



AECOS, Inc.
45-939 Kamehameha Hwy, Suite 104
Kāneʻohe, Hawaiʻi 96744
Phone: (808) 234-7770 Fax: (808) 234-7775
Email: aecos@aecos.com

June 12, 2025

Office of Sustainability, Climate Change, Equity and Resilience
oscer@hawaiicounty.gov
ATTN Ms. Laura Acasio Administrator
25 Aupuni Street, Suite 1301
Hilo, HI 96720

Re: Professional Services Qualifications for the Fiscal Year 2025-2026

Dear Ms. Acasio;

AECOS Inc. would like to take this opportunity to submit our qualifications for professional services to the County of Hawaiʻi. *AECOS* performs terrestrial, stream, and marine flora/fauna and water quality surveys. *AECOS* also performs jurisdictional water determinations and provides biological monitoring, water quality monitoring, and laboratory services. The following itemized list corresponds to the numbered items in your Notice to Providers of Professional Services.

- 1) *AECOS, Inc.*
45-939 Kamehameha Hwy., #104
Kaneʻohe, HI 96744
There are no other office locations, however a few biologists work from home on Oʻahu and Hawaiʻi island, and a project manager works from Utah.

Contact: Susan Burr
sburr@aecos.com
- 2) *AECOS* was established in 1971 and is 54 years old. The average number of employees over the last five years is 20.
- 3) Resumes of key employees are included in the attached statement of qualifications.

June 12, 2025

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4) Listed here are a few recent projects:

- Ongoing. Avian Monitoring, Predator Control, and Reporting for the Kealahou WWTP. Contracted by County of Hawaii. AECOS No. 1627.
- 2024-2025 Biological monitoring for AKT - Maui Temp Housing, Kilohana, Lahaina, Island of Maui, Hawaii. AECOS No. 1824
- 2024 Marine Biological Surveys for FY24 Special Project Apra Harbor Waterfront Repairs, Apra Harbor, Naval Base Guam AECOS No. 1809
- 2024 Natural resources assessment for Booth Road repair and drainage improvements Pauoa, Honolulu, O'ahu. AECOS No. 1817
- 2024 Jurisdictional determination for Waialele and 'Ihi'ihi streams, Lā'ie, O'ahu. AECOS No. 1816
- 2023 Biological surveys for DHHL King's Landing Kuleana Homestead Settlement Plan & Environmental Assessment. AECOS No. 1752.
- 2022-2023 Biological monitoring for threatened and endangered birds and seabirds at Punaluu during construction activity. Contracted by ICF Stokes. AECOS No. 1402.
- 2020. *Faunal survey for the proposed Circuit Hawai'i Raceway Park, Kapolei, O'ahu, Hawai'i.* Prep. for HHF Planners, Inc., AECOS No.1619.
- 2020. *Natural Resource Assessment for Kapolei Parkway Lots, Ewa, O'ahu, Hawai'i.* Prep. for the Kobayashi Group, LLC., AECOS No. 1614.

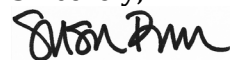
List of clients that can be contacted:

- RM Towill Corp., Brian Takeda, BrianT@rmtowill.com, (808)842-1133
- Wilson Okamoto, Keola Cheng, KCheng@wilsonokamoto.com, (808)946-2277
- EKNA Services, Inc., Brian Ishii, BIshii@eknahawaii.com, (808)591-8553
- HHF Planners, Scott Ezer, SEzer@hff.com, (808)457-3158
- G70, Jeff Overton, Jeff@g70.design, (808)523-5866

5) A statement of qualifications with a personnel list and resumes of key employees along with a company brochure is being submitted with this letter via email. A certificate of insurance is also included in this email.

AECOS looks forward to working with the County of Hawai'i. Any questions or comments regarding these submitted documents should be addressed to Ann Mello at amello@aecos.com or via phone at 808-234-7770.

Sincerely,



Susan Burr
President

**STATEMENT OF
QUALIFICATIONS**



AECOS, Inc.
45-939 Kamehameha Hwy., Ste. 104
Kāneʻohe, Hawaii 96744

Phone: (808) 234-7770
e-mail: sburr@aecos.com
www.aecos.com

May 20, 2025

INTRODUCTION TO *AECOS*

AECOS, Inc. is a small, Hawai‘i-based business providing environmental consulting and analytical laboratory services to government, industry, commercial, and private clients throughout the Pacific Basin. We offer a variety of services, with special emphasis in ecology, aquatic sciences, and water quality. Established in Hawai‘I in 1971, our company’s dedication to excellence has produced a reputation for quality and integrity for over 50 years.

Our services include, and are not limited to, the following:

- | | |
|--|---------------------------------------|
| ◆ Wetland Delineations | ◆ Natural Resource Inventories |
| ◆ Jurisdictional Waters Determinations | ◆ Water Quality Studies |
| ◆ OWHM Delineations | ◆ Analytical Chemistry |
| ◆ Ecological Assessments | ◆ Environmental Permitting assistance |
| ◆ Biological Stream Surveys | ◆ Essential Fish Habitat Assessment |
| ◆ Marine Surveys | ◆ Biological Evaluation |

In our 50+ years, *AECOS* has worked on over 1800 projects for clients, mostly in Hawai‘i but also covering work on numerous Pacific Islands, and as far west as Japan. Our staff includes biologists, ecologists, water quality specialists, microbiologists, oceanographers, technicians and administrative support. *AECOS* scientists have extensive knowledge of terrestrial, marine, freshwater, and wetland ecology throughout the Pacific area. This collective expertise provides a multi-disciplinary capability for addressing a variety of environmental issues and challenges faced by our clients. We have an FAA-certified UAV pilot and conduct ecological surveys with a drone, we operate remote water level monitoring systems, and process photomosaic imagery to generate 3-D models and 2-D orthophotos for coral reefs.

AECOS maintains an extensive library of environmental reports, texts, and reference collections of marine and aquatic flora and fauna. Networked computers with a variety of database, spreadsheet, statistical, and word-processing software enable rapid data analysis and timely submission of reports. Documents are prepared using Microsoft® Word for Windows™. Data tables can be provided digitally in Microsoft® Word or Excel or pdf formats. *AECOS* maintains a home page on the World Wide Web (www.aecos.com) which provides more information on our company, project experience, and various environmental data, and as a community service, maintains links to other environmental sites of interest.

AECOS laboratory participates annually in EPA certified provider Water Pollution and Water Supply performance evaluation samples for the analyses we do in-house. Our microbiology laboratory is Hawai‘i Department of Health (HDOH) certified for drinking water analyses. *AECOS* is an accepted laboratory for Underground Injection Control (UIC) sampling and analyses and is accepted by HDOH Clean Water Branch and the City & County of Honolulu as qualified samplers for monitoring programs.

PERSONNEL

AECOS employs a diverse staff of personnel who are highly experienced in designing and implementing environmental studies and conducting analyses in support of such studies. Personnel are cross trained in different fields. Key personnel are listed below. *AECOS* has an average of 18-28 employees, including full-time, part-time, and on-call staff members. Brief resumes of some of the staff are provided on the following pages.

Name	Title/Field of Expertise
Eric B. Guinther	CEO, Ecologist, Botanist, Project Manager
Susan Burr	President, Environmental Scientist, Project Manager
Ann Mello	Secretary/Treasurer, Office Manager, Project Manager, Data Technician
Dr. S. Allen Cattell	Water Quality Specialist
Jessica Withrow	Laboratory Manager, Biologist, Marine Biologist, Assistant Microbiologist
Rachel Knapstein	Microbiologist, Marine Biologist
Stacey Kilarski-Jacobson	Marine Resource Management Specialist, Marine Biologist
Reginald David	Vertebrate Biologist, ESA Specialist, Section 7 Specialist
Kamryn Yoneshige	Biologist
Gioconda Lopez Vargas	Botanist
Anne Lee	Biologist
Flor Mucino	Biologist
Camryn Kunioka	Asst. Microbiologist, Lab/Field Technician
Nicole Shrader	Lab/Field Technician, Marine Biologist, Assistant Microbiologist
Joaquin Mello	Biologist
Jennifer Tietjen	Biologist

ERIC B. GUINTHER

Eric B. Guinther is an ecologist/botanist and aquatic biologist with 50 years of experience conducting environmental studies throughout the central Pacific Basin. His responsibilities at AECOS include corporate and project management, as well as the production of environmental survey reports, water quality assessments, and plant and animal identifications. Mr. Guinther does the final review of all AECOS reports prior to sending to clients. His educational background encompasses geology and botany in addition to his major area of study in invertebrate zoology. In recent years, Mr. Guinther has been involved mostly with conducting plant surveys to document potentially sensitive species (native or listed species) as well as invasive and potentially invasive species, conducting surveys assessing the distribution of aquatic biota, and interpreting water quality data to assess the impact of projects on the natural environment.

Mr. Guinther has conducted marine, terrestrial, and coastal zone surveys for AECOS throughout the Hawaiian Islands and the western and central Pacific, including Guam, American Samoa, Kwajalein Atoll, Canton Atoll, Fanning Atoll, Christmas Island, Yap, Saipan, Tinian, Palau, and Japan. He has completed numerous terrestrial botanical resource and aquatic resource (streams and wetlands) surveys in the Hawaiian Islands. His work in Guam included field and literature wetland resource surveys for Navy lands.

Mr. Guinther is exceptional at field identification and the use of taxonomic keys. He has authored or has been lead author on hundreds of reports. He has prepared biological and impact analyses sections for numerous EAs and EISs. He has participated in ESA botanical species consultations with resource agencies on behalf of clients.

Recent projects underway or completed include numerous botanical surveys for private and public clients on Kauaʻi, Lānaʻi, Maui, Hawaiʻi, Oʻahu, and. He was a technical advisor to the TMDL studies for Kāwā, Kāneʻohe, and Waikele streams funded by the State of Hawaii, Dept. of Health, and is recently served as botanist for stream improvements under an Army Corps project involving Honolulu urban stream (Mānoa and Palolo streams) and an assessment of the impacts of invasive plants on Kawai Nui Marsh on windward Oʻahu.

Mr. Guinther has completed the 40-hour basic health and safety training required for hazardous waste workers under OSHA 1910.120 and continues to maintain his certification through the annual refresher courses. He is also certified in Standard First Aid, CPR/AED and Wilderness First Aid. Mr. Guinther is an active participant at Na Pohaku o Hauwahine in Kailua, a community project to restore native vegetation and marsh habitat in Kawai Nui Marsh.

SUSAN BURR

Susan Burr, Environmental Scientist, is President of AECOS and has 30 years of experience in the environmental field. Her responsibilities at AECOS include project management, marine and freshwater biology, preparation of environmental survey and assessment reports, and wetland delineations. Susan has been project manager at AECOS for numerous environmental and water quality studies throughout the Pacific area. Her project list includes projects in perennial and intermittent streams, reservoirs and irrigation systems, mangroves and coastal wetlands, nearshore coral reefs, deep-draft and small boat harbors, sandy beaches, and various construction sites.

Susan received a B.A. degree in Biology in 1991 from Pomona College and a M.S. degree in Marine Resources Management in 1993 from the College of Oceanic and Atmospheric Sciences at Oregon State University. She has worked for the Washington State Office of Marine Safety, Commonwealth of the Northern Mariana Islands Division of Environmental Quality, Hawai'i Department of Health Environmental Planning Office, and has been with AECOS since 2001.

Recent projects Susan has managed while at AECOS include a natural resources assessment for planned improvements to a reservoir and irrigation system; wetland delineations for public works and development projects; and stream surveys on Kaua'i, O'ahu, Maui, Moloka'i, and Hawai'i. Susan is a wetland professional in training (WPIT) with the Society of Wetland Scientists, a member of Hawai'i Association of Environmental Professionals, and a member of The Wildlife Society Hawaii Chapter.

Susan is currently certified for OSHA hazardous waste site worker (1910.120), open water SCUBA, NITROX diving, first aid, CPR/AED, Wilderness First Aid, oxygen administration for divers and she holds a transportation worker identification credential (TWIC) for working in and around harbors.

ALLEN CATTELL

Dr. Allen Cattell is formally trained in oceanography and has 30-years experience in water quality studies. His primary responsibilities at AECOS include senior review, statistical analysis, and preparation of environmental survey and water quality assessment reports. He has participated as a major contributor in numerous water quality studies throughout the Pacific area including: Alaska, British Columbia, California, Hawaii, Christmas Island, Johnston Island, Canton Island, Fanning Island, American Samoa, Kwajalein, Palau, Guam, and Thailand.

Dr. Cattell received his B.S. degree in Biology in 1963 from the University of the Pacific a M.S. degree in Marine Science in 1965 from the University of the Pacific, and a Ph.D. in Oceanography in 1969 from the University of British Columbia.

While at AECOS his consulting experience has included a wide variety of water quality studies in Hawaii and throughout the Central and Western Pacific area, including: the effects of disposal of thermal and sewage effluents and also dredge spoils into aquatic environments; the effects of various land development and watershed uses on the water quality of rivers, streams and coastal environments. Dr. Cattell served as an original member of the Technical Committee on Water Quality Standards for the State of Hawaii Department of Health and was responsible for the development of the State's marine water quality standards.

JESSICA WITHROW

Jessica Withrow, Laboratory Manager & Marine Biologist at *AECOS*, has 17 years of experience with water quality monitoring and testing, and laboratory management. Her responsibilities at *AECOS* include managing the laboratory (wet chemistry and microbiological testing), managing water quality projects including potable water, environmental, and wastewater projects, and conducting marine biological surveys. Jessica's laboratory project list includes projects for new source wells and groundwater boring wells and applicable monitoring and assessment plan (AMAP) monitoring for marine, freshwater, harbor, and brackish water environments. Jessica's marine biological project lists include qualitative and quantitative data collection for environmental assessments, environmental impact statements, and permit requirements. Jessica is also responsible for coral transplantation monitoring.

Jessica received a B.A. degree in Biology in 2003 from Hawai'i Pacific University. She has been with

AECOS since March 2006.

Recent projects Jessica has managed while at *AECOS* include conducting AMAP water quality monitoring for Mānoa Stream apron repair and erosion control project and a project to rehabilitate Hau'ula Homestead Bridge No.3; conducting long-term quarterly monitoring projects for Kukuīula Bay-Kaua'i, Kuilima/Turtle Bay-O'ahu, and Makena Golf Course- Maui; collecting and analyzing drinking water samples for lead, copper, and *E. coli* for Kamehameha Schools Preschools—O'ahu, Kaua'i, Moloka'i, Maui, and the Big Island; and conducting new source well and groundwater well boring sampling.

Jessica is currently certified for OSHA hazardous waste site worker (1910.120), nitrox SCUBA diving, first aid, CPR/AED, Wilderness First Aid, oxygen administration for divers, and she holds Maritime Security (MARSEC) and a transportation worker identification credential (TWIC) for working in and around harbors.

RACHEL E. KNAPSTEIN

Rachel Knapstein is a Biologist with *AECOS* and has over 15 years of experience in laboratory and environmental sciences including animal husbandry, microbiology, marine biological surveys, and water quality monitoring. Her primary responsibilities at *AECOS* include microbiological analyses, water quality sampling and periodic work conducting marine biological surveys and analysis, and coral transplantation.

Rachel Knapstein received two B.S. degrees in Biology and Environmental Science from Salisbury University and the University of Maryland: Eastern Shore, respectively, in 2008 and a M.S. degree in Marine Science in 2013 from Hawai'i Pacific University. She worked for the National Institutes of Health from 2008-2010 before attending graduate school and has been with *AECOS* since 2013.

Rachel is the laboratory supervisor and primary analyst of the *AECOS* microbiology laboratory, which is certified by the Hawai'i State Department of Health. In her role, she oversees the processing of water samples for various microorganisms, including total coliforms, *Escherichia coli*, heterotrophic bacteria, *Enterococci*, and *Pseudomonas aeruginosa*. Current clients include: Hawai'i Kai Marina Association, Hono'uli'uli Water Reclamation Facility, NAVFAC Hawai'i, Sea Life Park Hawai'i, US Forest Service, and various plumbing and mechanical engineering firms, food growers and distributors, and mortgage lenders. In addition to conducting tests on water samples, Rachel is responsible for implementing rigorous quality control measures. This includes regular calibration of equipment, verification of media performance, and proficiency testing. She is also responsible for maintaining the standard operating procedures (SOPs) and a robust quality assurance program in accordance with the guidelines set by the Hawai'i State Department of Health.

As a Qualified Field Sampler, she monitors potable water lines, streams, harbors, and nearshore environments in accordance with water quality regulations. Rachel is knowledgeable in all sampling procedures, equipment, instruments, SOPs, calibrations, limits, and reporting requirements for water quality and microbiological compliance, and she is experienced in SCUBA-based marine survey techniques. Current projects include sampling of various Honolulu Board of Water Supply Potable waterlines and NPDES (National Pollutant Discharge Elimination System) compliance monitoring as potable water infrastructure is built, repaired or replaced around Oahu.

She is a certified scientific diver under the American Academy of Underwater Sciences (AAUS), holds open water SCUBA, NITROX diving, and Rescue Diver certifications and has traveled to remote locations. As a certified NOAA diver, she worked with the coral Reef Ecosystem Division to survey and remove derelict fishing gear around the Northwestern Hawaiian Islands. With *AECOS*, she traveled to Johnston Atoll as a diver to sample fish tissue and marine sediment surrounding the atoll. She maintains current first aid, CPR/AED, and oxygen administration for divers, and she holds a transportation worker identification credential (TWIC) and MARSEC for working in and around harbors.

REGINALD E. DAVID

Reginald E. David is a terrestrial ecologist concentrating on vertebrate species in Hawai‘i and the Tropical Pacific. He specializes in avian species with an emphasis on endangered species. Between 1986 and the present, Mr. David has conducted over 1200 faunal surveys for the USFWS, the State of Hawai‘i, and numerous private concerns, on all of the main Hawaiian Islands as well as on Midway, Nihoa, Necker, and Kure Atolls. He has extensive field experience in New Zealand, Tahiti, Kiritimati, Guam, Saipan, Tinian, Gilbert Islands, Vanuatu, Republic of Palau, Eastern Siberia, Korea, and the western United States. He has conducted fieldwork on all of the Navy Facilities on Guam. He is also experienced in the radar tracking of seabirds and bats as well as ultrasonic and thermal imaging censusing of bats. Mr. David has authored/co-authored over 25 peer-reviewed papers, one book, and over 600 technical reports on birds and mammals. Mr. David is also the co-discoverer of a seabird new to science, which has recently been described as Bryan’s Shearwater (*Puffinus bryani*).

Mr. David has a good working knowledge of USFWS, State of Hawai‘i, and the Federal Department of Transportation environmental laws and regulations. Mr. David is experienced in preparing Biological Assessments (BAs) required under Section 7 of the Endangered Species Act (ESA) and in negotiating mitigation under Section 7 of the ESA with the USFWS as well as under section 10 of the ESA and Hawaii State Statute 195D. He also has experience in preparing Natural Resource Management Plans (NRMPs) and DoD, Integrated Natural Resource Management Plans (INRMPs), as well as State of Hawai‘i Section 343 Environmental Assessments.

Mr. David has written or co-authored multiple seabird and waterbird Habitat Conservation Plans (HCP), and Formal Section 7 consultations—he was integral in negotiating minimization and mitigation measures for those plans. He has completed the 40-hour basic health and safety training required for hazardous waste workers under OSHA 1910.120 and continues to maintain his certification through the annual refresher courses. He is also certified in Standard First Aid, CPR/AED and Wilderness First Aid. He has served on numerous boards and committees of agencies and private NGO groups.

- Hawaii Bird Records Committee: Vice-chair – 2017- present
- State of Hawaii Department of Land and Natural Resources, Natural Areas Reserve
- Commission (NARS) Commissioner: 1999 – 2004
- Moderator – HawaiiBirding internet chatline and website 1999-present
- US Fish & Wildlife Service, ‘Alala Recovery Team Member: 1994 – 2016.
- National Audubon Society: Board of Directors member: 1993-1996
- Hawaii Audubon Society: Board of Directors member: 1989 - 1996, 1998
- Hawai‘i Audubon Society: President 1990-1994
- US Fish & Wildlife & DLNR, Newell’s Shearwater Working Group
- US Fish & Wildlife & DLNR, Hawaiian hoary bat Technical Working Group
- The Mauna Kea Management Board – Environmental Committee
- US Fish & Wildlife & DLNR, Hawaii Endangered Waterfowl Recovery Team Advisory Committee

A 55-page list of Mr. David’s publications, and technical reports is available upon request.

KAMRYN R. YONESHIGE

Kamryn Yoneshige has been a Biologist and field technician at *AECOS* since 2022, with experience conducting environmental studies throughout Hawai‘i. Her responsibilities at *AECOS* include conducting biological surveys, including plant and animal identifications, production of environmental survey reports, and preparation of water quality assessments.

Ms. Yoneshige received a B.S. degree in Environmental Science and minor in Biology in 2022 from the University of Portland (UP). She worked one summer in Portland, Oregon, doing research for UP. Research focused on biodiversity and the extraction of eDNA from nearby wetlands. Ms. Yoneshige also had an internship with Mālama Maunalua, a conservation program on O‘ahu. She experimented with planting seagrass in Maunalua Bay, learned numerous native plant and animal species, and assisted with educational outreach within the community.

Ms. Yoneshige conducts bird and waterbird nest surveys for various clients throughout Hawai‘i, focusing on endangered native species. Some recent projects include avian surveys for private and public clients on Kaua‘i, Maui, and O‘ahu. Ms. Yoneshige is also planning on attending the Hawaiian Honeycreeper Workshop hosted by The Wildlife Society. Scheduled to take place in February 2024 on the Big Island of Hawai‘i, the workshop will provide information on avian ecology and experience with mist netting and banding endangered Hawaiian bird species. Ms. Yoneshige also has experience in jurisdictional delineations, including ordinary high water mark and wetlands, and in water quality surveys (marine and freshwater).

Ms. Yoneshige has completed the 40-hour basic health and safety training required for hazardous waste workers under OSHA 1910.120. She is also certified in Standard First Aid and CPR/AED. Ms. Yoneshige also holds a transportation worker identification credential (TWIC) for working in and around harbors and has completed maritime security (MARSEC) training.

GIOCONDA LÓPEZ, Ph.D.

Dr. Gioconda Lopez joined the team at *AECOS* in 2023S as a botanist. She has over a decade of experience in the environmental and conservation field and more than 15 years as a plant researcher. Her responsibilities at *AECOS* include project management, biological field surveys, data analysis, plant identification, and the production of natural resources reports.

EDUCATION

Gioconda received her B.S. degree in Environmental Biology in 2008 and her M.S. in Ecology and Evolutionary Biology from the University of Chile in 2011. In 2019, she earned her Ph.D. in Botany (Ethnobotany track) from the University of Hawaii.

EXPERIENCE

Prior to *AECOS*, Gioconda worked as a research assistant for the University of Chile and as a freelance botanist for various firms in Chile. In 2016, she managed the relocation of endangered cacti and succulents for the construction of a high-power electrical line in north-central Chile. In Hawai‘i, she worked in education as a research and teaching assistant for biology, ethnobotany, and algal diversity classes at the University of Hawai‘i, and for O‘ahu RC&D as the coordinator for the project Pop Up Labs for STEAM.

Gioconda's skill set is diverse and comprehensive. She has extensive experience in conducting fieldwork in various ecosystems, identifying flora, measuring vegetation and biodiversity, and identifying and measuring algal diversity in coastal environments. Her skills also extend to sampling and identifying pollinators, census and identification of birds, and sampling and identifying invertebrates for water quality analysis. Additionally, she is proficient in data analysis, image processing, and mapping. Gioconda has experience writing professional reports, outreach materials, and scientific articles in English and Spanish and delivering presentations for diverse audiences.

PROFESSIONAL ASSOCIATIONS AND CERTIFICATIONS

Gioconda has certifications in American Red Cross CPR and First Aid, PADI Open Water Diver Certification from Oahu Divers in Honolulu, Hawai‘i, and holds an active Transportation Workers Identification Credentials (TWIC) card for working in and around harbors and airports.

ANNE LEE

Anne Lee recently joined *AECOS* as a Biologist in 2024. So far, she has conducted and managed wetlands and waters of US delineations, terrestrial flora and fauna surveys, and marine surveys. She is responsible for preparing and producing environmental survey reports.

EDUCATION

Anne received her B.S. degree in Biology in 2017 at Denison University. She also received her M.S. degree in Zoology with a specialization of Ecology, Evolution, and Conservation Biology in 2022 at University of Hawai‘i at Mānoa. Her thesis focused on using single nucleotide polymorphisms to resolve the origins and population structure of deepwater *Etelis* snappers in the North Pacific Ocean.

EXPERIENCE

Prior to graduate school, Anne worked as a research technician at the Hawai‘i Institute of Marine Biology. She conducted research on assessing the Deep Reef Refugia Hypothesis for the yellow longnose butterflyfish, *Forcipiger flavissimus*. This research entailed a lot of bench work like DNA extraction and Polymerase Chain Reaction as well as computer analysis. In graduate school, Anne’s thesis research focused on understanding the population structure and origin of deepwater *Etelis* snappers to help develop fishery management strategies and ensure the long-term sustainability of the Hawaiian Eteline snappers. Throughout her academic journey, she acquired a lot of laboratory techniques and other advanced skill sets like bioinformatics. Having to work with large datasets of DNA sequences, she utilized different pipelines to create a catalog of all loci in the dataset and call single nucleotide polymorphisms within individuals.

PROFESSIONAL ASSOCIATIONS AND CERTIFICATIONS

- Certified American Academy of Underwater Sciences (AAUS) scientific diver, certified in open water, advanced, rescue, and nitrox SCUBA, O₂ administration for divers

CAMRYN K. KUNIOKA

Camryn Kunioka has been a microbiologist and field technician with AECOS since 2022. She has experience in analyzing water quality, biomonitoring, and writing reports. Her responsibilities at AECOS include field sampling, microbiological sampling and testing, report writing, and other laboratory responsibilities such as acid preserving and water quality analyzing tests.

Camryn earned a B.S. degree in Sustainable Science Management from the University of Hawaii Maui College with a concentration in marine science.

As a field technician she has been involved in many projects such as long-term monitoring on Maui and O'ahu, microbiology sampling for Board of Water Supply chlorination water line projects, drinking water sampling, environmental water sampling from streams, ponds, and other surface water bodies, and cruise ship effluent sampling. She is experienced at field measurements for dissolved oxygen, temperature, salinity, conductivity, pH, ORP, and chlorine. As well as doing field work, she is also a certified microbiologist by the State of Hawai'i Department of Health (DOH). She conducts analyses on different types of water including drinking, irrigation, and wastewater. Camryn also has experience in performing other water analyses such as turbidity, color, biological oxygen demand (BOD), conductivity, salinity, and pH. She also prepares bottles and sampling kits for clients, reviews lab data and tracks the status of lab files. Camryn is well versed in proper preservations, hold times, and methods required to run certain analyses.

Camryn has her Hazardous Waste Operations and Emergency Response (HAZWOPER) certification in health and safety training required for hazardous waste workers under OSHA 1910.120 as well as Standard First Aid and CPR/ AED. She also holds a transportation worker identification credential (TWIC), and is accredited in Leadership in Environmental and Energy Design (LEED).

NICOLE SHRADER

Nicole Shrader is a Laboratory/Field Technician, Marine Biologist and Assistant Microbiologist at AECOS with 8 years of experience with water quality monitoring, marine biological surveys and various laboratory analyses. Her responsibilities at AECOS include Dive Safety Officer, drone operator, laboratory analysis, water quality sampling and periodic work conducting marine biological surveys and analysis.

Nicole received two Bachelor of Science degrees in Marine Biology and Oceanography from Hawaii Pacific University in 2007 and has been with AECOS since 2017.

As a Qualified Field Sampler, she monitors potable water lines, streams, harbors, and nearshore environments in accordance with water quality regulations. Nicole is knowledgeable in sampling procedures, equipment, instruments, SOPs, calibrations, limits, and reporting requirements for water quality and microbiological compliance, and she is experienced in SCUBA-based marine survey techniques.

Nicole is a PADI Master SCUBA Diving Instructor and holds SCUBA certifications from PADI/SDI/TSI. She maintains current first aid, CPR, and oxygen administration for divers, and holds a transportation worker identification credential (TWIC) and MARSEC for working in and around harbors. She also has a DOT FAA 107 Small UAS Pilots License.

SERVICES INCLUDE

Environmental Monitoring & Laboratory Analyses

- Streams
- Seawater
- Drinking Water
- Groundwater
- Wastewater
- Sediments
- Sludge & Tissue



We design and implement monitoring programs according to Federal, State, and local regulating agencies and provide a wide range of physical, chemical and biological analyses on a variety of sample types.

Field Surveys

- Coral Reefs
- Wetlands
- Streams
- Uplands



Knowledgeable staff provide comprehensive ecosystem surveys including identification of flora and fauna.

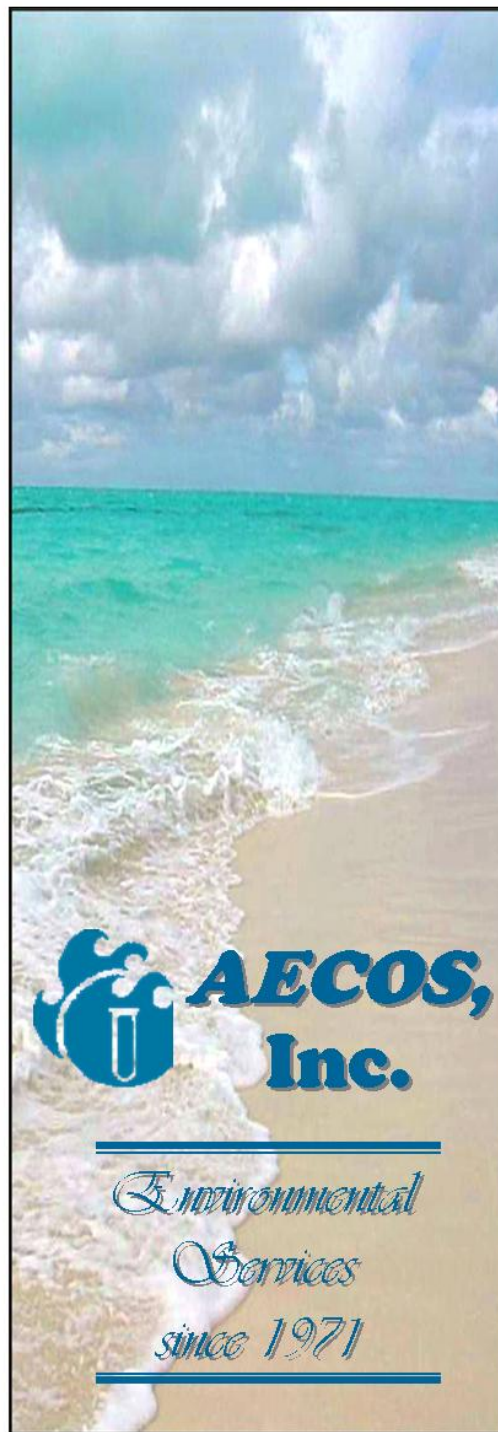
Technical Writing

- Environmental Assessments (EA)
- Environmental Impact Statements (EIS)
- Environmental Permits
- Natural History

We produce clear, concise, well-researched documents to meet your company's needs.

AECOS, Inc.
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Website: www.aecos.com

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Kaneohe, Hawaii 96744





AECOS, Inc. is a Hawaii owned and operated environmental consulting firm providing quality analytical laboratory and field services for governmental, industrial, commercial, and private clients throughout the Pacific Basin.



O' hia lehua in full bloom.

With over 30 years of dedication to excellence, AECOS staff has maintained a reputation for quality and integrity since its founding in 1971.

AECOS offers a wide variety of ecological and environmental services with special emphasis in water quality and aquatic sciences.

COMMITMENT TO QUALITY

- Water Quality Monitoring
- Ecological Assessments
- Terrestrial, Aquatic & Marine Surveys
- Wetland Delineations
- Analytical Chemistry
- Environmental Permitting



Ka'ena Point, Oahu.

SAMPLING AND ANALYTICAL CAPABILITIES

FIELD SURVEYS & SAMPLING

Field studies are designed using established techniques for onsite sampling, organism collection, identification of flora and fauna, and measurement of environmental parameters.



Kawa Stream overgrowth, Oahu.

LABORATORY SERVICES

- Analytical Chemistry
- Microbiology/Bacteriology
- Inorganic and Organic Nutrients
- Toxicity Bioassays
- Fluorometry
- Spectrophotometry

Please visit www.aecos.com/aecoslab.html for an extensive listing of services. If we do not offer the particular analyses needed we can forward samples to another quality laboratory.

TECHNICAL WRITING SERVICES

We provide quick and accurate Environmental Assessments (EA) and Environmental Impact Statements (EIS). We prepare and submit permit application materials and obtain permits for clients (Shoreline Setback Variance, Stormwater Runoff, Sec. 401 Water Quality Cert., NPDES, Construction Dewatering, Zone-of-Mixing, Conservation District Use, and CZM Consistency).

QUALITY ASSURANCE

AECOS STAFF

AECOS has a diverse staff, highly experienced in designing and implementing environmental studies and conducting laboratory analyses.

Staff are trained and certified to handle hazardous materials (OSHA) and our laboratory is Hawaii State



Certified to conduct drinking water analyses.

AECOS is regularly improving field and laboratory protocols to meet the environmental objectives of today's clients.

DATA FIDELITY



Sandy atoll shoreline.

To ensure the reliability of reported laboratory results, we participate in performance evaluations for the Safe Drinking Water Act (SDWA), National Pollutant Discharge Elimination System (NPDES), and other water pollution programs. Performance evaluation samples are obtained from Environmental Protection Agency (EPA) certified providers.

Please call us for further details and pricing.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

10/01/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Atlas Insurance Agency, Inc. 201 Merchant Street Suite 1100 Honolulu HI 96813	CONTACT NAME: Jana Mukogawa PHONE (A/C, No, Ext): (808) 533-3222 FAX (A/C, No): (808) 533-8777 E-MAIL ADDRESS: INSURER(S) AFFORDING COVERAGE INSURER A: *Evanston Insurance Co. NAIC # 35378 INSURER B: North River Ins. Co. 21105. INSURER C: Hawaii Employers' Mutual Ins Co Inc. 10781 INSURER D: American Alternative Insurance Corp. 19720 INSURER E: *Broker: Synapse Services, LLC INSURER F:
INSURED AECOS, Inc. 45-939 Kamehameha Hwy., Room 104 Kaneohe HI 96744	

COVERAGES**CERTIFICATE NUMBER:** 24-25 MISC2**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR ☒ BI/PD Deductible: \$2,500 GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☐ PRO-JECT ☐ LOC OTHER:			*This insurance contract is issued by an Insurer which is not licensed by the State of Hawaii and is not subject to its regulation or examination. If the Insurer is found insolvent, claims under this contract are not covered by any guaranty *MKLV2ENV104436 Broker Name: Synapse Service, LLC License #: 374802 Address: 3322 Route 22 West, Suite 1105 Branchburg, NJ 13202	09/27/2024	09/27/2025	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 25,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	☒ AUTOMOBILE LIABILITY ☒ ANY AUTO OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☒ HIRED AUTOS ONLY ☒ NON-OWNED AUTOS ONLY			133-757094-6	09/27/2024	09/27/2025	COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ 1,000,000 BODILY INJURY (Per accident) \$ 1,000,000 PROPERTY DAMAGE (Per accident) \$ 1,000,000
A	☐ UMBRELLA LIAB ☒ OCCUR ☒ EXCESS LIAB ☐ CLAIMS-MADE DED RETENTION \$			*MKLV2EFX101436	09/27/2024	09/27/2025	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N ☐ If yes, describe under DESCRIPTION OF OPERATIONS below		N / A	WC0011755	09/27/2024	09/27/2025	☒ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A/D	Professional Liability / Maritime Liability			See Attached Remarks	09/27/2024	09/27/2025	See Attached Remarks

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Proof of insurance certificate provided for coverages indicated.

CERTIFICATE HOLDER**CANCELLATION**

AECOS, Inc. 45-939 Kamehameha Hwy. Rm 104 Kaneohe HI 96744-0000	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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AGENCY CUSTOMER ID: 00002646

LOC #: _____



ADDITIONAL REMARKS SCHEDULE

Page ____ of ____

AGENCY Atlas Insurance Agency, Inc.		NAMED INSURED AECOS, Inc.
POLICY NUMBER		
CARRIER	NAIC CODE	EFFECTIVE DATE:

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 25 **FORM TITLE:** Certificate of Liability Insurance: Notes

Insr Ltr A: Professional Liability
 Policy Number: *MKLV2ENV104436
 Policy Term: 09/27/2024 - 09/27/2025
 \$2,000,000 Each Claim
 \$2,000,000 Aggregate

Insr Ltr D: Maritime Liability
 Policy Number: 1VAOM1000115-05
 Policy Term: 09/27/2024 - 09/27/2025
 \$1,000,000 Limit