President
Dededo Soccer Club, Youth Coach/Technical Director

Experience

Years with EA: 24 Total Years: 24

RI/FS Reports, RCRA Closure Reports, monitored natural attenuation reports, plume delineation reports, and Comprehensive Contaminant Assessment reports. Regular interface with regulatory agencies for project updates and decision-making is common.

Remedial Investigation/Feasibility Studies—Managed RIs at over 40 National Priorities List sites performed under CERCLA and Air Force Center for Engineering and the Environment IRP guidance. These projects involved site reconnaissance, geophysical surveys, site personnel interviews, real property record searches, historical records review, report preparation, project proposals, project cost estimating, terrestrial and marine environment investigations, monitoring well drilling, and required media analyses of soil and groundwater samples. The investigations addressed numerous chemicals of concern in various media and evaluated exposures to assess human health and ecological risk.

Environmental Assessments—Performed investigative activities that have included site reconnaissance, site personnel interviews, real estate searches, historical records review, report preparation project proposal, and project cost estimating. Performed work on Phase I and Phase II environmental baseline surveys under the IRP at former U.S. Air Force properties scheduled for real estate transactions in the Pacific Region. Also performed Solid Waste Management Unit Release Assessments at 76 sites with responsibilities ranging from scheduling, field management, work plan development, cost estimation sample collection, and site evaluation. Initiated cost saving measures at a site on Guam using portable auger and prepacked wells screens instead of using a subcontracted hollow-stem auger and traditional well. Received Guam U.S. Environmental Protection Agency concurrence to proceed with prepacked well installations at the site.

Solid Waste Management Unit Investigations—Managed the field effort of over 30 solid waste management unit sites. These projects involved surface and subsurface investigations, and required analyses of soil, wastewater, and sludge samples.

Environmental Compliance—Conducted biannual stormwater sampling in support of Air Force compliance with permitted underground injection wells. Performed sampling and participated in completing work plan, quality assurance project plan, compliance report, identifying non-compliant wells and recommending remedial and procedural adjustments to maintain compliance status. Managed the re-engineering of stormwater runoff at a covered percolation basin to eliminate the need for permitting of injection control wells.

Asbestos Hazard Emergency Response Act Asbestos Building Inspector—Performed inspections and sampling of more than 50 buildings throughout several military installations in the Pacific Region. Completed an Asbestos Survey Reinspection Report for updating the installation database.

Shallow Groundwater Monitoring Well Installation and Sampling—Managed the completion of groundwater monitoring wells (10-100 ft deep), well development, and conducted groundwater sampling. Evaluated groundwater and soil conditions for potential environmental concerns at commercial and industrial facilities throughout the northeastern United States. Responsibilities included well installation, groundwater and soil quality, and determination of hydrogeologic conditions in glacial till aquifers. Installed shallow groundwater wells in South Dakota, throughout the eastern United States, and Guam. Methods of sampling included utilization of low flow peristaltic pumps, variable speed pumps, and hand bailers.

Deep Groundwater Monitoring Well Installation and Sampling—Installed deep groundwater monitoring wells and open boreholes (300-700 ft deep) in the Northern Guam Lens portion of the island of Guam. Conducted field geologic and geophysical logging of boreholes and exhibited proficiency in describing coralline limestone geology in northern Guam. Monitoring wells averaged 500 ft deep and were generally drilled to basal and parabasal freshwater aquifers. Has experience in supervision of drilling contractors using air rotary and dual-wall reverse air rotary drilling methodology and provided oversight for containment of drilling fluids and cuttings from borings. Collected groundwater samples from monitoring wells located on Guam using low-flow Bennett piston pumps.

Air Injection and Monitoring Well Installation—Managed the completion of air injection and monitoring wells for in situ remediation of an abandoned underground storage tank containing fuels and solvents. The wells were completed in porous limestone bedrock to a depth of 300 ft below the surface. Three 1.5-in.-diameter threaded pipes were placed in each of the boreholes based on concentrations of volatile organic compounds. Also installed a biosparge system to assess applicability at a petroleum-impacted site in southern Guam.

Geophysical Investigations—Performed electromagnetic geophysical investigations at more than 20 RI sites in a variety of geologic conditions throughout the eastern United States and Guam. Some of the geophysical surveys were performed to identify areas of unexploded ordnance and munitions and explosives of concern.

Field Task Management—Field managed several CERCLA RI/FS and RCRA projects throughout the eastern United States and Guam. Managed several site investigations and provided oversight to subcontractors during investigation of CERCLA and RCRA sites. Successfully managed IRP site investigations in five operable units from start to final report phase. Completed several styles of reports including No Further Remedial Action Planned, Engineering Evaluation/Cost Assessment, RI/FS Reports, Comprehensive Contaminant Assessments, and Site Closure Reports.

EA Project Experience

Brownfield Assessment Phase II Environmental Site Assessment, Former Cowtown and Former Radar Station Sites, Commonwealth of the Northern Mariana Islands; Commonwealth of the Northern Mariana Islands Department of Public Lands; Project Manager/Environmental Professional—Completed Work Plan, Sampling and Analysis Plan, and Site Health and Safety Plan for the project. Coordinated task with the field personnel and unexploded ordnance technicians onsite. Field activities included Global Positioning System surveying, oil-water separator characterization and soil sampling, surface soil sampling at multiple decision units within the project site, and prepared soil samples for shipment to an off-island laboratory.

Project Date: September 2017 – Present

EA Project – 63223.01; Project Manager – Bob Shambach

Hazardous Materials Survey for Tanguisson Power Plant and Dededo Diesel Power Plant; Tumon/Dededo, Guam; Guam Power Authority; Project Manager—Conducted soil sampling at the Tanguisson Power Plant and Dededo Diesel Power Plant for polychlorinated biphenyls. Prepared preliminary and final hazardous materials survey report. Responsibilities also included pre-sampling activities, preparation and shipping of soil samples in accordance with all quality assurance/quality control guidelines.

Project Date: March–September 2017

EA Project No. – 6315601; EA Project Manager – Robert Shambach

Island-Wide Well Site Rehabilitation and New Well Site Development; Guam Waterworks Authority; Senior Geologist—Provide geology oversight and construction inspection during the rehabilitation of five deep Guam Waterworks Authority water wells on the Northern Guam Lens Aquifer. Responsibilities include confirmation of well location following the design plan, ensuring drilling plan is in conformance with the design, monitoring condition of the drill rig, conducting meetings with regulators (Guam EPA), observing downhole video logs of new boreholes, observing and reviewing step drawdown and pump test data and results, attending meetings with construction contractor, design team, and client for any proposed changes to original design.

Project Date: 2016 – January 2018

EA Project No. – 1533401; EA Project Manager – Tressie Word

Brownfield Assessment Phase I/II Environmental Site Assessment, Masalog Ammunition Depot, Pina, Tinian Commonwealth of the Northern Mariana Islands; Commonwealth of the Northern Mariana Islands Department of Public Lands; Project Manager/Environmental Professional—Researched and assisted with the Phase I Environmental Site Assessment report, performed site reconnaissance of former munitions site with munitions avoidance staff, completed all Freedom of Information Act requests, reviewed report and recognized environmental conditions at the site, and assisted with compiling Phase I Environmental Site Assessment report. Completed Work Plan, Sampling and Analysis Plan, and Site Health and Safety Plan for the project. Coordinated task with the field personnel and unexploded ordnance technicians onsite. Field activities included Global Positioning System

surveying, munitions avoidance during survey line cutting and surface soil sampling at 5 decision units within the project site, and prepared soil samples for shipment to an off-island laboratory.

Project Date: November 2015 – Present

EA Project – 6301901; Project Manager – Bob Shambach

Tier 2 Landfill Gas Sampling-NMNO; Layon Municipal Landfill; Gershman, Brickner & Bratton, Inc.; Inarajan, Guam; Project Manager—Project Manager with the installation of temporary direct-push gas probes, sample collection using summa canisters, shipping samples to laboratories, and providing non-methane organic compound report.

Project Date: April–October 2015

EA Project No. – 6239216; EA Project Manager – Robert Shambach

Guam Drinking Water Source Assessment and Protection Program and Wellhead Protection Plan; Brown and Caldwell and Guam Waterworks Authority; Project Manager—Project manager for producing the Guam Waterworks Authority wellhead protection plan for 120 drinking water supply wells. The Drinking Water Source Assessment and Protection document consisted of preparing a well data sheet of the well's physical characteristics, determining the geology of the surrounding area, recommending management practices, and performing a vulnerability assessment to determine how vulnerable each well is to each nearby potentially contaminating activity or source. This work entailed organizing field data, and researching reports from Guam Waterworks Authority and the Water and Environmental Research Institute of the Western Pacific to obtain information for each well. The vulnerability assessment incorporated factors such as the possibly contaminating source's degree of proximity to the well, the inherent risk associated with it, and the physical barrier effectiveness of the well. Other responsibilities are comprised of reviewing and editing Geographic Information System figures and careful ranking of the vulnerability to potentially contaminating activities among the wells. Lastly, prepared a PowerPoint presentation for a meeting attended by technical experts from Guam Waterworks Authority, Guam Environmental Protection Agency, Naval Facilities Engineering Command, University of Guam, Water and Environmental Research Institute, and U.S. Department of Agriculture/Natural Resources Conservation Service. This gave a summary of the work executed and the results, which was well received and other agencies are planning to use the data from the report as a tool to for future land use planning.

Project Date: May 2014 – June 2015

EA Project No. – 1495306; EA Project Manager – Bob Shambach

Agat Wastewater Treatment Plant Evaluation Phase I Environmental Site Assessment; Agat, Guam; Brown & Caldwell; Project Manager—Completed all field and report figures and performed a follow-up Freedom of Information Act request. Assisted with completion of the final Phase I environmental site assessment report.

Project Date: September 2013 – June 2014

EA Project No. – 1495304; EA Project Manager – Bob Shambach

Guam Commercial Port Modernization Program, Environmental Investigation; U.S. Department of Transportation Maritime Administration; Guam; Project Manager—Project manager for environmental assessment in support of the design for the modernization of the essential Jose D. Leon Guerrero Port facility per a \$400 million Indefinite Delivery/Indefinite Quantity contract. Investigative activities included performing soil borings and test pits for the collection of subsurface soil and groundwater to assess the volume of potentially impacted soils in areas scheduled for subsurface construction at the port. A hazardous material survey, installation of pump test wells and piezometers, and abandonment of wells was also included with the project. Calculations of estimated volumes and costs to remediate and dispose of impacted material was included in the assessment report.

Project Date: August–December 2013

EA Project No. – 1477909; EA Project Manager – Robert Shambach

Layon Landfill Water Quality Monitoring; Gershman, Brickner & Bratton, Inc.; Inarajan, Guam; Project Manager—Project Manager for Guam's Layon Landfill compliance water quality monitoring. Included two rounds of detection monitoring by sampling of groundwater and surface water, quarterly landfill gas monitoring and

reporting, sub-drain tank monitoring, and stormwater sample collection. Detection monitoring reports were completed and submitted within 90 days of sampling event.

Project Date: *October 2012 – October 2013*

EA Project No. – 6239208; EA Project Manager – Robert Shambach

Dededo Solid Waste Transfer Station; Gershman, Brickner & Bratton, Inc.; Dededo, Guam; Senior Geologist—Phase II environmental site assessment at the Dededo Solid Waste Transfer Station and former recycling/processing facility. Field activities included conducting a detailed site inventory of surface debris, Global Positioning System survey, surface and subsurface soil sampling, and waste characterization of soil and waste oil. Reporting of the waste volume and recommendations for removal and disposal were included. Land area will be remediated and a new waste transfer station built.

Project Date: *April 2013 – August 2016*

Agat Transfer Station and Santa Ana Dump Site; Gershman, Brickner & Bratton, Inc.; Agat, Guam; Senior Geologist—Phase II environmental site assessment at the Agat Transfer Station and former Santa Ana dump site. Field activities included conducting a detailed site inventory of surface debris, Global Positioning System survey, surface and subsurface soil sampling, waste characterization, and cultural resources survey. Provided input and review of data quality objectives, review of field data, and meetings with client.

Project Date: *November 2012 – January 2016*

EA Project No. – 6239209

Soil Removal and Remediation at Site 75C and Site 77; EATC Joint Venture (U.S. Navy); Andersen Air Force Base, Yigo, Guam; Senior Geologist—Performed field activities to include surface and subsurface soil sampling, Global Positioning System survey, excavation of soils containing contaminants of concern, and treatment using triple super phosphate RCRA hazardous soils to stabilize the leachability of constituents for disposal at the base consolidation unit. Several areas were also screened for munitions and explosives of concern.

Project Date: *September 2011 – September 2014*

EA Project No. – 6243805; EA Project Manager – Scott Moncrief

Moffatt & Nichol Engineers; P-566 Emergent Repair Facility, Hazardous Materials Survey; U.S. Naval Facilities Command Pacific Naval Base Guam, Agat, Guam; Environmental Technician/Scientist/Project Manager—Project Manager for the hazardous materials assessment of materials at a submarine warfare emergent repair facility to determine if hazardous items need to be included in design criteria. All painted items were screened for lead-based paint using an x-ray fluorescence detector. Materials were also assessed for polychlorinated biphenyls containing oils, asbestos-containing materials, and other potentially hazardous materials. All surveys were described and results included in a Hazardous Materials Report.

Project Date: *June 2013 – December 2014*

EA Project No. – 6236511; EA Project Manager – Robert Shambach

Moffatt & Nichol Engineers; P-518/P-519 X-Ray Wharf Hazardous Materials Survey; U.S. Naval Facilities Command Pacific Naval Base Guam, Agat, Guam; Environmental Technician/Scientist/Project Manager—Project Manager for the hazardous materials assessment of materials at X-Ray wharf to determine if hazardous items need to be included in design criteria. All painted items were screened for lead-based paint using an x-ray fluorescence detector. Materials were also assessed for polychlorinated biphenyls containing oils, asbestos-containing materials, and other potentially hazardous materials. All surveys were described and results included in a Hazardous Materials Report.

Project Date: *October 2012 – December 2013*

EA Project No. – 6236508; EA Project Manager – Robert Shambach

Power Plant 1 and 2 Site Investigation, Commonwealth Utilities Commission, Saipan, Commonwealth of the Northern Mariana Islands; Project Manager—Managed the site investigation and EA field staff to ensure adherence to the work plan. Investigation included installation of 20 borings and shallow wells, collection of soil samples and groundwater samples, product recovery, and report preparation.

Project Date: *June 2010 – May 2011*

EA Project No. – 6232503; EA Project Manager – R. Shambach

Landfill Gas Monitoring Point Installation, Inarajan, Guam; Gershman, Brinker and Bratton; Senior Geologist/Project Manager—Project manager for installation of the first three perimeter landfill gas wells around Cells 1 and 2 at the new Layon Landfill. This included oversight of drillers while performing well installation and monitoring using an air quality meter. Also responsible for the reporting and analysis of analytical data.

Project Date: January–October 2011

EA Project No. – 6239204; EA Project Manager – Robert Shambach

EATC Joint Venture B-2 Crash Site Andersen Air Force Base Yigo, Guam; U.S. Air Force Center for Engineering and the Environment; Senior Geologist—Responsible for reviewing field data and reporting of daily operation of vapor extraction unit. Provided information to client and tracked property usage and operation and maintenance of equipment.

Project Date: June 2011 – April 2013

EA Project No. – 6243802; EA Project Manager - Scott Moncrief

Leaking Underground Storage Tank Phases 1 and 2, Division of Environmental Quality; Commonwealth of the Northern Mariana Islands; Environmental Professional—Provided technical assistance for Division of Environmental Quality Leaking Underground Storage Tank Phases 1 and 2 Program in Saipan and Rota for the Division of Environmental Quality. Responsibilities included technical support for numerous Phase I and Phase II site remediation projects.

Project Date: September 2010 – June 2011

EA Project – 6248202; EA Project Manager – Tressie Word

Hazardous Materials Survey, Apra Harbor Wharves (Tango, Uniform, Victor); Naval Base, Guam; Moffatt & Nichol Engineers; Project Manager—Project Manager for the hazardous materials assessment of materials at the wharves to determine if hazardous items need to be included in design criteria. All painted items were screened for lead-based paint using an x-ray fluorescence detector. Materials were also assessed for polychlorinated biphenyls containing oils, asbestos-containing materials, and other potentially hazardous materials. All surveys were described and results included in a Hazardous Materials Report.

Project Date: June 2009 –June 2010

EA Project No. – 6232601; EA Project Manager – Robert Shambach

GBB-Layon Landfill Baseline Groundwater Monitoring Program, Inarajan, Guam; Gershman, Brinker and Bratton; Senior Geologist/Project Manager—Project manager for finalizing of the Site-Specific Groundwater Monitoring Plan that included groundwater monitoring well installation, development and monitoring using dedicated sampling pumps and abandonment of some wells, collecting stream surface water samples; water level transducer installation and monitoring, installation and monitoring of rain gauge system. Also responsible for the reporting and analysis of analytical data.

Project Date: November 2009 – March 2011

EA Project No. – 6239201; EA Project Manager – Robert Shambach

URS Corporation- Shell Guam Phase II-Shell Terminal and Pipeline; URS Corporation; Agat, Guam; Project Manager—Project Manager for work involving the collection of soil samples using hand augers and split spoon sampling equipment, packing and shipping of samples at a petroleum storage facility. The work also included installation of groundwater monitoring wells, well development and sampling using hand bailers and low flow peristaltic pumps. Product recovery and volume tracking in designated monitoring wells throughout the terminal complex.

Project Date: 2010

EA Project – 1467901; EA Project Manager – Robert Shambach

Brownfields Phase I Environmental Site Assessment, Saipan, Commonwealth of the Northern Mariana Islands; Department of Environmental Quality; Project Manager/Responsible Professional—Activities included performance of Phase I environmental site assessment in accordance with American Society for Testing and Materials E 1527-05 (Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process) at two sites and consisted of a review of current and historic activities and conditions at the

properties and adjacent properties, including a non-intrusive visual inspection of the subject sites; review of local, state, and federal regulatory database records; review of available historic records; and a survey of adjacent land uses. Concluded the Phase I environmental site assessment with a final report for each of the sites.

Project Date: August 2009 – May 2010

EA Project No. – 6236001; EA Project Manager – Robert Shambach

Long-Term Groundwater Monitoring; Andersen Air Force Base, Yigo, Guam; Air Force Center for Engineering and the Environment (Subcontract to CAPE Environmental Management); Senior Geologist—Provided Senior Technical Review and support of the Long-Term Groundwater Monitoring Program for MARBO Annex, Northwest Field, and Main Base Operable Units at Andersen Air Force Base, Guam. Responsibilities included ensuring that all aspects of the sampling of approximately 50 groundwater monitoring, open borehole, and production wells were in compliance with the work plan and sampling and analysis plan documents. Attended remedial program meeting updates and weekly meetings with the Air Force client.

Project Date: 2010 – April 2011

EA Project – 6232101; EA Project Manager – Chip Brown

Preliminary Assessments/Site Investigations for 10 IRP Sites, Andersen Air Force Base, Guam; Air Force Center for Engineering and the Environment; Project Manager—Project manager for a \$1.5 million preliminary assessment/site investigation to determine if chemicals of potential concern are present at 10 sites (18 subsites) following CERCLA process. Management of sites that included subcontractor oversight, subcontractor procurement, development of work plans, sampling and analysis plans, standard operating procedures, and preliminary assessment/site investigation reports.

Project Date: March 2006 – May 2008

EA Project No. – 2970014; EA Project Manager –Robert Shambach

Old Seaman's Club D-Line Release Assessment; Shell Guam, Inc.; Project Manager—Project Manager for the assessment of groundwater after the release of petroleum from a distribution line leak. Used an excavator to complete test pits for the assessment and collection of groundwater grab samples.

Project Date: December 2005 – 2007

EA Project No. – 1433904; EA Project Manager –Robert Shambach

Petroleum Plume Delineation – Shell Guam Agat Terminal; Shell Guam, Inc.; Project Manager—Project Manager for the delineation and lateral extent of petroleum constituents in shallow groundwater at three plumes. Used cone penetrometer, prepacked well screens, portable hydraulic auger, and low-flow pump technology to complete the project with minimal budget. Project included a pilot study for use of biosparging technology to add oxygen to an anaerobic media.

Project Date: November 2005 – January 2009

EA Project No. – 1433907; EA Project Manager –Robert Shambach

RCRA investigations under a Voluntary Corrective Action Plan, Agat, Guam; Shell Guam, Inc.; Geologist—Field task manager for conducting drilling and report writing for several Solid Waste Management Unit sites following the RCRA process. Provided site support and oversight of subcontractors, collected boring samples during the investigation. Supported author for Corrective Action Completed Clean Closure Report for several sites on Guam.

Project Date: May 2002 – 2004

EA Project No. – 1379701; EA Project Manager – Toraj Ghofrani

Product Recovery and Monitored Natural Attenuation Sampling and Performance Evaluation, Agat, Guam; Shell Guam, Inc.; Project Manager—Project Manager for product recovery and monitored natural attenuation at several areas of concern in southern Guam. Biannually sampling for monitored natural attenuation parameters since May 2002. Performed monitoring well/recovery well drilling oversight, sampling, report writing and performance evaluations throughout the site. Data were also evaluated to U.S. Environmental Protection Agency and American Society for Testing and Materials guidance for monitored natural attenuation evaluations. BIOSCREEN modeling was also performed for several plumes at the site.

Project Date: May 2002 – 2009

EA Project No. – 1337306; EA Project Manager – Robert Shambach

RCRA Solid Waste Management Unit Investigations, Andersen Air Force Base, Guam; Air Force Center for Engineering and the Environment; Task Manager/Site Geologist—Field task manager for several solid waste management unit sites throughout Andersen Air Force Base. Conducted site investigations that include surface and subsurface soil sample collection, boring completion for site characterization. The investigations involved permits; surface and subsurface soil sampling, oversight of subcontractors, and reporting of results in a summary document.

Project Date: July 2001 – 2008

EA Project Nos. – 1379706, 07, 08; EA Project Manager – Robert Shambach

IRP, Andersen Air Force Base, Guam; Air Force Center for Engineering and the Environment; Geologist—Field task manager for several RI/FS IRP sites following CERCLA process under Air Force Center for Engineering and the Environment and Federal regulations. Successfully managed six IRP site investigations in five operable units from start to final report phase. During the investigation, conducted multiple activities that included installation of deep monitoring wells to 700 ft using reverse air rotary drilling equipment, groundwater sampling from deep wells, soil gas probe installation and sample collection, soil sample collection, unexploded ordnance avoidance, and electromagnetic geophysical surveys. Provided site task-managing support for several IRP sites including oversight of a minimum of two subcontractors. Writing experience included several styles of reports including No Further Remedial Action Plans, Site Characterization Summary Reports, Engineering Evaluation/Cost Analysis, and RI/FS reports.

Project Date: March 1996 – 2008

EA Project No. – 2970014, EA Project Manager –Robert Shambach

Petroleum Storage Tank Leak Assessment; Shell Guam, Inc.; Project Manager—Project Manager for initial assessment to determine if a petroleum storage tank leaked. Used portable hydraulic auger technology to complete shallow borings to groundwater to determine if release occurred. The project was completed within 50 percent of the proposed budget.

Project Date: February 2007

EA Project No. – 1433909; EA Project Manager –Robert Shambach

Preliminary Assessments/Site Investigations for 23 IRP Sites, Andersen Air Force Base, Guam; Air Force Center for Engineering and the Environment; Project Manager—Project manager for a \$2.4 million preliminary assessment/site investigation following CERCLA process under AFCE Air Force Center for Engineering and the Environment and Federal regulations. Provided site management support for sites including oversight of subcontractors, procurement of subcontractors, and development of work plans, sampling and analysis plans, standard operating procedures, and RI/FS reports.

Project Date: March 2004 – January 2007

EA Project No. – 2970037; EA Project Manager – Toraj Ghofrani

Brownfields Site Survey, Saipan, Commonwealth of the Northern Mariana Islands; Department of Environmental Quality (Team Partner – Duenas & Associates); Task Manager/Site Geologist—Task management activities included site preparation and logistics, review of survey procedures and forms, survey results, photos, forms, interviews, and draft report. Concluded the investigation with a Brownfields Site Survey and Inventory for the Island of Saipan report.

Project Date: October 2005 – September 2006

EA Project No. – 6206401; EA Project Manager – Robert Shambach

Employment History

Employer—EA Engineering, Science, and Technology, Inc., PBC

Dates of Employment—June 1994 – Present

Title—Guam Office Manager/Senior Geologist (July 2013 – Present)

Guam Operations/Profit Center Manager (October 2008 – June 2013)

Project Manager/Geologist III (September 2005 – October 2008)

Geologist II (January 1997 – September 2005)

Geologist I (January 1995 – January 1997)

Environmental Technician II (June 1994 – January 1995)

List of Technical Skills and Specializations

- Administrative duties
- Business development
- Brownfields assessments
- Investigations and removal actions with remote site logistics
- Investigations involving remote site logistics
- Munitions-related site investigations
- Naval Facilities Engineering Command Marianas Explosive Safety Submission compliance
- Management of teaming partners and subcontractors
- Monitored natural attenuation evaluation and reporting
- Performance of geophysical surveys and interpretation of data
- RI/FS at CERCLA and RCRA sites
- Technical document preparation and production
- Wellhead Protection Plans