

Qualifications to Provide Professional Services for the Fiscal Year 2023-24



Submitted to
County of Hawai'i
Housing and Community Development

Submitted by
Oceanit





27 June 2023

Ms. Susan Kunz, Administrator
Housing and Community Development, County of Hawai'i

SUBJECT: Qualifications to Provide Professional Services for the Fiscal Year 2023-24

Dear Ms. Kunz:

Oceanit is pleased to submit our letter of interest and qualifications to the Hawai'i County Housing and Community Development to provide professional services under the categories identified below:

- **OH.1 General Engineering (Construction Inspector)**
- **OH.2 General Engineering (Project Manager)**
- **OH.3 Construction Management/Inspector**
- **OH.4 Community Planning (Environmental Assessment)**
- **OH.5 Community Planning (Community Engagement, Strategic Planning)**

Oceanit's **Resilient Sustainable Engineering (RiSE)** group has proudly provided diverse engineering and planning project services to public and private clients in Hawai'i and outside for over 37 years. The RiSE team comprises experienced professional civil engineers, coastal engineers, environmental scientists, planners, drafters/designers, and technicians who have successfully delivered civil, coastal, and environmental engineering design as well as construction management, planning, permitting, and environmental document preparation.

Our submittal package includes:

Contact Information and Team Composition (Federal Form 330)

- Key Personnel Resumes and Qualifications (Federal Form 330)
- Example Projects (Federal Form 330)
- Additional Information (including client references and conflict of interest statement)
- General Qualifications (Federal Form 330)
- Appendix I – Key Personnel Certificates and Professional Licenses
- Appendix II – Oceanit Brochure
- Appendix III – Certificates of Company Insurance and Vendor Compliance

We look forward to the opportunity to provide our professional services. If you have any questions, please feel free to call me at 531-3017 or email me at kcheung@oceanit.com or Dale Uno at duno@oceanit.com.

Sincerely,

Ken Cheung
Director of Strategic Business Units

ARCHITECT – ENGINEER QUALIFICATIONS

PART I – CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*

Notice to Provide Professional Services for FY 2023-24

2. PUBLIC NOTICE DATE

01 June 2023

3. SOLICITATION OR PROJECT NUMBER

FY 23-24 Notice to Providers of Professional Services

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Dale Uno, Community Outreach Specialist/Proposal Manager

5. NAME OF FIRM

Oceanit

6. TELEPHONE NUMBER

808/531-3017

7. FAX NUMBER

808/531-3177

8. E-MAIL ADDRESS

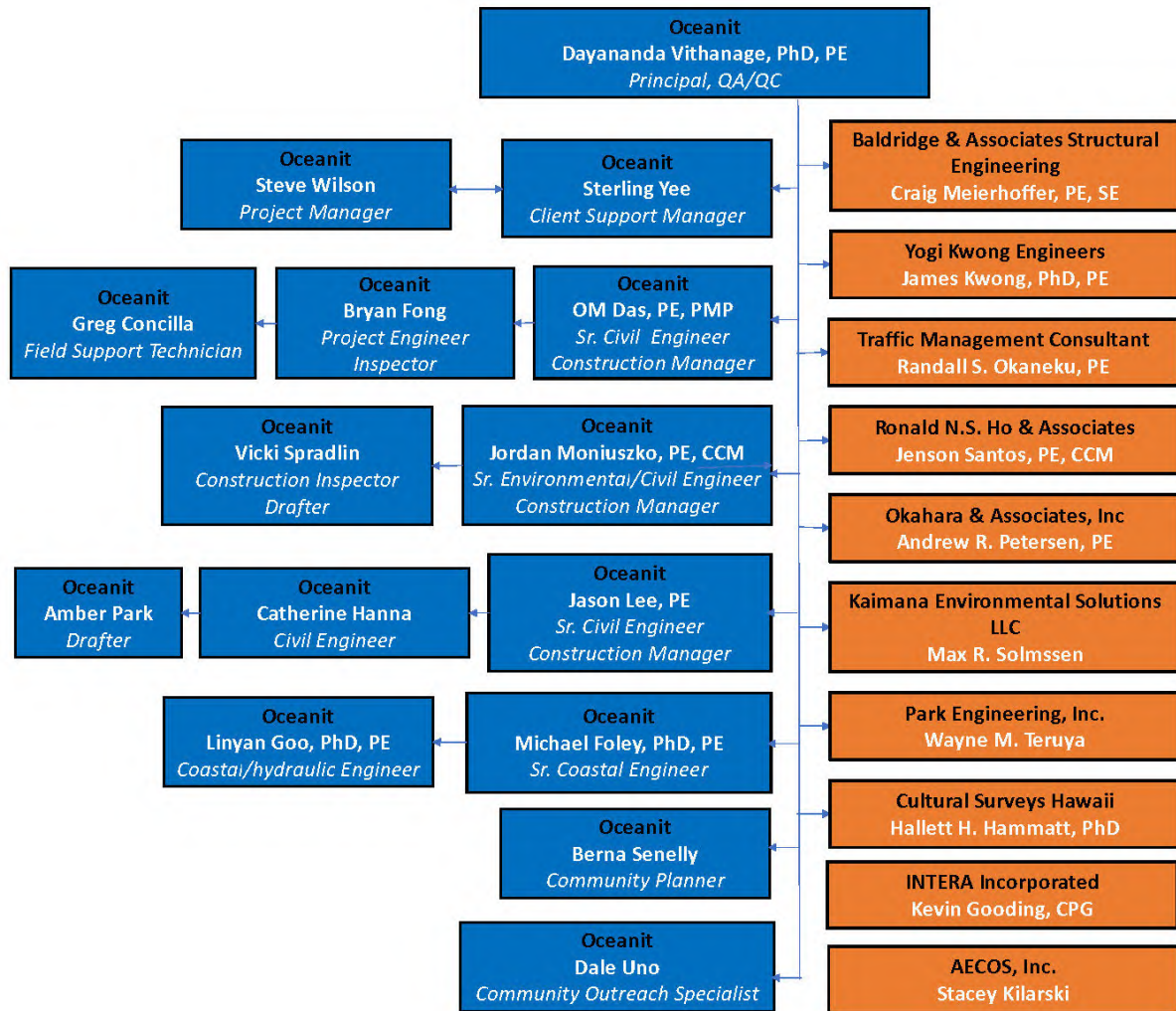
duno@oceanit.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors)

	<i>(Check)</i>			9. FIRM NAME <input type="checkbox"/> CHECK IF BRANCH OFFICE	10. ADDRESS	11. ROLE IN THIS CONTRACT
	Prime	J-V Partner	Subcontractor			
a.	X			Oceanit <input type="checkbox"/> CHECK IF BRANCH OFFICE	828 Fort Street Mall, Suite 600 Honolulu, HI 96813	Prime consultant
b.			X	Baldrige & Associates Structural Engineering, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	1164 Bishop Street, Suite 1600 Honolulu, HI 96813	Structural Engineer
c.			X	Yogi Kwong Engineers <input type="checkbox"/> CHECK IF BRANCH OFFICE	677 Ala Moana Blvd., Suite 710 Honolulu, HI 96813	Geotechnical Engineer
d.			X	The Traffic Management Consultant <input type="checkbox"/> CHECK IF BRANCH OFFICE	1188 Bishop St, Suite 1907 Honolulu, HI 96813	Traffic Engineer
e.			X	Ronald N.S.Ho & Associates <input type="checkbox"/> CHECK IF BRANCH OFFICE	2153 N King St, Suite 201 Honolulu, HI 96819	Electrical Engineer
f.			X	Okahara & Associates, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	677 Ala Moana Blvd #703 Honolulu, HI 96813	Mechanical Engineer
g.			X	Kaimana Environmental Solutions LLC <input type="checkbox"/> CHECK IF BRANCH OFFICE	PO Box 11890 Honolulu, HI 96828	Hazardous Material Inspections/ Environmental Compliance
h.			X	Park Engineering, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	711 Kapiolani Blvd, Suite 1500 Honolulu, HI 96813	Land Surveyor
i.			X	Cultural Surveys Hawaii <input type="checkbox"/> CHECK IF BRANCH OFFICE	P.O. Box 1114 Kailua, HI 96734	Archaeological and Cultural Studies
j.			X	INTERA Incorporated <input type="checkbox"/> CHECK IF BRANCH OFFICE	74 Kihapai Street Kailua, HI 96734	Environmental and Coastal Engineer
k.			X	AECOS, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	45-939 Kamehameha Highway, Suite 104 Kaneohe, HI 96744	Benthic and Biological Studies

D. ORGANIZATIONAL CHART OF PROPOSED TEAM



Key Personnel Resumes
Oceanit

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Dayananda H. Vithanage, PhD, PE	13. ROLE IN THIS CONTRACT Principal, QA/QC	14. YEARS EXPERIENCE	
		a. TOTAL 54	b. WITH CURRENT FIRM 33
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i			
16. EDUCATION (Degree and Specialization) BS, Civil Engineering MS, Coastal Engineering PhD, Ocean Engineering		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Civil Engineer, Hawai'i	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Dr. Vithanage is responsible for overseeing the technical quality of each project. He reviews project deliverables for quality assurance and quality control (QA/QC). He is involved with all stages of projects at Oceanit. He has served as the principal investigator for many coastal, civil, environmental, watershed, and environmental remediation projects throughout the state.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Honouliuli Wastewater Treatment Plant 'Ewa Beach, Hawai'i	2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal-in-charge for investigating the feasibility and environmental impacts of extending the existing outfall to obtain a National Pollutant Discharge Elimination System (NPDES) permit for future wastewater disposal from the treatment plant for the City and County of Honolulu. Installed two water column monitoring data buoys at the two depths and analyzed data for one year to evaluate the impacts on the water column. Conducted dye studies to model far field dispersion and plume fate. Developed conceptual outfall extension designs. Near real-time data and results were posted to an extranet website. The approximate project cost was \$680,000.		
b.	'Aliomanu Road Coastal Erosion Control Anahola, Hawai'i	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal-in-charge for the design of an emergency erosion control and protection solution for 'Aliomanu Road using coconut fiber sandbags for the County of Kaua'i. Conducted topographic and beach surveys, designed a permanent shore protection solution, and prepared an environmental assessment and plans, specifications, and cost estimates (PS&Es). Submitted applications for all required federal, state, and county permits for approval. The design included a revetment and the rebuilding of the road and shoulder. The approximate project cost was \$197,000.		
c.	Ala Wai Canal Watershed Flood Mitigation and Ecosystem Restoration Project, O'ahu, Hawai'i	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal-in-charge for the development of designs for flood alleviation in Waikiki and restoration of ecosystems in the upper watershed that includes Pālolo, Mānoa, and Makiki streams. Oceanit helped develop the project scope conceptual designs to mitigate intensity of flooding in Waikiki and restoring the functionality of the streams that provide habitat and migration path for endemic fish. Numerous informational meetings with State and County agencies, stakeholders, environmental groups, and the general public were held to discuss the stream problems, their impacts, and proposed restoration measures. Oceanit completed a hydrographic survey for Ala Wai Canal and part of the Ala Wai Boat Harbor. A hydrologic and hydraulic analysis was also completed for the watershed.		
d.	Water Infiltration in the Basement of the International Arrivals Building Daniel K. Inouye International Airport (HNL), O'ahu, Hawai'i	Phase 1: July 2019	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal-In-Charge for investigation and preliminary design of a complete solution to stop water infiltration in the basement of the International Arrivals Building (IAB) at HNL. The basement has been afflicted by continuous water infiltration (average 40 gallons per minute) and flooding events for the past two decades; a chronic problem that renders some areas unusable and impedes access to mechanical equipment and storage. After reviewing as-built plans, the Oceanit team investigated water infiltration sources into the basement, tested chemical composition of the infiltrating water and developed conceptual designs to prevent the infiltration and provided a report of the findings and recommendations. Phase 1 cost: \$550,000.		
e.	Repairs to the Daniel K. Inouye International airport Reef Runway Breakwater, Honolulu, Oahu, Hawai'i	2001	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal-In-Charge. Investigated and assessed the extent of damage to the structure from Hurricane Iniki and other severe storms, prepared plans, specifications, and cost estimates for casting concrete dolos armor units and repair the damaged areas of the structure, obtain necessary permits, assist in construction contract documentation, and provided the post design support to the construction contractor during construction. \$230,000		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Stephen B. Wilson	13. ROLE IN THIS CONTRACT Project Manager / Mechanical Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 50	b. WITH CURRENT FIRM 4
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i			
16. EDUCATION (Degree and Specialization) B.S. / 1973 / Mechanical Engineering MBA / 1980 / MBA		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Navy SCUBA Qualified; Drydock Master, Software Engineering Institute/Carnegie Mellon Capability Maturity Model, Hammer & Champy's Business Process Reengineering (BPR), Total Quality Management (TQM), International Organization for Standardization ISO 9001 auditor, Legislative Auditor for State of Hawaii (management & performance audits).			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	General Manager and Construction Engineer, Kailua-Kona and Honolulu, Hawai'i	2004-2006	2004-2006
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Construction & Operations Management - Construction of modular homes using light gauge steel frames and trusses that were manufactured from coils of light gauge steel in a plant environment. Manufactured entire home in two pieces that were trucked to job site and assembled and closed up. Homes were secured to foundations and utilities connected.		
b.	General Manager/Aloha Aina Homes, LLC Kailua-Kona and Honolulu Hawaii	2004-2005	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Helped to establish new business to manufacture modular homes using light gauge steel frames and trusses in a new plant environment. Left company to start up similar operation in Honolulu. Worked with consultants to plan, develop and implement operating plan. Served as onsite engineer. Defined and implemented Manufacturing Process Management Systems. Documented and implemented standard operating procedures (Safety Manual/Program, Steel Stud Quality Control Manual & Plant Quality Control Manual) and quality standards.		
c.	Kahana Nui Basin Dam, Department of Public Works Kahana, Hawaii	2020-present	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager – Oversaw Hydrological and Hydraulic analysis, Spillway Adequacy Analysis, updated design for outflow intake and dam controls, prepared design report, prepared and submitted application for approval of Plans and Specifications to the Hawaii Dam Safety Program.		
d.	Ala Wai Watershed Flood Mitigation Project, Honolulu, Hawaii	2020	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager – Oversaw hydrologic and hydraulic computer modeling of watershed, developed conceptual designs for flood mitigation solutions, conducted engineering review of USACE flood mitigation plans, performed community engagement and outreach meetings, coordinated activities with stakeholders, agencies, and community.		
e.	North Kawaihae Small Boat Harbor Improvements Kawaihae, Hawaii	2022 (est.)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager - Provided damage assessment reports, construction plans, specifications and cost estimates for the main breakwater, rock revetment, parking lot, boat washdown and drainage improvements, utility upgrades, a drainage evaluation, wave modelling and report, an Environmental Assessment, and all required permits. The main breakwater that is supposed to protect the harbor, has undergone major repairs in the past due to wave damage. The most recent wave damage occurred in January 2020, rendering the marginal wooden wharf and much of the harbor utilities unusable. The proposed improvements will strengthen the compromised breakwater, construct a sand berm along the shoreline to prevent sand from accumulating on the boat ramp and replace or repair damaged infrastructure. Estimated Construction Cost: Main Breakwater - \$4.62 M, Infrastructure Improvements: \$1.16 M		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Michael J. Foley, Ph.D., PE	13. ROLE IN THIS CONTRACT Hydraulic Engineer/Coastal Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 17	b. WITH CURRENT FIRM 17
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i			
16. EDUCATION (Degree and Specialization) Ph.D. Civil Engineering, 2015 M.S. Civil and Environmental Engineering, 2011 B.A. Environmental Science: Concentration in Physics, 2006		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer, Civil Engineering Class, State of Hawai'i (PE-17342)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Dr. Foley is a Civil, Ocean and Environmental Engineer with years of experience in engineering analysis and design services as well as environmental assessment and monitoring projects. His specialties include hydraulic and hydrologic analysis and design, coastal engineering and environmental planning and permitting.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Kahana Regional Beach Erosion Mitigation Lahaina, Hawai'i	2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principle Investigator. Approximately ¾ mile of shoreline developed with nine condominium complexes is exposed to severe shoreline hazards due to beach and shoreline erosion. Dr. Foley lead the design of a shoreline restoration project, assessment of multiple design alternatives, preparation of an environmental impact statement, and community outreach.		
b.	Portlock Road Drainage Outfall Improvements Honolulu, Hawai'i	2015	2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. An existing nearshore breakwater protecting the outlet of an existing at municipal stormwater drainage outfall was damaged. Dr. Foley design a replacement coastal structure to mitigate wave energy, sediment transport and drainage issues at the shoreline. The project involved evaluation of coastal dynamics, innovative structure design, environmental permits, land use entitlements, construction plans, specifications, cost estimate, and post design services.		
c.	Flood Hanalei Fishpond Wetlands, Hanalei, Hawai'i	2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. A development was being planned for a coastal wetland area. Oceanit evaluated the coastal dynamics, shoreline erosion stability, flood hazard areas and elevations, and wetland ecosystem.		
d.	Hale'iwa and Waialua Flood Mitigation Study Waialua, Hawai'i	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. Assessed the existing flood situation for the Helemano/ Paukauila/ Kaukonahua Watersheds and developed conceptual alternatives to reduce flooding in the area. Hydrology and hydraulic modeling was conducted to identify the flood areas and design concepts were developed that may be implemented throughout the watershed to reduce flooding.		
e.	Keōpū-Hienaloli Streams Flood Control Project Kona, Hawai'i	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. Conducted a hydrological analysis of the watershed area including eight flood levels (2-year, 5-year, 10-year, 25-year, 50-year, 100-year, 200-year and 500-year storms). Identified and assessed existing flood control and drainage facilities within the project area. Developed a hydraulic design analysis for a proposed flood reduction plan.		
f.	Chang Property Shoreline Protection Waimanalo, Oahu, Hawai'i	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Provided an emergency, temporary repair design to stabilize the shoreline and reduce the risk to the property. An engineering assessment that used background information provided by the client and historical shoreline erosion data was done to develop options for a longer-term shoreline erosion control. This assessment report was the basis for discussions with DLNR – Office of Conservation and Coastal Lands and other agencies to discuss shoreline protection options. Design fee: \$19,000.		
g.	Lydgate Ponds Repair Project Līhue, Hawai'i	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil / Ocean Engineer responsible for restoration of the Lydgate Park swimming ponds by repairing the existing breakwater and dredging sand material. The scope of work included providing a bathymetric survey, detailed construction plans, specifications, cost estimates, bid proposal, bidding phase services for dredging, dewatering, and disposal of materials. Engineering cost: \$76,950.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Linyan Li Goo, PhD, PE	13. ROLE IN THIS CONTRACT Hydraulic Engineer/Coastal Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 4	b. WITH CURRENT FIRM 4

15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i
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16. EDUCATION (Degree and Specialization) BS Environmental Engineering 2008 MS in Environmental Science and Engineering (2011) PhD in Ocean and Resources Engineering (2018)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) State of Hawaii Professional Engineer License No. 20193
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Yamazaki Y., Bai Y., Goo L.L., Cheung, K.F., Lay, T. (2023). Nonhydrostatic Modeling of Tsunamis from Earthquake Rupture to Coastal Impact. Journal of Hydraulic Engineering. [accepted in March 2023]
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*Li, L., Cheung, K.F. (2018). Numerical dispersion in non-hydrostatic modeling of long-wave propagation. Ocean Modeling. doi: 10.1016/j.ocemod.2019.05.002.

*Li, L., Cheung, K.F., Yue, H., Lay, T., and Bai, Y. (2016). Effects of dispersion in tsunami Green's functions and implication for joint inversion with seismic and geodetic data: a case study of the 2010 Mentawai Mw 7.8 earthquake. Geophysical Research Letters, 43(21), 11182-11191.

*Li, L., Lay, T., Cheung, K.F., and Ye, L. (2016). Joint modeling of teleseismic and tsunami wave observations to constrain the 16 September 2015 Illapel, Chile Mw 8.3 earthquake rupture process. Geophysical Research Letters, 43(9), 4303-4312.

* Work published under maiden name Li

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Kahana Nui Basin Dam Improvements, Maui, Hawaii	ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. Performed Hydrologic and Hydraulic modeling for the Kahana Nui watershed and reservoir using USACE's HEC-HMS and HEC-RAS (2D) model systems; Evaluated downstream flooding effects under various dam improvement alternatives; Prepared Hydrologic and Hydraulic Analysis Report and Downstream Flooding Effects Report.		
b.	Ala Wai Watershed Flood Mitigation, Honolulu, Hawaii	2021	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. Performed hydrologic and hydraulic modeling using HEC-HMS and HEC-RAS for various frequencies of flood events to assess hazards for the Ala Wai Watershed; Evaluated conceptual designs involving a set of tunnels, combined with ideas suggested by the community. Modeling results provided critical information for the design phase.		
c.	Kalakaua Floating Bridge Flow Condition Analysis, Honolulu, Hawaii	2021	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. Conducted hydraulic analysis to evaluate flood impacts of constructing a bridge, crossing Kalakaua bridge, along the Ala Wai Canal. Prepared a report to document the findings and potential impacts on general flood condition in the adjacent areas due to the proposed project.		
d.	Kahana Bay Erosion Mitigation, Kahana, Maui, Hawaii	2019	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Coastal Engineer. Performed wave climate data analysis to define typical swell events for coastal erosion. Developed DEM (digital elevation model) by incorporating multiple data resources including Lidar, Multibeam, and Nautical charts etc. Performed wave modeling using SWAN (Simulating Waves Near Shore) to evaluate wave impacts and worked on beach stabilization structure design.		
e.	Mangrove Eradication at Keehi Lagoon for DOT Airports, Honolulu, Hawaii	2021	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer/Construction Inspector. Conducted periodic BMP and environmental compliance inspections. Prepared written reports and photo log to document work progress. Helped on logistics/coordination/meeting minutes of regular project progress meetings.		
f.	Pahonu Beach Restoration, Waimanalo, Hawaii	ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Engineer. Performed offshore wave buoy data analysis. Collected existing oceanographic data for coastal hazard assessment. Compiled topography/bathymetry data for development of digital elevation model (DEM) around the project site; Created high-resolution elevation maps using ArcGIS; Performed wave modeling.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Jason Y. Lee, P.E.	13. ROLE IN THIS CONTRACT Senior Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 24	b. WITH CURRENT FIRM 2

15. FIRM NAME AND LOCATION (City and State)
Oceanit Laboratories, Inc, Honolulu, Hawai'i

16. EDUCATION (Degree and Specialization) BS Civil Engineering / 1996	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Hawaii, Civil Engineering, No. 13669 Nevada, Civil Engineering, No.15275
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certified Erosion and Sediment Control Plan Coordinator
Computer Skills: AutoCAD, ArcGIS, HEC-1, HEC-2, HEC-RAS, Flo-2D, WSPGW, FlowMaster, CulvertMaster

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Waikiki Aquarium Effluent Discharge System Upgrade Honolulu, Hawaii	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable)

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
Senior Civil Engineer. Evaluated and designed upgrades for the aquatic life exhibit effluent disposal system to meet the NPDES regulatory requirements. Served the role of Project Manager and Technical Lead of the Design Team for the preparation of construction plans, specifications, and cost estimates.

b.	(1) TITLE AND LOCATION (City and State) Saddle Road – West Side Mamalahoa Hwy (SR 190) to MP 41 (Daniel k. Inouye Hwy) Island of Hawai'i, Hawai'i	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable)

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
Senior Engineer. This project was a 10-mile new alignment bypass of the old Saddle Rd. on the Big Island of Hawai'i. The project was performed for the Federal Hwy Administration, the Central Federal Lands Hwy Division, and HDOT-Hwy Division. Responsibilities: Performed hydrologic and hydraulic analyses and recommended drainage improvements to be included in the Preliminary Design Plans.

c.	(1) TITLE AND LOCATION (City and State) Honolulu Rail Transit (East Kapolei to Aloha Stadium) Honolulu, Hawaii	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable)

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
Senior Engineer. Performed hydraulic and scour analysis of the rail columns at the channel/stream crossings near the junction of H2 and Farrington Hwy and near the intersection of Kualakai Pkwy and Hoomohala Ave.

d.	(1) TITLE AND LOCATION (City and State) Lone Mountain/Beltway Detention Basins and Gowan Beltway Chnl Clark County, Nevada	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2008	CONSTRUCTION (If applicable)

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
Senior Engineer. This project consisted of 600 acre-feet dual detention basins connected by a balance conduit with a dual level of outfall flow control & a number of inflow storm drains and channels, including a 2-mile inflow channel that conveys up to 3800 cfs. Responsibilities: Performed hydrologic analyses for a drainage area over 10 sq. mi.; coordinated with another engineering firm in reconciling the hydrology of the project with that of the Las Vegas Valley 2008 Master Plan Update; performed hydraulic analyses and design of the drainage facilities that included dual detention basins, emergency spillways, balance conduit, dual level outfall orifices, stepped spillway channels, inflow storm drains and channels with energy dissipaters; prepared design report; QA/QC of plans and specifications

e.	(1) TITLE AND LOCATION (City and State) Gowan Outfall Lone Mountain Branch – Rancho to Decatur Las Vegas, Nevada	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2008	CONSTRUCTION (If applicable)

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
Senior Engineer. This project was a 2.2-mile storm drain system that consisted of RCBs ranging from 6-ft X 6-ft to 14-ft X 7-ft and conveyed up to 1600 cfs. Responsibilities: Performed hydraulic analyses and design of the 2.2-mile RCB storm drain system that includes the mainline, laterals, and drop inlets; reviewed drawings and plans for quality control and quality assurance; prepared 30%, 70%, 90%, and final hydraulic design reports; identified and resolved utility conflicts; coordinated with City of Las Vegas, Clark County Regional Flood Control, and Nevada Department of Transportation

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Catherine Hanna, EIT	13. ROLE IN THIS CONTRACT Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 9	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc., Honolulu, Hawai'i			
16. EDUCATION (Degree and Specialization) MS Civil and Environmental Engineering / 2012 BS Civil Engineering / 2011		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Engineer in Training, New York, No. 088183	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications: OSHA 10-Hour Training #36-005323436 (2015), OSHA Asbestos Awareness Training #1360 (2021), AHA Heartsaver First Aid CPR & AED (2021)			

Awards: Charles Lee Crandall Award Winner (2010 & 2011), Margaret Arronet Corbin Award Winner (2011), Intel Foundation Research Grant Recipient (2011)

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Water Infiltration into Basement of International Arrivals Building Honolulu, O'ahu, Hawai'i	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. Prepared book specifications for and provided detailing of improvements intended to stop water infiltration into the north and south portions of the Daniel K. Inouye International Airport basement. Researched specialty products and collaborated with manufacturers, distributors and local contractors to determine product suitability. Coordinated details with structural engineering consultant, SLSH.		
b.	State Irrigation System Reservoir Safety Improvements Waimea, Big Island, Hawai'i	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. Civil design and detailing of 40 linear feet of subgrade outlet pipe extension, new concrete intake box at the base, and new valve and valve stem system along the slope of Pu'ukapu Reservoir.		
c.	Kahana Bay Erosion Mitigation Lahaina, Maui, Hawai'i	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. Prepared conceptual plans and details using Civil 3D for the four (4) alternatives considered in the project's Environmental Impact Statement (EIS), intended to develop a sustainable and resilient approach to mitigate regional erosion along 3,700 linear feet of Kahana shoreline. Developed quantity take-offs for each alternative for cost estimating purposes. Contributed to preparation of written content for EIS publication.		
d.	Mantokuji Mission Shoreline Adaption Pā'ia, Maui, Hawai'i	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. Prepared specifications and RFP package for an emergency temporary protection structure, consisting of imported, beach-compatible sand wrapped in geotextile fabric, along 112 linear feet of shoreline fronting the historic temple structure. Coordinated permitting efforts with regulatory agencies, and provided construction administration, including reviewing submittals and responding to RFIs. Prepared preliminary plans and design for the restoration of the sandy beach in Mantokuji Bay, as a permanent solution to the erosion and consequent threat to the temple, to help facilitate discussions with the community and regulatory agencies.		
e.	Ko'a Kea Resort Shoreline Protection Kōloa, Kaua'i, Hawai'i	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. Performed site reconnaissance, involving a site visit and local shoreline recession data collection. Prepared an engineering assessment of the beach and shoreline erosion at the property, assessed adaption options considering cost, constructability, and permitting implications, and developed conceptual plans and details for 165 linear feet of restored beach fronting the resort to reduce risks to public safety and natural resources from shoreline recession. Also developed conceptual plan for comprehensive small-scale beach restoration spanning seven (7) properties along 1,600 linear feet of Kiahuna Beach to incite collaborative discussions between owners.		
f.	Dale Residence Emergency Temporary Shoreline Protection Kapa'a, Kaua'i, Hawai'i	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. Drafted construction drawings and prepared specifications and other contract documents for 77 linear feet of temporary erosion control structure makai of the existing oceanfront erosion escarpment.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Amber Park	13. ROLE IN THIS CONTRACT Landscape Architect / Civil Designer	14. YEARS EXPERIENCE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">a. TOTAL</td> <td style="width:50%;">b. WITH CURRENT FIRM</td> </tr> <tr> <td align="center">15</td> <td align="center">2</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	15	2
a. TOTAL	b. WITH CURRENT FIRM						
15	2						
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i							
16. EDUCATION (Degree and Specialization) Landscape Architecture / 2008 Minor in Communications		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)					
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Proficient in AutoCAD applications; Civil 3D, Carlson CAD, Microstation and MS Office applications (Word, Excel, Powerpoint, Outlook), Adobe Photoshop and SketchUp							

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
a.	Water Infiltration into Basement of International Arrivals Building Honolulu, Oahu, Hawai'i	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Designer. Prepared construction plans for basement repairs intended to stop water infiltration into the north and south portions of the Daniel K. Inouye International Airport basement. Coordinated work with project team and subconsultants.		
b.	Halekulani Hotel Seawall Repairs Honolulu, Oahu, Hawai'i	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil / Landscape Designer. Prepared conceptual and short-term repair construction plans and renderings for several coastal erosion repair concepts. Identified existing conflicts and developed concepts.		
c.	Various Commercial Projects – Pickering Associates West Virginia	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Landscape Architect. Prepared construction documents for commercial projects in the Civil Engineering department using Civil3D Cad software. Drawings included site plans, geometric layout plans, grading plans, utility plans, sediment and erosion control plans and sections and details. Coordinated with local planning departments and utility companies.		
d.	Triple H Enterprises West Virginia	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Civil / Landscape Designer. Prepared conceptual site layout design drawings for construction feasibility and general layout.		
e.	Various Commercial/Industrial Projects – Dieffenbach & Hritz Engineers West Virginia	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Civil / Landscape Designer. Prepared construction documents for commercial/industrial projects in the Civil Engineering department using Microstation software. Drawings included site plans, grading plans, utility plans, and sediment and erosion control plans and sections and details.		
f.	Town Creek Landscape and Construction Company West Virginia	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Landscape Designer. Duties included site surveys, landscape design, and meeting with clients. Assisted in advertising and marketing for company. Created Adobe Photoshop plan Renderings and 3D Modeling in SketchUp.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Om Das, P.E., PMP	13. ROLE IN THIS CONTRACT Construction Project Manager	14. YEARS EXPERIENCE	
		a. TOTAL 12	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i			
16. EDUCATION (Degree and Specialization) B.Tech, Chemical Engineering / 2008 M.S., Civil Engineering / 2011		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Hawaii, Civil Engineering	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Project Management Professional (PMP), OSHA 30-Hour Construction Industry Outreach, OSHA 10-Hour Construction Industry Outreach, LEED Green Associate			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Water Systems Upgrade at the Waikiki Aquarium for the University of Hawaii, Manoa	Current	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Civil Engineer responsible for project management and project design, planning & permitting. Scope of project includes design of injection well system for the discharge of water effluent from the aquarium's exhibits.		
b.	HNL NDWP IIT Mauka Extension, Daniel K. Inouye Intl Airport Honolulu, Hawaii	2021	2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Construction Project Manager responsible for the coordination of project work with the project stakeholders, coordination of design changes with the Owner, Designer & Contractor, inspecting Contractor's work in accordance with the Project Documents and negotiating change orders with the Contractor. Scope of the project included the demolition of the old Commuter Terminal and the construction of the new Inter-Island Terminal Mauka Extension at HNL. Approximate Construction Cost was \$270 Mil.		
c.	HNL HDWP Widen Taxilanes G&L Phase I, Daniel K. Inouye Intl Airport Honolulu, Hawaii	2018	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Construction Project Manager responsible for the coordination of project work with the project stakeholders, coordination of design changes with the Owner, Designer & Contractor, inspecting Contractor's work in accordance with the Project Documents and negotiating change orders with the Contractor. Scope of the project included the widening & full pavement reconstruction of Taxilanes G & L to accommodate ADG-V type aircrafts. Approximate Construction Cost was \$60 Mil.		
d.	Waiahole Water System Improvements for the State of Hawaii, Department of Agriculture Honolulu, Hawaii	2021	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Civil Engineer responsible for project design and permitting. Scope of project included the replacement of four irrigation siphons along the Waiahole Water System Improvements that convey irrigation water from one part of the Island of Oahu to another for agricultural use.		
e.	Lima Ola Work Force Housing Development for Kauai County Housing Agency Kauai, Hawaii	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Civil Engineer responsible for the development of an environmental assessment report, preliminary engineering report and a water model for the project.		
f.	Force Main Condition Assessment for the Department of Design & Construction, City & County of Honolulu Honolulu, Hawaii	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Civil Engineer responsible for developing a work plan for the condition assessment of three wastewater force mains at Kaneohe, Kailua and Halawa and documenting the findings of the condition assessment in an engineering report.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Vicki Spradlin	13. ROLE IN THIS CONTRACT Construction Inspector/Drafting Technician	14. YEARS EXPERIENCE	
		a. TOTAL 16	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i			
16. EDUCATION (Degree and Specialization) Bachelor of Science, 1994 Mechanical Engineering Technology, ABET-accredited Industrial Supervision Minor		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) 30 HOUR OSHA CERTIFICATION			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Construction Management Services for Mangrove Removal and Eradication at Keehi Lagoon, Daniel K. Inouye International Airport Honolulu, HI	2020-2021	2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. In response to FAA wildlife regulations on bird habitats, the project removes large mangrove patches on islands located in the DOT Airport's Ke'ehi Lagoon. Position works closely with DOT Airport personnel and construction contractor to provide comprehensive support services and overall construction management. Daily transport by boat to jobsite for inspections and work observation. Provide detailed written reports and digital photographs to document progress. Conduct meetings. Confirm safety and work quality assurances. Coordination of homeless outreach with DOT personnel. Manage submittals, proposals, change orders, invoices, etc.		
b.	Construction Management Services for Phase 1 of the OST ACM & Air Conditioning Modifications at the Daniel K. Inouye International Airport - Honolulu, HI	ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. Overall construction management services and on-site DOTA representative for pre-construction, construction, and post-construction phases. Initial project constructability review. Initial planning and coordination. Work with construction contractor, subconsultants and SMEs. Perform daily inspection, work observation, and reporting. Conduct meetings with owner. Confirm safety and quality assurances. Manage project budget and billings. Manage submittal responses, RFIs, field orders, change orders, work outages, issues, and disputes.		
c.	Free Electron Laser (FEL) Facility Development The University of Hawai'i Physics and Astronomy Dept., Honolulu, HI	2004-2008	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Consultant/Designer. Facility development under a \$50 million federal grant for defense-related research. Produced multitudes of complex machine designs and drawings (2D & solid models). Special project contributions included laser transport system design, radiation protection system planning, and cleanroom design-build. Vetting and selecting specialty vendors across the U.S. to fabricate over 300 machined and micro-machined components. Wrote technical summaries, coordinated high dollar purchases, established a procurement process to adhere to federal grant guidelines. Quality checks on received system components. Presentations to key stakeholders.		
d.	Lucent Technologies Telcom Infrastructure Installations, Nationwide Lucent Technologies is now Nokia. Client was AT&T.	1996-2002	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Network Systems Engineer/Project Manager - Managed the life cycle of projects with durations varying from three months to two years, with value up to \$4 million. Project scopes included engineering, materials, and installations for local exchange services, 5E switches, and leased space arrangements. Discipline areas included building network infrastructure, network equipment, power supplies/cabling and transmission cabling. Also worked with sales, engineering, and installation teams to develop winning proposals, budgets, and schedules.		
e.	Industrial Mixing Systems Design / Flow Process Technologies, Inc. Houston, Texas	1994-1996	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Applications Engineer for firm that designs and manufactures proprietary static mixing equipment for petroleum, water treatment, food, and other industrial processes. Provide customer/process analysis, R & D, innovative solution design, technical summary reports and CAD/drafting. Key contributor development of turnkey systems for Nalco Chemical's various water treatment processes and Allied Signal's (now Honeywell) circuit board coating processes.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Jordan Moniuszko, PE CCM	13. ROLE IN THIS CONTRACT Environmental/Civil Engineer, Construction Manager	14. YEARS EXPERIENCE	
		a. TOTAL 14	b. WITH CURRENT FIRM 9
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i			
16. EDUCATION (Degree and Specialization) B.S. / 2009 / Mechanical Engineering B.S. / 2009 / Environmental Science		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Hawaii / Civil Engineering / 2018	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) 2009 / SCUBA Open Water; 2009 / Environmental Compliance Training and Tracking System; 2010 / OSHA 30 Hour Construction Safety & Health; 2010 / National Pollutant Discharge Elimination System Awareness; 2013 / CPR & First Aid; 2013 / OSHA 24 Hour Confined Space Competent Person; 2014 / Hawaii DOBOR Safe Boating; 2021 / OSHA 2 Hour Asbestos Awareness			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Waikiki Aquarium Effluent Disposal System Upgrade Honolulu, Hawai'i	Ongoing	2024 (Est.)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for this project to evaluate, permit, and design upgrades to the aquatic life exhibit effluent disposal system in order to meet updated NPDES regulatory requirements. The team consisted of civil, electrical, and mechanical engineers, biologist, hydrogeologist, and aquatic life support system specialist.		
b.	Anahola Farm Lots Subdivision Water System Improvements Anahola, Hawai'i	Ongoing	2022 (Est.)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer for this project to replace a rural subdivision 0.5 MG water tank, water transmission lines and appurtenances, and install a system interconnection with County water system. The team consisted of civil, structural, mechanical, and electrical engineers.		
c.	IAB Basement Water Infiltration Repairs at Daniel K Inouye Intl Airport Honolulu, Hawai'i	Ongoing	2023 (Est.)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer for this project to investigate sources of and design repairs for flooding to the basement of the overseas terminal at Honolulu International Airport. A variety of techniques were used to scan concrete and gather data to confirm sources of water infiltration. Final design includes repairs to floor slab, exterior and interior drainage improvements, and new floor slab installation.		
d.	Salt Lake Watershed Structural BMP Implementation Salt Lake, Hawai'i	2021	2022
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer for this project to install remote sensors and stormwater samplers, collect water quality and meteorologic data, develop and calibrate a watershed model, model various BMP scenarios, design various structural stormwater Best Management Practice measures, and provide construction management services at Salt Lake Watershed in urban Honolulu.		
e.	Ka'elepulu Pond & Wetland Environmental Maintenance Dredging Kailua, Hawai'i	Ongoing	2022 (Est.)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design Engineer and Construction Manager for an ecosystem restoration project to reconnect two estuarine bodies of water located in Windward Oahu. Federal, State and local permits and implementation of associated regulatory conditions were required prior to construction.		
f.	Kahalu'u Flood Control Lagoon Maintenance Dredging Kaneohe, Hawai'i for Department of Design and Construction	2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer for this windward Oahu maintenance dredging and upland disposal project currently in progress for the City and County of Honolulu. Wrote and executed Sediment Sampling and Analysis Plan. Performed upland disposal scenario and cost estimate analysis. To perform design and services during bidding.		
g.	Kawainui Stream Flow Restoration Kailua, Hawai'i for Department of Land and Natural Resources	2015	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer for this environmental remediation project. Designed and installed a temporary levee overflow siphon to return flow to the Kawainui Stream and Hāmākua Marsh from the Kawainui Marsh in an experimental study. Gathered water quality data from before and after the temporary siphon installation. Preliminary design of a permanent siphon constructed through the levee.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Bryan Fong	13. ROLE IN THIS CONTRACT Project Engineer, Construction Inspector	14. YEARS EXPERIENCE	
		a. TOTAL 5	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i			
16. EDUCATION (Degree and Specialization) University of Hawaii BS Civil Engineering / 2016		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Hawaii, Civil Engineering, No.	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	State of Hawaii, Department of Transportation, Highways Division Oahu District Engineer 1-11		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Review and approve permit requests for oversized and overweight vehicle movement, Use and Occupancy of State Highways, permits to perform work on State Highways. Input lane closures into ArcGIS to inform public of lane closures. Solicits bid offers for State Maintenance contracts through HlePro system by drafting SOW, estimated bid amounts, relevant standard specifications and drawings, wage-rate and scale and general terms and conditions. QA/QC liaison for bridge inspection program in coordination with the Federal Highway's Administration for the purposes of performing inspections as well as monitoring contractors ensuring compliance with best practices.		
b.	Construction Management Services for Phase 1 of the OST ACM & Air Conditioning Modifications at the Daniel K. Inouye International Airport Honolulu, HI	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. Overall construction management services and on-site DOTA representative for construction and postconstruction phases. Work with construction contractor, subconsultants and SMEs. Perform daily inspection, work observation, and reporting. Conduct meetings with owner. Confirm safety and quality assurances. Manage project budget. Manage submittal responses, RFIs, field orders, change orders, work outages, issues, and disputes.		
c.	Nimitz Highway Void Investigation Phase 2 Honolulu, HI	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. Review of existing field inspection data, as-builts, and surveys locating the alignment of storm drain lines in which fine material is possibly seeping through causing undermining of the road. Coordinate with subconsultants coordinating the procurement of temporary street usage permits for temporary traffic control devices, and necessary BMP measures that need to be implemented during preconstruction, construction, and post-construction phases.		
d.	Waikiki Aquarium Effluent Disposal System Upgrade Installation of Flowmeters Honolulu, Hawai'i	2022	2022
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Erosion and Sediment Control Plan coordinator and field inspector. Conducted weekly BMP inspections during construction of design-build project ensuring that the contractor follows the designer's erosion and sediment control plan. Documenting and recording inspection data and working with the contractor to address deficiencies. Develop Environmental Assessment on utility conflicts with new effluent disposal system upgrades.		
e.	Emergency repairs at Kaipapau Stream Bridge Hauula, HI	2021	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager. Scope out emergency repairs in conjunction with design engineer. Contract and procurement of funding sources. Plan and coordinate work schedule with contractor including BMPs and environmental compliance protection measures. Document and record daily construction progress and reporting.		
f.	Repave Kamehameha Highway from Waihona Street to Kuala Street Pearl City, Hawai'i	2022	2022
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager. Scope paving limits and depth. Procure construction services and funding and award to lowest bidding contractor. Plan schedule, traffic control, lane closures, BMPs, and Environmental compliance with contractor during repaving efforts. Daily field inspection and report documentation.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Berna Cabacungan Senelly	13. ROLE IN SERVICE CATEGORY Planning and Permitting	14. YEARS EXPERIENCE	
		a. TOTAL 38 yrs	b. WITH CURRENT FIRM 1.5 year
15. FIRM NAME AND LOCATION (City and State) Oceanit, Honolulu, Hawai'i			
16. EDUCATION (DEGREE AND SPECIALIZATION) BA (English) University of Hawaii 1976		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Kahana Bay Erosion Mitigation Project Environmental Impact Statement Kahana, Hawai'i	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Project Coordinator. Services include team management, writing, research, agency consultation, community outreach, consultant report review, editing and processing in compliance with HRS 343 and HAR Title 11-200 and 11-200.1.		
b.	(1) TITLE AND LOCATION (City and State) Waikiki Aquarium Water System Upgrade Environmental Assessment and Permits	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Project Coordinator. On EA, services include team management, writing, research, agency consultation, community outreach, consultant report review, editing and processing in compliance with HRS 343 and HAR Title 11-200 and 11-200.1. On permits, services include research, consultation and application preparation and processing		
c.	(1) TITLE AND LOCATION (City and State) Menu of Coastal Hazard Adaptation Strategies Suitable for Hawaii	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Project Manager: Development of an informational resource for the Hawai'i Coastal Zone Management Program outlining a menu of coastal hazard adaptation strategies that could be used in Hawai'i given our regulatory framework. Deliverable included a multi-layered website that contained over 40 strategies, their regulatory framework, pros and cons, case studies and references.		
d.	(1) TITLE AND LOCATION (City and State) SandSaver Installation Pilot Project at Kualoa and Waimanalo Beaches	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Permit Manager: Coordinate all aspects of land use and permit approvals for a DOT HWY pilot project to mitigate erosion impacts on adjacent roadways by using the SandSaver system to trap and retain beach sand along the shoreline. The retention of sand may help stabilize an eroding embankment and provide protection to the highway, while also enhancing the environmental, cultural, and recreational use of the public beach areas.		
e.	(1) TITLE AND LOCATION (City and State) Shoreline Protection at Niaupala Fishpond, Molokai	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE [] Check if project performed with current firm Permit and community outreach coordinator: Manage land use and approval processes and community outreach program on Dept of Transportation project to restore a portion of Route 450 Kamehameha V Highway that has been severely undermined and damaged and poses safety risks and commuting disruptions.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Dale Uno	13. ROLE IN THIS CONTRACT Community Outreach Specialist, Organizational Change Management Specialist	14. YEARS EXPERIENCE	
		a. TOTAL 22	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i			
16. EDUCATION (Degree and Specialization) BA English Literature (1994)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Proficient in both Windows and Mac operating systems, as well as in the use of industry-standard software programs: Word, Excel, Outlook, PowerPoint, Photoshop, and Quickbooks Pro.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Ala Wai Watershed Flood Mitigation Project Honolulu, Hawai'i	2020	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Community Outreach Specialist. Facilitate Oceanit's engagement with members of the community, elected officials, government agencies, and organizations.		
b.	Kahana Bay Erosion Mitigation Project (Kahana, HI)	ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Assisted in preparation the EIS Preparation Notice and Draft EIS for beach restoration at Kahana Bay, Maui. Assisted in responses to hundreds of public community and agency comments.		
c.	Moloaa, Waimea Water Supply (Kauai, HI)	2022	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Helped resolve a boundary dispute involving the Kauai Department of Water, DAGS Land Survey Division, DLNR and DOT. The resolution requires updating of a survey map and the description on the legal document.		
d.	Organizational Change Management for Hawaii Gas' Project FOCUS (For Our CUSTOMERS) (Hawaii statewide)	2021-2023	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Community Outreach Specialist. Assisted with conducting Design Thinking workshop for the project's core team and numerous individual and group stakeholder meetings; engaged clients in industry-standard methods and practices to guide them through a structured OCM approach that yielded a comprehensive stakeholder analysis matrix, as well as a deep understanding of individual and group needs. Developed and implemented an OCM plan that provided a structure for engaging with stakeholders through each phase of the project. Managed documentation of interactions with clients and stakeholders; maintained several logs and issue trackers. Drafted and submitted final report which included lessons learned and recommendations as requested by the client.		
e.	Kauai Kailani (Kauai, HI)	2021	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Facilitated introduction of concurrent resolutions in both houses of the Legislature which was a requirement for an easement needed for the project; liased with DLNR and kept clients updated on status of the legislation; HCR 166 was adopted by the Legislature.		
f.	North Kawaihae Small Boat Harbor Improvements (Kawaihae, HI)	2021-2023	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Researched pre-consultation list; assisted with pre-consultation process and managed documentation. Environmental Assessment drafting and editing.		
g.	Waikiki Aquarium Effluent Discharge System Upgrade (Honolulu, HI)	2023	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Environmental Assessment drafting and editing.		

Key Personnel Resumes
Subconsultants



Craig Meierhoffer PE, SE

Associate

Mr. Meierhoffer has two decades of experience as a structural engineer. He has worked on projects of all types including military facilities, high-rise residential towers and commercial structures. His primary responsibilities include project management, structural design, and construction administration.

RELEVANT PROJECT EXPERIENCE:

- **OGG ConRAC**, Kahului, HI. The four-level, 1.85 million SF Consolidated Rental Car Facility (ConRAC) consists of a Customer Service Building; Ready/Return structure; and Quick Turnaround Area.
- **DOTA T-Hangar at Kalaeloa**, Kapolei, HI. Design-build of a 12,000 SF pre-engineered, metal framed, light gauge steel structure, intended for storage of general aviation aircraft.
- **Keahuolu Courthouse**, Kona, HI. A three-story judicial facility occupying approximately 150,000 SF and includes an approximately 10,000 SF mechanical building/enclosure.
- **UH Manoa New Multi-Family Mixed-Use Rental Project**, Honolulu, HI. 19-story and 15-story residential tower that includes a child-care facility and retail spaces. The units are anticipated to be affordable rentals for 400 graduate students and junior faculty.
- **KOA Terminal Modernization Program Phase 1**, Kona, HI. Contractor-assistance work including visual observation of existing structures to be demolished.
- **KOA Federal Inspection Services Building**, Kona, HI. Structural assessment of the existing structures to be demolished to make space for the new Federal Inspection Services Building.
- **Keaukaha Air National Guard - Upgrade Building Complex**, Hilo, HI. Upgrades to buildings to replace all existing jalousie louvered windows with energy efficient, double pane windows that meet AT/FP requirements.

EDUCATION:

- BSCE, Georgia Institute of Technology

REGISTRATIONS:

- Registered Structural, Civil, or Professional Engineer in CA, HI, KS, NV, OH, VA, and WA.

PROFESSIONAL ACTIVITIES:

- Vice President, Structural Engineers Association of Hawaii
- Member, American Society of Civil Engineers

PUBLICATIONS:

- "Maui's Kahului Airport ConRAC," *STRUCTURE*, October 2019.

E. RESUMES OF KEY PERSONNEL PROPOSED WHO WILL PROVIDE SERVICES FOR THIS PROJECT CATEGORY

(Complete one Section E for each key person.)

11. NAME James Kwong, PhD, P.E.	12. TITLE SERVICE PROVIDED Principal Geotechnical Engineer	13. YEARS OF EXPERIENCE	
		A. TOTAL 38	B. WITH CURRENT FIRM 14

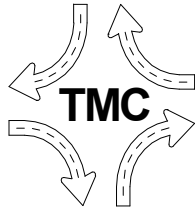
14. FIRM NAME AND LOCATION (City and State)
Yogi Kwong Engineers, LLC, Honolulu, Hawaii

15. EDUCATION (Degree and Specialization) Ph.D., Geotechnical Engineering Properties and Engineering Geology of Tropical Soils and Rocks M.S., Engineering Geology and Geotechnics	16. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Hawaii - Civil Engineer – PE-6948 – Expires 04/30/2020 United Kingdom - Chartered Engineer
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17. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, Etc.)
Dr. Kwong has more than 38 years of experience in managing and performing geotechnical and geological engineering investigations and construction management in Hawaii and the Pacific Basin. He has performed geotechnical engineering investigations including numerous high profile dam investigation and landslide projects. Projects managed by Dr. Kwong have won 12 national and 26 state awards for engineering excellence. He has published over twenty technical articles on geotechnical engineering in national engineering journals and was honored as the 2010 Engineer-of-the-Year by the Hawaii Council of Engineering Societies.

18. RELEVANT PROJECTS

	1. TITLE AND LOCATION (City and State)	2. YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	State Irrigation System Reservoir Safety Improvements Project Oahu, Molokai, Kauai and Big Island, HI	On-Going	On-Going
	3. BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal-in-Charge for the statewide safety evaluation and embankment improvements project on eight (8) dams situated in Kauai, Hawaii, Molokai, and Oahu. Prepared construction bid documents, including plans and specifications, and permitting materials. Dam improvements on Molokai and Oahu are complete.		
b.	DLNR Hawaii Dam and Reservoir Safety Program - Dam Safety Phase I Investigations Various locations on Oahu, Hawaii	On-Going	N/A
	3. BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal-in-Charge. Provided geotechnical investigations at four (4) dams located on Oahu, namely Wahiawa Dam, Kemoo 5, Upper Helemano, and Opaoula 01. Performed a safety assessment of the four dams and appurtenant structures based on on-site inspections, a review of previous dam investigation reports, and analyses of records to support DLNR's identification of potential dam safety deficiencies and the need for repairs, operational changes, modifications, or additional analyses.		
c.	Opaoula Reservoir No. 2 - Dam Decommissioning Haleiwa, Oahu, HI	2013	2013
	3. BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal-in-Charge. Provided geotechnical review of the proposed dam removal plans and slope stability evaluation. Performed geotechnical reconnaissance and investigation, and conducted stability analyses in support of dam decommissioning.		
d.	Paaui Dam Safety Evaluation Paaui, Hawaii	2008	N/A
	3. BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal-in-Charge. Conducted Phase I safety inspection of reservoir dam and appurtenant structures. Performed on-site visual observations and reviewed available records for existing dam safety deficiencies, and provided recommendations for Phase II studies.		
e.	Wahikuli Dam Safety Evaluation and Decommission Lahaina, Maui, Hawaii	2013	2013
	3. BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal-in-Charge of the decommissioning of the reservoir by breach of embankment. Reviewed available records, conducted geotechnical reconnaissance including exploratory borings and geophysical surveys, conducted slope stability analysis and provided geotechnical recommendations in support of construction bid document preparation. Construction Cost: \$6 million		
f.	Opaoula Reservoir No. 1 – Dam Improvements Haleiwa, Oahu, HI	2007	2010
	3. BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal-in-Charge. Performed Phase II geotechnical investigation of existing earth dam and spillway. Directed field geotechnical exploration of the dam embankment and conducted a slope stability analysis using finite element modeling methods.		



THE TRAFFIC MANAGEMENT CONSULTANT

Randall S. Okaneku, P.E., Principal * 1188 Bishop Street, Suite 1907 * Honolulu, Hawaii 96813
 Telephone: (808) 536-0223 * Facsimile: (808) 537-2985 * Email: TMCHawaii@aol.com

RESUME OF RANDALL S. OKANEKU, P.E.

Mr. Okaneku is a traffic engineer and transportation planner whose professional career has spanned the field of transportation engineering since 1977: from highway and traffic signal design at a Hawaii-based consulting engineering firm and traffic operations and design at the City and County of Honolulu Department of Transportation Services; to specialization in traffic engineering and transportation planning and the founding of The Traffic Management Consultant in 1989. Mr. Okaneku has been a Licensed Professional Civil Engineer in the State of Hawaii, since 1980.

Record of Experience

The Traffic Management Consultant, Principal and Founder – 1989 to the Present
 Austin, Tsutsumi & Associates, Inc., Principal Traffic Engineer – 1981 to 1989
 Dept. of Transportation Services, C&C of Honolulu, Ass't. Leeward District Engineer – 1980 to 1981
 Austin, Tsutsumi & Associates, Inc., Civil Engineer I through IV – 1977 to 1980

Education

Master of Business Administration – University of Hawaii, 1987
 Master of Science in Civil Engineering/Transportation Engineering – University of Hawaii, 1978
 Certificate in Planning Studies – University of Hawaii, 1978
 Bachelor of Science in Civil Engineering – University of Hawaii, 1976
 Short Courses in Traffic Engineering, Highway Design, and Transportation Planning –
 Northwestern University, Georgia Institute of Technology, University of Wisconsin, Institute of
 Transportation Engineers, Trafficware

Past Projects

Project	Client	Description
Kawaihae Road and South Kohala Distribution Road	Community Planning and Engineering, Inc., Anson Murayama Ph. (808)-521-7491	Preparation of a Traffic Access Analysis Report
DHHL Lalamilo Subdivision	PBR Hawaii, Tom Witten, Ph. (808) 521-5631	Preparation of a Traffic Impact Analysis Report for inclusion in the Environmental Assessment.
Kinoole/Kilauea Traffic Circulation Study	County of Hawaii, Ben Ishii, Ph. (808) 961-8327	The study analyzed the traffic circulation of Kinoole Street and Kilauea Avenue between Ponohawai Street and Puainako Street.
Kamakana Villages at Keahuolu	Group 70 International, Inc., Jeff Overton Ph. (808) 523-5866	Preparation of a Traffic Impact Analysis Report.
W.H. Shipman Keaau Master Plan	W.H. Shipman, Kimo Lee Ph. (808) 966-9325	Preparation of Traffic Impact Analysis Report, including the access impacts at the intersection of Volcano Highway and Keaau Bypass Highway.



JENSON SANTOS, P.E., CCM

PROJECT MANAGER / CONSTRUCTION MANAGER

>PROFILE

Jenson Santos has been with the firm for 14 years and has over 16 years of experience. Mr. Santos' responsibilities include overseeing other electrical engineers and designers, managing and designing his own electrical projects while coordinating with other disciplines involving electrical designs of government, residential, commercial, and industrial projects throughout the State of Hawaii, Pohnpei, Kwajalein, and Guam.

Mr. Santos' electrical experience includes primary, secondary, and telecommunication site distribution systems; utility infrastructure distribution systems; office buildings; commercial, retail and industrial facilities; government and military facilities; sports and recreation centers; interior and exterior lighting systems; photovoltaic systems; telemetry and SCADA systems; pumping stations; treatment plants; roadway lighting systems. Mr. Santos performs quality control reviews on other engineer's designs; performs major property and facility condition assessments; preliminary engineering reports; feasibility studies; and master planning.

>EDUCATION / REGISTRATION

Education: Bachelor of Science, University of Hawaii, 2002
Registration: Electrical License No. 14286, Expiration Date 04/30/22
Training: Electrical Safety NFPA 70E W/Arch Flash Protection, 2011; 101 PTW Software Standard, 2015; 102 PTW Software Advanced, 2015; Certified Construction Manager, 2016


>EXPERIENCE

- Daniel K. Inouye International Airport (DKIIA) Diamond Head Expansion Conceptual Planning | Honolulu, HI
- DKIIA DH Extension Development Plan and Infrastructure Study | Honolulu, HI
- Kalaeloa Airport Terminal Roof Replacement | Honolulu, HI
- Kalaupapa Airport Electrical System Upgrade | Kalaupapa, HI
- Kahului Airport Installation WW WWTS | Kahului, Hawaii
- Kona International Airport USDA Inspection Building | Kona, HI
- Lagoon Drive Shell Service Station Demolition and Lighting | Honolulu, HI
- Kalia Road / Maluhia Road Intersection Improvements | Honolulu, HI
- Kapiolani Boulevard Street Lighting Replacement | Honolulu, HI
- Kaaawa Fire Station Communication Facility Improvements and Tower Replacement | Kaaawa, HI
- University of Hawaii at Manoa, Campus IT & Electrical Master Plan UHM14-541-410 | Honolulu, HI



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Andrew R. Petersen, P.E.	13. ROLE IN THIS CONTRACT Mechanical Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 11	b. WITH CURRENT FIRM 10
15. FIRM NAME AND LOCATION (City and State) Okahara and Associates, Inc. Honolulu, Hawaii		 Okahara & Associates, Inc. ENGINEERING CONSULTANTS	
16. EDUCATION (DEGREE AND SPECIALIZATION) BS Mechanical Engineering, University of Hawaii, Manoa, 2007		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) 2015, Mechanical, Hawaii PE-16815	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Society of Heating, Refrigerating and Air-Conditioning Engineers – Member, American Society of Plumbing Engineers – Member, Association of Pool & Spa Professionals - Member			

19. RELEVANT PROJECTS

#	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Building 2 Renovation, CG Sector Guam Apra Harbor, Guam (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Role: Lead Mechanical Engineer. Scope: The project intent was to replace failing air conditioning systems, domestic hot water system and restroom fixtures serving a 3,000 sq ft office building. Design criteria included measures to implement or improve energy savings, individual zone control, ease of maintenance and system reliability. Mechanical Cost: \$182,000	2013	2015
b.	Smithsonian Institution Energy Model and Photovoltaic Assessment @ SAO Base and Submillimeter Array Facilities Hilo & Mauna Kea, Big Island, Hawaii (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Role: Lead Mechanical Engineer. Scope: The intent of this task order was to prepare a building energy and water model to establish an annual consumption baseline and to evaluate and recommend viable energy efficiency measures based on simple payback and life cycle cost analyses. Mechanical Cost: \$600,000	In Progress	N/A
c.	Strategic Energy Master Plan for Punahou School Honolulu, Oahu, Hawaii (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Role: Lead Mechanical Engineer. Scope: The overall project intent was to determine the campus' maximum on-site renewable energy generation and Net-Zero potential by developing a strategic energy master plan. Mechanical scope included the preparation of an annual energy consumption baseline as well as the evaluation and recommendation of HVAC related energy efficiency measures based on energy savings potential, payback analysis and life cycle cost analysis. Mechanical Cost: \$9,000,000	2017	N/A
d.	Hale Kanahoahoa Replace Air Conditioning System and Reroof Halawa, Oahu, Hawaii (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Role: Project Manager, Lead Mechanical Engineer. Scope: The project intent was to replace failing air conditioning equipment and reroof the Department of Agriculture's Animal Industry Laboratory. Mechanical scope included the replacement of exhaust fans, fume hood fans, an air cooled chiller and air handling units. Mechanical Cost: \$700,000	2017	N/A
e.	Wahiawa District Park Pool Pump Room Repairs Wahiawa, Oahu, Hawaii (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Role: Lead Mechanical Engineer. Scope: The project intent was to replace failing circulation system and provide structural improvements for the pump room. Mechanical scope included reconfiguration of the pump room layout to improve maintenance clearances and selection of new pump and VFD for energy efficient operation. Mechanical Cost: \$200,000.	2016	2017

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

11. NAME Max Solmssen, MURP	13. TITLE SERVICE PROVIDED Compliance Consultant	13. YEARS EXPERIENCE	
		a. TOTAL 11	b. WITH CURRENT FIRM 1
14. FIRM NAME AND LOCATION (City and State) Kaimana Environmental Solutions LLC, Honolulu, Hawai'i			
15. EDUCATION (DEGREE AND SPECIALIZATION) BA, English Literature, 2002 M.A. Urban and Regional Planning		16. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Hawaii Association of Environmental Professionals (HAEP) member	
17. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) HAZWOPER certified, 8-hour HAZWOPER Supervisor certified, OSHA 10-hour construction industry outreach training certified, Adult CPR/Standard First aid Certified, State of Hawaii Lead-based paint inspector, State of Hawaii Asbestos inspector			

18. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	Honolulu International Airport Modernization Plan Environmental Support, Honolulu, Oahu, Hawai'i		
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project manager providing environmental guidance for collecting multi-incremental samples from stockpiled soil, reporting laboratory analytical results and providing management of impacted soils (i.e.; disposal of pesticide and petroleum-impacted soils). Also provided management of surface water and sediment sampling that complies with the provisions of the U.S. Clean Water Act and other state regulations.		
b.	Honolulu International Airport Modernization Plan Environmental Assessment for Mauka Concourse, Honolulu, Oahu, Hawai'i		
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Planner/Technical writer responsible for research, writing EA sections & coordinating with subcontractors for a NEPA & Chapter 343 compliant EA. The Modernization Program is a 12-year, comprehensive program to improve and upgrade the airport to accommodate larger aircraft and newer maintenance and airline operations facilities. Tasks included conducting research, analyses and field reconnaissance and assisting in document preparation.		
c.	Red Hill bulk fuel storage facility long-term groundwater, fuel product and soil gas monitoring, Halawa, Oahu, Hawai'i		
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Served as a project manager tasked with providing equipment, labor and material required to conduct quarterly groundwater sampling at five wells located within the storage facility. Collected monthly soil vapor samples and conducted monthly fuel product monitoring.		
d.	Storm Water Pollution Control Program (SWPCP) Honokaa, Hawai'i		
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Environmental Scientist responsible for field inspection and report writing for HDOT Highways, Honokaa Baseyard.		
e.	Lead based paint, asbestos and PCB inspections (JBPHH) Pearl Harbor, Hawai'i		
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Field manager responsible for developing and executing sampling plans, field work and reporting and various regulated environmental media in support of operations at a key facility at JBPHH.		
f.	Underground Storage Tank (UST) closure for NAVFAC Pearl Harbor, Hawai'i		
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Field manager for the removal and closure of a buried UST found during construction at JBPHH. Completed confirmation soil and rinsewater testing in accordance with the State of Hawaii DOH UST closure regulations.		
g.	Various Phase 1 and 2 Environmental Site Assessments (ESA) Hawai'i		
	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Managed field teams and technical writers for Phase 1 ESAs and follow-up Phase 2 investigations for golf courses, former agriculture lands and dry cleaner sites on Oahu, Maui and Hawai'i island.		



Wayne M. Teruya Vice President

Wayne M. Teruya is Vice President for Park Engineering. Wayne is also the Principal Land Surveyor, with management and administrative responsibilities for the firm's field surveying services. In this capacity, he is responsible for the accuracy, completeness, and quality of the work product; for adherence to the work schedule; and for completing the work within budget. In addition, Wayne is responsible for preparing and negotiating the scope of work and fee proposals for all surveying work that is performed in support of the firm's design projects and for work performed for other clients. Wayne is also responsible for the cadastral mapping work, which includes compilation of existing boundary and easement data, calculation of subdivisions and preparing legal descriptions.

Experience

Wayne has over 43 years of surveying experience, including engineering, topographic, hydrographic, boundary, control, and construction surveys. This experience includes planning and coordination of field surveys, performing field surveys, reducing and compiling field data, preparing calculations, subdivision mapping/processing, and preparing submittal to clients.

Some of DOT projects include Storm Water Management Program Plan, various locations; Height Modernization Facilities, Digital Leveling, Oahu, Phase 2, various locations; and other projects such as Mailiili Road Emergency Repairs of Drainage Culverts, Bridge and Road Design; Kamehameha Avenue Reconstruction; and Kaunualii Highway Improvements (Phase 1).

Education

Honolulu Community College, A.S., Engineering Technology (Surveying), 1975
University of Hawaii, B.S., Geology and Geophysics, 1980

University of Maine, Orono GPS-GAP
GPS – Adjustments with Observation Equations, 2006
GPS – Three-Dimensional Geodetic Model, 2007
GPS – Fundamental of Satellite Positioning, 2007

NOAA National Geodetic Survey
Geodetic Digital Leveling, 2011

Licensing

Licensed Land Surveyor – 6297, 1988, Hawaii
Land Court Surveyor – 227, 1990, Hawaii
Licensed Land Surveyor – 7677, 2000, California

Professional Affiliations

Hawaii Land Surveyors Association
National Society of Professional Surveyors



Hallett H. Hammatt, Ph.D., Principal / President

Education:

- 1976 Ph.D. - Anthropology, Washington State University
- 1967 M.A. - Archaeology (with Honors), University of Edinburgh, Scotland
- 1963 B.A. - History (with Honors), University of Pennsylvania

Qualifications:

- Founded CSH in 1982, has been active in the field of archaeology and historic preservation for over 40 years, and has been at the forefront of shaping state historic preservation practices
- Consults on historic preservation matters with many government agencies and private companies and is widely experienced in handling multidisciplinary studies, large and complex projects including intensive surveys, data recovery, and site protection and interpretation
- Proficient in and conducts training on federal historic preservation regulations including NHPA Section 106 and NAGPRA, is an expert in Hawaii's §6E historic preservation compliance process, and has presented testimony as an expert witness in Hawaiian archaeology at more than 30 public hearings and legal proceedings

Special Training, Honors, and Certifications:

- Served, by Governor Appointment, on the State of Hawai'i Review Board of Historic Places for 8 years
- 2012 Frank Haines Award for exemplary achievement in the field of historic preservation presented by the Historic Hawai'i Foundation
- First Aid / CPR (Current); HART's Safety/Environmental Orientation Training

Representative Experience:

- Supplemental Archaeological Inventory Survey and Burial treatment plan for two burial caves for the Waialae 180' Reservoir, Lot A Project Wai'ala'e Ahupua'a, Honolulu (Kona) District, O'ahu
- Archaeological monitoring of ground disturbing work and report for the Water Main Replacement at Ward Avenue, Honolulu, O'ahu
- Archaeological inventory survey for the Kamaile Plantation Wells and Production Wells Sites, Wai'anae (Kai) Ahupua'a, Wai'anae District, O'ahu
- Burial treatment plan for two burial caves for the Waialae 180' Reservoir, Lot A Project Area, Wai'ala'e Ahupua'a, Honolulu District, O'ahu
- Archaeological monitoring of ground disturbing work and report for the University Avenue 12-Inch Water Main, Part II Project, Mānoa, Waikīkī Ahupua'a, Honolulu (Kona) District, O'ahu
- Archaeological Monitoring Plan for the BWS Pensacola Street Water System Improvements Project Between Kīna'u Street and Kapi'olani Boulevard, Kaka'ako, Honolulu Ahupua'a, Honolulu (Kona) District, O'ahu
- Archaeological Monitoring Plan for the BWS Pensacola Street Water System Improvements Project Between Kīna'u Street and Kapi'olani Boulevard, Kaka'ako, Honolulu Ahupua'a, Honolulu (Kona) District, O'ahu
- Archaeological Monitoring Plan for the Revised Kahanahou Wastewater Pump Station Upgrade and Sewer Improvements Project, Kāne'ohe Ahupua'a, Ko'olaupoko District, O'ahu
- Archaeological Monitoring Report for the Waimānalo District Park Sewer Improvements Project, Waimānalo Ahupua'a, Ko'olaupoko District, O'ahu

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Kevin Gooding, CPG		13. ROLE IN THIS CONTRACT Project Manager, Geology Technical Lead		14. YEARS EXPERIENCE	
				a. TOTAL 27	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION <i>(City and State)</i> INTERA Incorporated, 74 Kihapai Street, Kailua, HI 96734					
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MS, Geology BS, Environmental Science			17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Certified Professional Geologist (American Institute of Professional Geologists)		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Member-American Water Works Association, Member-American Institute of Professional Geologists, Member-Geological Society of America, Member-Association of Environmental and Engineering Geologists					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION <i>(City and State)</i> Groundwater Use Reporting Outreach - Field Verification and Compliance for Maui and Molokai, HI		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Project Manager and Hydrogeologist.</i> Conducted site visits, gathered information and trained the owner/operator in water use reporting for the State of Hawaii. The purpose was to document well site conditions, general water end use status and provide training in order. Cost: \$220,010			<input type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION <i>(City and State)</i> Hydrogeological Services for the Kahului Well 11 and Compliance Project for Maui and Molokai, HI		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> 2018-2019	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Project Manager and Hydrogeologist.</i> Hawaiian Electric Company (HECO) is assisting Maui Electric Company (MECO) in drilling a replacement well for Kahului Well 11 at their Kahului Power Plant. The power plant wells are high-capacity (4000 gpm) wells supplying cooling water to the power plant. Well 11 and 12 supply water to Generating Unit 1. Maui Electric is a relatively small grid and each unit is critical for the island grid reliability. INTERA provided construction oversight services during the drilling of the test core hole. Staff were always onsite during drilling. HECO and subsidiary company MECO have strict environmental and health and safety rules. Compliance with OSHA and Clean Water Act rules were critically important. The drilling site was very small and was also in use for other plant operations. Rob Sengebusch and Kevin Gooding of INTERA managed the drilling of the borehole, collected hydrogeologic data and assisted the team in compliance with environmental and safety rules. The data collected from the borehole was essential in preparing the final production well design. Well construction is complete but HECO is waiting for the arrival of the production pump to conduct the final hydraulic testing. Cost: \$85,180			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION <i>(City and State)</i> Geological Services Caltech Submillimeter Observatory (CSO) Decommissioning, Maunakea, HI		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2018-2019	CONSTRUCTION <i>(If applicable)</i> N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Project Manager and Hydrogeologist.</i> The California Institute of Technology (Caltech) plans to decommission the Caltech Submillimeter Observatory (CSO), located near the summit of Maunakea, Hawai'i Island, Hawai'i. As part of the decommissioning process, Caltech is preparing an environmental assessment (EA). This report is intended to be part of the EA and provides a hydrogeological evaluation of Maunakea and a qualitative analysis of the potential impacts of wastewater from the CSO. This report also includes a geologic characterization of the rock fill material used in the CSO's foundation. The regional groundwater body below the summit of Maunakea is probably a dike-impounded high-level aquifer. The five aquifer systems that connect to the peak of Maunakea are Honokaa, Pa'aulo, Hakalau, Onomea and Waimea and there are an unknown number of relatively small perched water bodies associated with buried glacial deposits and deposits of weathered ash or sediment. Potential impacts to the regional aquifers, springs on the slopes of Maunakea and Lake Waiau were analyzed using published literature, visual hydrologic inspection, by estimating travel times and attenuation, looking at nitrate data from water supply wells and by estimating dilution factors. Based on this analysis, there is virtually no possibility of impacts from wastewater on the surrounding regional aquifers. Cost: \$68,136			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION <i>(City and State)</i> Hydrogeological Services for Kilauea Lighthouse Village Market Café Injection Wells, Kaua'i, HI		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2018-2019	CONSTRUCTION <i>(If applicable)</i> 2019	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Project Manager and Hydrogeologist.</i> Provided the client with options for wastewater disposal. Conducted preliminary research on Kilauea and Kōloa Volcanics geology, monitored test hole drilling, logged the geology of the borehole core, prepared an injection well design and conducted a preliminary injection test. Cost: \$43,000			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION <i>(City and State)</i> Plugging Kalaeloa Desalination Facility, O'ahu, HI		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Project Manager and Hydrogeologist.</i> The Honolulu Board of Water Supply plans to build a seawater desalination plant. INTERA assessed the possibility of interaction between the seawater-quality source wells and the brine injection wells. In addition, INTERA assisted in locating the wells and will prepare design and specification documents. Cost: \$220,000			<input checked="" type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Nicole Shrader	13. ROLE IN THIS CONTRACT Dive Safety Officer, Marine Biologist, Environmental Scientist, and Lab Technician	14. YEARS EXPERIENCE	
		A. TOTAL	b. WITH CURRENT FIRM
		6	6

15. FIRM NAME AND LOCATION (City and State)
AECOS Inc. Kaneohe, HI

16. EDUCATION (DEGREE AND SPECIALIZATION) BS Marine Science BS Oceanography Hawaii Pacific University, Kaneohe, HI	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
PADI Master Scuba Diver Trainer (16 years)
AAUS Full Member/DSO
Certified First Aid and CPR
DAN Oxygen Administration for Divers
Maritime Security Awareness (MARSEC) training
TWIC

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	North Kawaihae SMB, Kohala, HI	2023	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE AECOS Inc. was contracted to assess the benthic community around a damaged breakwater in Kawaihae SMB. Surveys were completed using snorkel equipment. Transects and underwater photographs were used to provide qualitative and quantitative data. I assisted in survey planning, safety management, and collected survey data.		
b.	Marine biological survey at the Waikiki War Memorial Natatorium Honolulu, HI	2023	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE AECOS, Inc. was contracted to conduct surveys to inventory marine assemblages in two areas of the Waikiki War Memorial Natatorium, the interior pool bottom, and the exterior wall. Biologists collected data on percent benthic composition and coral abundance and size class distribution using SCUBA and snorkel equipment. As the Dive Safety Officer, I was responsible for reviewing and approving the Dive Safety Plan. On site, I conducted the benthic composition data surveys around the exterior walls. Compiled data and identified marine species.		
c.	Marine biological resources of Waikiki Beach, Oahu	2022	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE AECOS was contracted to conduct marine surveys of the waters adjacent to the Project location to support the EIS development. AECOS biologists conducted surveys to inventory marine assemblages in the nearshore and offshore waters. Biologists used SCUBA and snorkel gear to collect data on bottom type, coral colony size-frequency (size, diversity, new recruits, large colonies, health); diversity, identification and categorization (common vs. uncommon) of algae (including crustose coralline algae) and seagrass; and non-coral macro-invertebrates greater than 3 cm. As DSO, I was responsible for reviewing and approving the Dive Safety Plan. On site, I conducted surveys in near and offshore environments using SCUBA and snorkeling equipment, which included identifying and quantifying marine species.		
d.	Marine resource assessment for Kahana Bay erosion mitigation project Kahana, Maui, HI	2019	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE AECOS, Inc. was contracted to develop methodology to assess resources, assess general impacts from the project, and guide design to have the least amount of damaging effect. Surveys were conducted in 3 separate areas to quantify coral colonies, quantify diversity, size, density, and biomass of fishes, identify, and categorize algae and seagrass, and identify and quantify macro-invertebrates. As DSO, I was responsible for reviewing and approving the Dive Safety Plan. On site, I conducted surveys in near and offshore environments using SCUBA and snorkeling equipment, which included identifying and quantifying marine species.		

Example Projects of
Construction Management & Inspector

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 1
21. TITLE AND LOCATION (City and State) Overseas Terminal Asbestos Containing Materials Abatement, Air Conditioning Modifications Honolulu, HI	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing (2023 estimated)

23. PROJECT OWNER'S INFORMATION

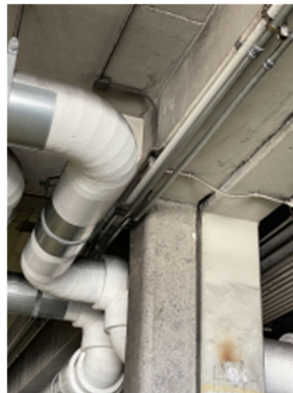
a. PROJECT OWNER HI DOT, Airports Division	b. POINT OF CONTACT NAME Diana Lee	c. POINT OF CONTACT TELEPHONE NUMBER 808/ 587 - 2131
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The Overseas Terminal at Honolulu International Airport was constructed in 1969 and continues to serve as the gateway for the majority of international arrivals to the State of Hawaii. Oceanit was hired as the Construction Manager for a multiphase project to replace and upgrade the roof-mounted heating, ventilation, and air conditioning (HVAC) units, install new chilled water lines in the basement and ground floor level to serve the HVAC Units, overlay the International Arrivals Building (IAB) roof with fluid applied roof coating, and replace south basement HVAC units. A second phase to abate asbestos containing materials is forthcoming. The Overseas terminal includes the Customs and Border Protection (CBP) secured area, which is frequently occupied throughout the day, necessitating extensive security, scheduling, and outage coordination.



All construction work within the CBP area is conducted at night to minimize impacts on Airport operations. Work is halted and abatement scheduled such that areas may be cleared when international flights and passengers arrive. All operations are coordinated and performed to CBP's satisfaction.



In addition to typical project construction management requirements, Oceanit is coordinating hazardous materials sampling and analysis, air monitoring, airport outage requests, Customs and Border Protection security access, and FAA permits.

Fee: \$1.0 million



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Construction Management
b.	(1) FIRM NAME Kaimana Environmental Solutions	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Hazardous Materials Sampling

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 2
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21. TITLE AND LOCATION (City and State) Ke'ehi Lagoon Mangrove Removal Honolulu, HI	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER HI DOT, Airports	b. POINT OF CONTACT NAME Steve Tagupa	c. POINT OF CONTACT TELEPHONE NUMBER 808/ 838 - 8805
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Invasive Mangrove trees, proliferating in the Ke'ehi Lagoon, serve as a habitat for several non-native bird species, which have the potential to cause bird strikes for planes during takeoff and landing at the nearby Daniel K. Inouye International Airport. In addition, mangroves proliferate rapidly and have negative ecological impacts, such as reduction in habitat quality for endangered waterbirds like the Hawaiian Stilt. Bird strikes can be extremely dangerous, so to prioritize safety, the Department of Transportation Airports Division is overseeing the removal of the invasive mangrove trees.



Oceanit is providing construction management services and environmental compliance inspections to remove the extensive mangrove growth in the Lagoon. Responsibilities include project documentation; tracking schedule, budget, and compliance; site inspections; and safety oversight. As many native and endangered species also live in the lagoon, Oceanit implemented regular surveys for endangered species to ensure that only non-native trees and birds were removed from the lagoon. Also

coordinated was the removal of deteriorated boats, floating Wedding Chapel, and seaplane dock that posed hazards to navigation for lagoon users



Several challenges arose throughout the course of this project including the COVID-19 pandemic restrictions, the lagoon squatter population, and culling of non-native bird flocks. In response to the pandemic, Oceanit quickly adapted inspections and implemented a set of protocols to ensure maximal safety. Additionally, five of the six project areas are located on islets in the lagoon, and the inter-tidal nature of the job site required work to be executed around dynamic tide tables and challenging environmental conditions.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Construction Management
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <p style="text-align: center;">3</p>
21. TITLE AND LOCATION (City and State) Water Infiltration into the Basement of the Overseas Terminal and International Arrivals Building, Daniel K. Inouye International Airport, Honolulu, HI	22. YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION (If applicable)	

23. PROJECT OWNER'S INFORMATION

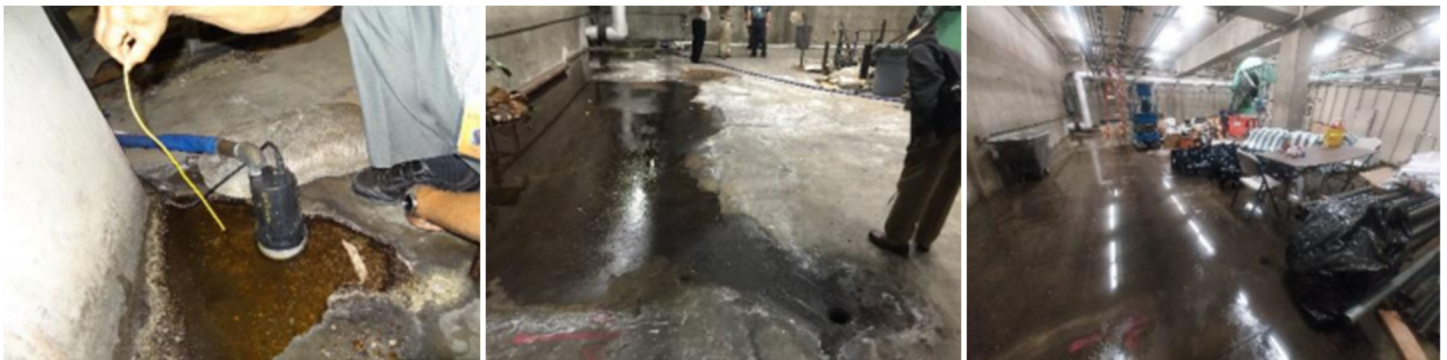
a. PROJECT OWNER HI DOT, Airports Division	b. POINT OF CONTACT NAME Steve Tagupa	c. POINT OF CONTACT TELEPHONE NUMBER (808) 587 - 2131
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The basement of the international Arrivals Building has been plagued with water infiltration through the concrete floor slab. Based on an assessment of the amount of water infiltration, and the sources and flow paths of water impacting the basement, Oceanit designed an investigations program to define the problem.

Oceanit conducted precise elevation surveys, water quality studies, ground penetration radar studies, water sensing electrical potential measurements and designed a solution to prevent floor flooding to enable efficient ramp and baggage handling operations and maintenance of air conditioning machinery for the building. Designed repairs include exterior grading and landscaping, floor and condensate drainage network abandonment and replacement, concrete void, cracks and spall repair, concrete injection sealing, installation of sub-slab waterproofing system, and replacement of structural concrete. The investigative work preceding design required significant coordination with the Airport stakeholders. Improvement and repair design plans (100% plans) were delivered several months ahead of schedule.

Throughout the project, tasks needed to be executed without interfering with airport operations. Oceanit actively coordinated and maintained clear communications with DOT-A and contractors to ensure the tasks were performed in sequence. Construction will be conducted in phases, and Oceanit will manage construction scheduled to commence in mid-2023 following substantial completion of the OST ACM abatement project construction.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Construction Management
b.	(1) FIRM NAME Kaimana Environmental Solutions	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Hazardous Materials Sampling

F. EXAMPLE OF PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 4
21. TITLE AND LOCATION <i>(City and State)</i> Kinau Hale Repair Lanais Honolulu, HI	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> 2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Department of Accounting and General Services	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER / - Ext.
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project was not performed by Oceanit but managed by Jason Lee who is Oceanit's current employee.

The Kinau Hale Repair Lanais project involved the removal and replacement of the deteriorated steel guard railing at the exterior lanais at Kinau Hale, a Department of Health three-story building. The project included the demo and removal of the steel railing and the outer 12-inches of the 9-inch-thick lanai concrete slab on three floors. The installation of the new steel railing included forming and casting of new concrete slab with steel reinforcement and with the new steel railing with anchors embedded to the new concrete slab.



Mr. Lee's role on this project was project manager and his responsibilities included:

- Managed the construction of this project from inception to completion.
- Prepared project schedules.
- Coordinated and scheduled field crews and subcontractors.
- Provided field supervision and quality control.
- Conducted safety meetings; monitored jobsite safety.
- Prepared subcontract agreements.
- Estimated costs for bids; prepared submittals, RFI's and change orders.
- Conducted project meetings with clients and consultants.

Construction Cost: \$650,000



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE OF PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 5
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21. TITLE AND LOCATION <i>(City and State)</i> McDonald's Waipahu Renovation Waipahu, HI	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> 2019

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER McDonald's Corporation	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER / - Ext.
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project was not performed by Oceanit but managed by Jason Lee who is Oceanit's current employee.

The McDonald's Waipahu Renovation project included the renovation of the kitchen, dining room and restrooms, grading and sitework, new utility lines and connections, parking and driveway repaving, new exterior features and finishes, new concrete access ramps, new roofing system, new trash enclosure, demolition and reconstruction of the Playplace.

Mr. Lee's role on this project was project manager and his responsibilities included:

- Managed the construction of this project from inception to completion.
- Prepared project schedules.
- Coordinated and scheduled field crews and subcontractors.
- Provided field supervision and quality control.
- Conducted safety meetings; monitored jobsite safety.
- Prepared subcontract agreements.
- Prepared submittals, RFI's and change orders.
- Conducted weekly project meetings with clients.



Construction Cost: \$2.1 million



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE OF PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 6
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21. TITLE AND LOCATION <i>(City and State)</i> Central School District – Heat Abatement Nimitz Elementary School PVAC Permanent Classrooms – Phase 1B Honolulu, HI	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> 2019

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Department of Education	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER / - Ext.
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project was not performed by Oceanit but managed by Jason Lee who is Oceanit's current employee.

The Nimitz Elementary School Heat Abatement project included the installation of photovoltaic air conditioning (PVAC) systems for 15 classrooms, 168 ceiling fans and window treatment at 40 classrooms and cafeterias.

Mr. Lee's role on this project was project manager and his responsibilities included:

- Managed the construction of this project from inception to completion.
- Prepared project schedules.
- Coordinated and scheduled field crews and subcontractors.
- Provided field supervision and quality control.
- Conducted safety meetings; monitored jobsite safety.
- Prepared subcontract agreements.
- Estimated costs for bids; prepared submittals, RFI's and change orders.



Construction Cost: \$1.9 million

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.		,	
b.		,	
c.		,	
d.		,	
e.		,	
f.		,	
g.		,	

F. EXAMPLE OF PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 7
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21. TITLE AND LOCATION <i>(City and State)</i> Waialua Complex Heat Abatement – Phase 1B Waialua, HI	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> 2018

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Department of Education	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER / - Ext.
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project was not performed by Oceanit but managed by Jason Lee who is Oceanit's current employee.

The Waialua Complex Heat Abatement project included the installation of photovoltaic air conditioning (PVAC) systems for 45 classrooms over 8 separate buildings, the installation of four 14-ft ceiling fans for the gymnasium.



Mr. Lee's role on this project was project manager and his responsibilities included:

- Managed the construction of this project from inception to completion.
- Prepared project schedules.
- Coordinated and scheduled field crews and subcontractors.
- Provided field supervision and quality control.
- Conducted safety meetings; monitored jobsite safety.
- Prepared subcontract agreements.
- Estimated costs for bids; prepared submittals, RFI's and change orders.

Construction Cost: \$3.8 million



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE OF PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 8
21. TITLE AND LOCATION <i>(City and State)</i> PE/Athletics Complex General Repairs, Phases 2, 3, 4 Honolulu, HI	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

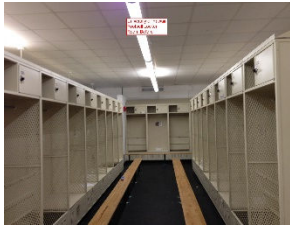
a. PROJECT OWNER University of Hawaii	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER / - Ext.
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project was not performed by Oceanit but managed by Jason Lee who is Oceanit's current employee.

The PE/Athletic Complex General Repairs on the University of Hawaii at Manoa Lower Campus included the following phases of work that Mr. Lee was responsible for as a project manager for the three separate projects.

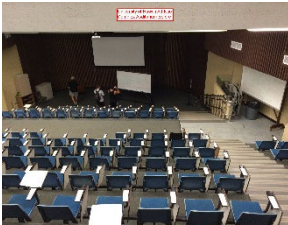
Phase 2 – Renovation of the Football Locker Room in the UH Manoa Athletics Complex
Cost: \$1 million



Phase 3 – Renovation of the Meeting Rooms, Training/Treatment Rooms, Equipment Room, Coaches' Locker Rooms, and Offices in the UH Manoa Athletics Complex
Cost: \$3 million



Phase 4 – Renovation of the Auditorium, Classrooms, and Basketball Offices in the UH Manoa Athletics Complex
Cost: \$1.5 million



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE OF PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 9
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21. TITLE AND LOCATION <i>(City and State)</i> HNL NDWP IIT Mauka Extension, Daniel K. Inouye International Airport Honolulu, HI	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> 2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER HDOT, Airports Division	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER / - Ext.
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Not performed by Oceanit, but Oceanit's current employee Om Das, PE, PMP was a key personnel on this project.

The project scope included the construction of the new \$270 Million Inter-Island Terminal (IIT) Mauka terminal extension at the Daniel K. Inouye International Airport that was approximately 280,000-square-foot and a two-story building connecting to the existing IIT. The Mauka Extension was designed to be LEED Silver certified and provide a new concourse capable of accommodating six Group V (wide-body) aircraft gates and alternately up to 11 Group III (narrow body) aircraft gates.



Oceanit's team member Om Das served as the construction management team's lead that managed all aspects of the project that interfaced with Airport operations, Airlines, neighboring HART Contractor, and the USPS. Mr. Das was also the lead on the security activation of the facility during its transition from a non-secured into a sterile facility.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE OF PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <p style="text-align: center;">10</p>
21. TITLE AND LOCATION <i>(City and State)</i> HNL NDWP Taxilanes G&L – Phase I, Daniel K. Inouye International Airport Honolulu, HI	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> 2018

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER HDOT, Airports Division	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER / - Ext.
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Not performed by Oceanit, but Oceanit's current employee Om Das, PE, PMP was a key personnel on this project.

The project scope included the widening and reconstruction of Taxilanes G & L between the Inter-Island Terminal and Taxiway A at the Daniel K. Inouye International Airport to accommodate ADG-V aircraft traffic with a construction cost of approximately \$60 Million. The project scope also included the construction of a new concrete culvert structure above a canal that required significant coordination with the Airport's Environmental Section, the Department of Health (DOH) and the Army Corps of Engineers (Army).



Oceanit's team member Om Das served as the construction management team's lead that managed all Quality Assurance, Environmental and Project Controls work on this project. Mr. Das led all Quality Assurance efforts in accordance with projects documents that included but not limited to compliance with FAA's P-152, P-403, P-401 and P-501 FAA specifications. Mr. Das was responsible for coordinating all construction work with the DOH & the Army and for ensuring General Contractor's (GC) construction compliance with all applicable Federal, State & Local environmental regulations. Mr. Das was also responsible for reviewing & monitoring GC's schedule updates and reviewing & negotiating cost claims submitted by the GC.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

Example Projects of
Project Management

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 1
21. TITLE AND LOCATION (City and State) Anahola Farm Lots Water System Improvements	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022 (est)	CONSTRUCTION (If applicable) 2022 (est)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Hawaii Department of Hawaiian Homelands	b. POINT OF CONTACT NAME Stewart Matsunaga	c. POINT OF CONTACT TELEPHONE NUMBER (808) 620-9283
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This two-phased project will bring the DHHL Farm Lots water system in conformance with the County of Kauai Department of Water (KDOW) Water System Standards. The first phase includes:

Plans, specifications, cost estimates, schedules, reports for installation of new two pressure zone water system.

- Replacement of 7,000 linear feet of 6-inch through 8-inch water distribution mains.
- Replacement of approximately twelve (12) new fire hydrant assemblies.
- Installation of approximately 52 new residential/agricultural smart water meters.
- Design an improved water interconnection facility with KDOW for emergency water supply service.
- Minor storm drainage improvements.
- Abandonment in place of existing asbestos cement (AC) water lines within the Anahola Farm Lots.

The second phase involves design development for construction of new 0.5 MG water tank and onsite water system improvements.

Required services, include but are not limited to:

- Civil engineering services for existing tank demolition, tank site grading, underground piping, site security and drainage system improvements. A plan for removal of the existing tank and maintaining the appropriate water service to residences of Anahola Farm Lots subdivision during construction and well pump testing, inspection, disinfection, and other start-up specifications for the new tank, piping and other proposed improvements or appurtenances.
- Geotechnical engineering services for foundation and seismic design.
- Structural engineering services for the design of a new 0.5 mg concrete water storage tank, water tank pad foundations and any other ancillary structural engineering services.
- Electrical services for design of upgrades in the pump house including a cost-effective Supervisory Control and Data Acquisition (SCADA) equipment design for remote monitoring of the system.
- Mechanical engineering services includes design of replacement vertical turbine well pump and well discharge piping, flow meter, pressure transducer, level transmitter, chlorination facilities and above ground fuel facilities for an emergency generator.

Construction Cost Phase 1: \$484,000 Phase II: \$5.08 million



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime Consultant, Civil Engineer
b.	(1) FIRM NAME Shigemura, Lau, Sakanashi & Higuchi	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Structural Engineer
c.	(1) FIRM NAME Geolabs, Inc	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Geotechnical Engineer
d.	(1) FIRM NAME Ron Ho & Associates	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Electrical Engineer
e.	(1) FIRM NAME Okahara & Associates, Inc.	(2) FIRM LOCATION (City and State) Hilo, HI	(3) ROLE Mechanical Engineer

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <p style="text-align: center;">2</p>
21. TITLE AND LOCATION (City and State) Waikīkī Aquarium Effluent Disposal System Upgrade	22. YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION (If applicable) 2023 (Est.)	

23. PROJECT OWNER'S INFORMATION

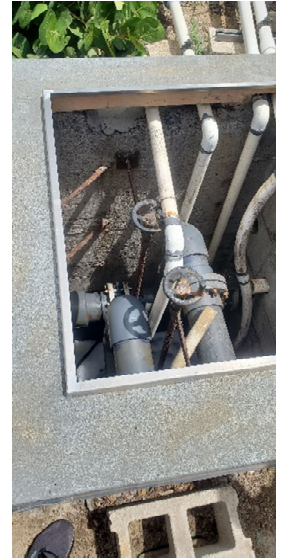
a. PROJECT OWNER University of Hawai'i	b. POINT OF CONTACT NAME Brandon Shima	c. POINT OF CONTACT TELEPHONE NUMBER (808) 216-4780
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The Waikīkī Aquarium is the second oldest operating public aquarium in the U.S., have been operating out of its current facility since 1955. Oceanit was contracted by the University of Hawaii to analyze the Aquarium wastewater systems and develop a comprehensive process water system redesign with the goal to ensure compliance with increasing environmental regulatory requirements and future expansion and improvements. Evaluation and redesign of the wastewater systems involved assessment of the electrical system, mechanical systems, local geology, and biological life support systems. Additionally, all infrastructure improvements will be designed to accommodate future displays and other upgrades. Challenges included navigating a stringent regulatory environment, coordinating investigations during COVID restrictions, specifying proper state of the art water treatment and life support equipment, and working within the limitations of aging infrastructure.



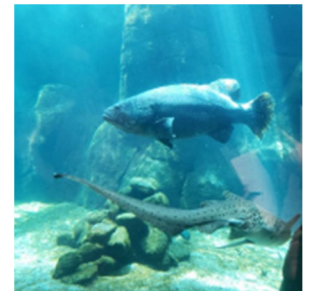
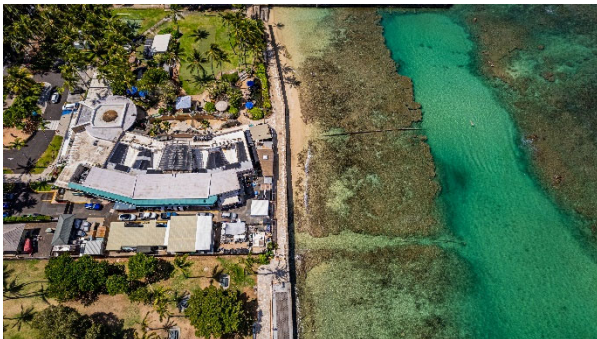
Oceanit managed a large team of subcontractors for this complicated project, including mechanical engineers, electrical engineers, hydrogeologists, geotechnical engineers, surveyors, aquarium and water quality specialists, architects, pipe surveyors, and aquarium life support systems specialists. Coordination and communication challenges with such a large subcontractor team was compounded as the there were also multiple groups representing the client input, including the University of Hawaii, Waikiki Aquarium, and donors to the aquarium. The Oceanit team was integral in maintaining lines of communication within and between groups, coordinating with regulators, and keeping the project moving and everyone on the same page.



Oceanit's deliverables included a Water System Upgrade Plan, Basis of Design Report, Compliance Monitoring Plan, and other necessary components for Federal, State, and County permit regulations.



Oceanit will oversee construction of the multi-million-dollar infrastructure improvement project.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime Consultant, Civil/Env. Engineer, Biologist
b.	(1) FIRM NAME Okahara & Associates, Inc.	(2) FIRM LOCATION (City and State) Hilo, HI	(3) ROLE Mechanical Engineer

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 3
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21. TITLE AND LOCATION (City and State) Ala Wai Small Boat Harbor Improvements Honolulu, Oahu, Hawai'i	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2014

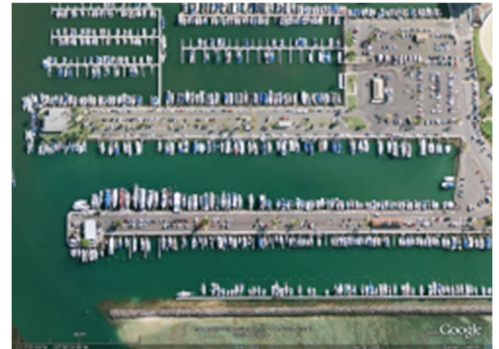
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Department of Land and Natural Resources	b. POINT OF CONTACT NAME Mr. Eric Yuasa	c. POINT OF CONTACT TELEPHONE NUMBER 808/587-0122
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Scope: Oceanit prepared construction plans and specifications and secured permits to replace the existing 6-inch potable water main, including lateral connections, valves, and meters, with new four-inch and eight-inch water mains, lateral connections, valves, and meters.

A design for replacement of existing fixed finger piers with aluminum and composite floating piers, including ADA-accessible cross docks, at the 500 Row Docks of Ala Wai Small Boat Harbor (AWSBH) was also provided. Related improvements included gangways, security gates, and utilities (electrical and water).



Oceanit subcontracted or prepared:

- A topographic survey, including the location of utilities;
- A hydrographic survey;
- A geotechnical investigation;
- Conceptual designs and alternatives;
- Construction plans and specifications;
- An engineering cost estimate; and
- All required permits (Department of the Army permit, 401 Water Quality Certification) prior to construction. Oceanit also provided post-design services during bidding, and construction services for the waterline replacement.

Oceanit prepared and obtained approval of a Traffic Control Plan to provide safe work zones for the contractor and safe passageways for pedestrian and motorists passing through the construction site during installation of the water line.

Design Fee: \$337,375 and Waterline replacement: \$1.3 million



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit	(2) FIRM LOCATION (City and State) Honolulu, Hawai'i	(3) ROLE Prime consultant
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 4
21. TITLE AND LOCATION (City and State) Salt Lake Watershed Structural BMP Implementation Projects	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022 (est)	CONSTRUCTION (If applicable) 2022 (est)

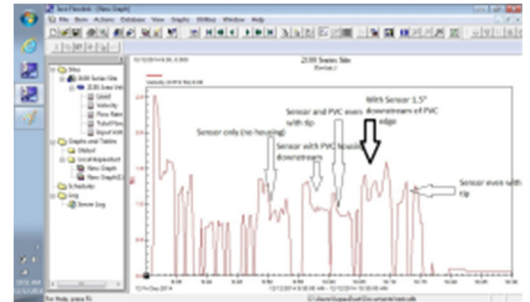
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Honolulu Dept of Facilities Maintenance	b. POINT OF CONTACT NAME Randall Wakumoto	c. POINT OF CONTACT TELEPHONE NUMBER (808) 768-3343
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Under this multiple award contract, eight Task Orders have been issued:

- Program Planning and Scheduling;
- Preliminary Feasibility Studies;
- Design of Salt Lake Storm Drain Filtration;
- Design of Salt Lake Debris Basins;
- Design and Construction Management of Hydrodynamic Separators & Inlet Screening Devices;
- Feasibility Study for Low Impact Development (LID) BMPs at Likini St Parking Lot;
- Design of LID BMP Improvements at Likini St Parking Lot; and
- Salt Lake Watershed Planning Model Development and Calibration.



Spanning the last fifteen years, Oceanit has been performing studies and implementing structural Best Management Practices within the urban Oahu Salt Lake watershed. Urbanized waterways were suffering eutrophic algae blooms, high bacteria levels, stagnant water, foul odors, and severe sedimentation. Comprehensive studies were performed to explore the root cause of environmental issues plaguing the recently developed watershed and the feasibility of implementing state of the art structural BMP solutions.

Investigations of water born nutrients and suspended solids were used to develop and calibrate an HSPF model of the watershed. The model was used as part of feasibility studies to guide planning efforts for current and future structural BMP implementation. Oceanit performed a hydrographic survey of the main body of Salt Lake and studied the issue of why the lake has required frequent costly inland dredging projects. Throughout the contract, Oceanit has maintained awareness of the latest technology in structural BMPs and regularly reevaluated and updated contract recommendations.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime Consultant, Civil/Env. Engineer
b.	(1) FIRM NAME Shigemura, Lau, Sakanashi & Higuchi	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Structural Engineer
c.	(1) FIRM NAME Park Engineering	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Topographic Surveyor

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 5
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21. TITLE AND LOCATION (City and State) North Kawaihae Small Boat Harbor Improvements Kawaihae, Hawai'i	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2022 (est.)

23. PROJECT OWNER'S INFORMATION

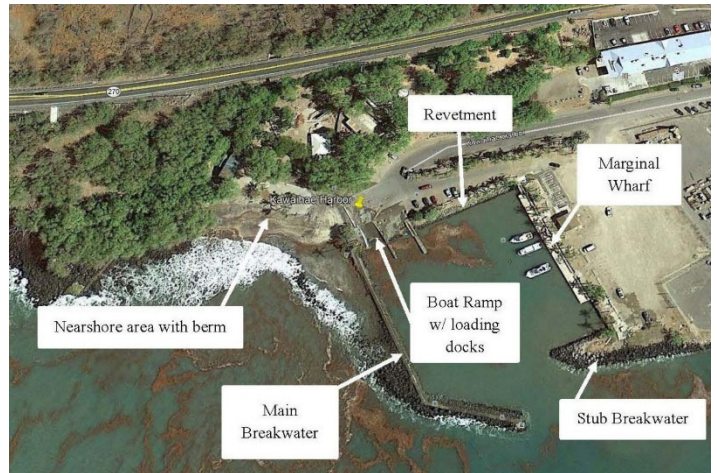
a. PROJECT OWNER Department of Land and Natural Resources Division of Boating and Ocean Recreation	b. POINT OF CONTACT NAME Mr. Finn McCall, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (808) 587-3250 / finn.d.mccall@hawaii.gov
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Oceanit is currently under contract with the Department of Land and Natural Resources Division of Boating and Ocean Recreation (DLNR - DOBOR) to provide designs for repairs to the small boat harbor. The main breakwater that is supposed to protect the harbor has undergone major repairs in the past due to wave damage. The most recent wave damage occurred in January 2020, rendering the marginal wooden wharf and much of the harbor utilities unusable. The proposed improvements will strengthen the compromised breakwater, construct a sand berm along the shoreline to prevent sand from accumulating on the boat ramp and replace or repair damaged infrastructure. These actions will remove safety hazards, improve conditions, and increase the usability of the harbor for harbor users.

Oceanit provided project management, topographic and bathymetric surveys, damage assessment reports for the main breakwater, marginal wharf, rock revetment, parking lot, boat washdown and drainage improvements, utility upgrades, a drainage evaluation, wave modelling and report, an Environmental Assessment, and all required permits.

Estimated Construction Cost: Main Breakwater - \$4.62 million,
Infrastructure Improvements: \$1.16 million



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit	(2) FIRM LOCATION (City and State) Honolulu, Hawai'i	(3) ROLE Prime consultant
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 6
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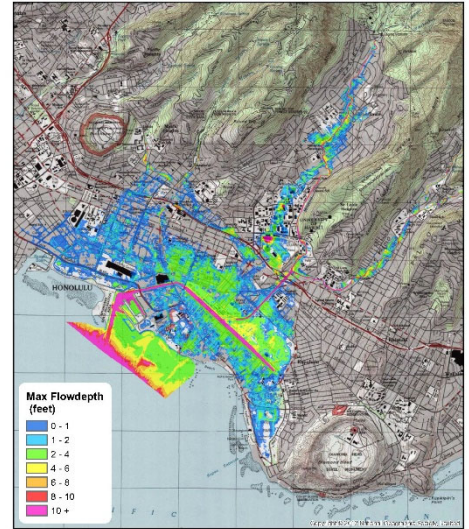
21. TITLE AND LOCATION (City and State) Ala Wai Canal Flood Risk Management Project Honolulu, Hawai'i	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

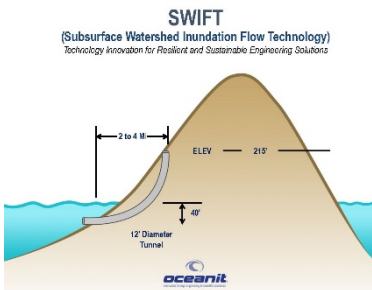
a. PROJECT OWNER City and County of Honolulu Permitted Interaction Group	b. POINT OF CONTACT NAME Councilwoman Carol Fukunaga	c. POINT OF CONTACT TELEPHONE NUMBER (808) 768-5010
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The feasibility phase for this project was initiated in July 2002. Following the 2004 Manoa flood, the project was amended to include the upstream portions of the Ala Wai Watershed (Manoa, Makiki, Palolo). The project restarted in 2007, incorporating the information developed in the Manoa Watershed Project. In 2012, ecosystem restoration was eliminated as a study objective and the project was renamed the Ala Wai Canal Flood Risk Management. A report by the USACE was signed in December 2017 and a Record of Decision for the EIS was reached in September 2018, concluding the feasibility phase for the project. After the release of the 2017 FEIS, there was widespread community opposition that was very consistent with the concerns raised in 2004. While this plan might prevent large-scale flood damage, community members felt it was deeply flawed, and would cause more damage to the ecosystem and to property than it was worth. In answer to very vocal community response, the Honolulu City Council formed the Ala Wai Permitted Interaction Group (PIG), which hired Oceanit to help with community outreach and ensure that the project's full flood control was fully utilized.



Ala Wai Watershed 100-Year Floodplain (Without Project Condition) 0 0.25 0.5 1 Miles



Oceanit developed the SWIFT (Subsurface Watershed Inundation Flow Technology) design concept that would utilize tunnels to remove water from the upper watersheds directly to the ocean and hence mitigate the flooding levels at lower watershed. Hydraulic modeling was performed to evaluate and optimize the design. ArcGIS tool was used to generate flood maps from various storm events under different design options.

Oceanit held numerous community meetings involving residents, private businessowners, non-profit leaders, and government officials to collect feedback and input from those who would be affected most directly. A physical 3D model of the watershed was created to better engage the community and communicate options and solutions. Flood inundation animations and flood maps could be projected onto the 3D model to demonstrate the effects of stormwater at varying storm frequencies. A modified visualization tool was also created to allow for 2D presentation via zoom web meeting.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME Oceanit	(2) FIRM LOCATION (City and State) Honolulu, Hawai'i	(3) ROLE Prime consultant
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 7
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21. TITLE AND LOCATION (City and State) Kahana Nui Basin Modifications Lahaina, Hawai'i	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES ongoing	CONSTRUCTION (If applicable) ongoing

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER County of Maui, Department of Public Works, Engineering Division	b. POINT OF CONTACT NAME Rodrigo Rabara, P.E. ATTN: Kristi Ono	c. POINT OF CONTACT TELEPHONE NUMBER (808) 270-7745
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Scope: The Kahana Nui Dam Structure 5 (National ID HI-00126) is a State-regulated dam constructed in 1984 as part of the Honolulu Watershed Project. In 2000, improvements were made to the dam and have slowly become non-operational over the years. Maui County Department of Public Works requested modifications to be made to improve the system and existing basin conditions to be covered under a dam safety permits in accordance with HAR Chapter 13-190.

Oceanit prepared a design report which included hydraulic and hydrologic analyses, seepage analysis, spillway analysis, foundation evaluation, analysis of downstream effects, anticipated construction sequence and permits/approvals.

Engineering design services included:

- 1) Site inspection, evaluation and recommendations;
- 2) Construction plans including grading, site, BMP notes and detail plans
- 3) Prepare specifications and contract documents
- 4) Provide an Engineer's Detailed Estimate
- 5) Prepare required permits
- 6) Construction support services when required.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime
b.	(1) FIRM NAME Geolabs, Inc.	(2) FIRM LOCATION (City and State) Waipahu, HI	(3) ROLE Geotechnical Engineering

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 8
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21. TITLE AND LOCATION (City and State) Portlock Road Drainage Improvements Honolulu, Hawai'i	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City and County of Honolulu, Department of Design & Construction	b. POINT OF CONTACT NAME Mr. Ed Visaya, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER 808/768-8807 / evisaya@honolulu.gov
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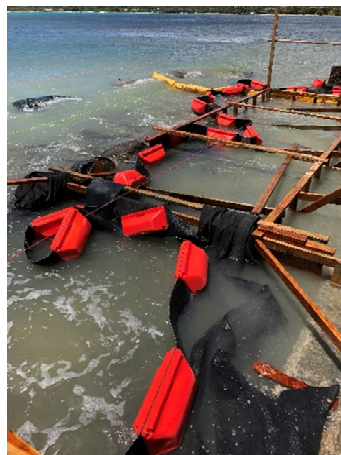
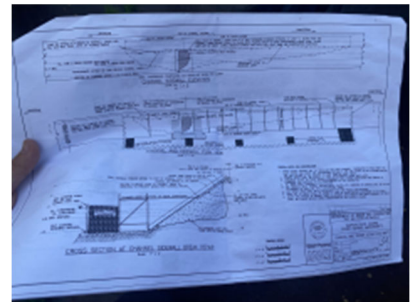
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Oceanit designed a coastal structure to reduce sedimentation from occurring within the outlet of the Portlock Storm Drainage Outfall. The design of the new structure approximately matches the footprint of the damaged structure that had previously served this purpose. The structure has an L-shaped design; the shore-parallel offshore arm dissipates wave energy, while the shore-perpendicular arm connected to an existing seawall disrupts wave induced longshore sediment transport. Oceanit applied the equations and methods in the United States Army Corp of Engineers (USACE) Coastal Engineering Manual to design this coastal structure.

Oceanit prepared all applications, obtained approvals for all required permits (from Dept of Army, Dept of Health, City and County of Honolulu, DLNR (OCCL and SHPD) and Planning Dept). In addition to the Plans, Specifications and Cost Estimates, Oceanit provided a Basis of Design, Coastal Assessment, Marine Terrestrial Report, an exemption for an Environmental Assessment, BMP and Water Quality Monitoring Plan. Post-design support services were also provided during bidding and construction.



Estimated construction cost: \$604,000



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime, Environmental and Coastal Engineer
b.	(1) FIRM NAME ParEn Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Land Surveyor

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 9
21. TITLE AND LOCATION (City and State) 'Aliomanu Road Repair Anahola, Hawai'i	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) Emergency Sandbags 2008

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER County of Kaua'i, Department of Public Works, Engineering Division	b. POINT OF CONTACT NAME Donald Fujimoto, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (808) 241-4882 / dfujimoto@kauai.gov
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Scope: 'Aliomanu Road, which runs along the Anahola Bay shoreline, was damaged by wave induced erosion and portions of the road collapsed, making the road unsafe for vehicles. Barriers were erected and only one-lane of traffic was possible. The road is the only access for residents living to the north along the coast and is the only access for emergency vehicles. Temporary emergency repairs included placement of coir sandbags to stabilize the shoreline.

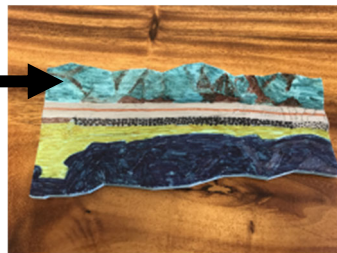
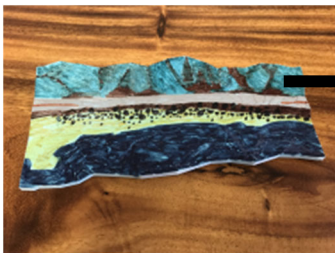


Oceanit prepared an Environmental Assessment which described the potential impact of projected sea level rise on the proposed road repair project and evaluated alternative means for re-establishing a safe and reliable vehicular access. The proposed permanent repair includes rebuilding the damaged road section into a two-lane road, with a supporting rock revetment on the makai side to protect the road from long-term erosion and prevent soil erosion from contaminating the ocean. The revetment design consists of boulder rocks and a CRM curb wall along the roadway. The design retains the rocky nature of the existing shoreline and the Contractor will be able to utilize boulders that exist on the project footprint for the revetment structure. Oceanit monitored the quality of Anahola Bay waters to assess changes to the receiving waters caused by placing the temporary sandbags. The sandbags were filled with sand from a nearby beach berm at the Anahola Stream mouth. Turbidity was monitored pre, during, and post-construction.



Engineering design services included:

- 1) Site inspection, evaluation and recommendations;
- 2) Preparation of emergency permits for temporary and permanent measures;
- 3) Preparation of permanent road repair and shore protection plans; specifications and permit applications;
- 4) Preparation of bid package;
- 5) Preparation of Environmental Assessment;
- 7) Construction support services when required.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 10
21. TITLE AND LOCATION (City and State) Mauna Lahilahi Beach Park Erosion Control Wai'anae, Hawai'i		22. YEAR COMPLETED PROFESSIONAL SERVICES 2019 CONSTRUCTION (If applicable) 2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City and County of Honolulu, Department of Design and Construction	b. POINT OF CONTACT NAME Curtis Kushimaejo	c. POINT OF CONTACT TELEPHONE NUMBER (808) 768-8455
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Scope: Oceanit prepared plans, specifications, cost estimates, an Environmental Assessment, and permits for a shoreline erosion control design to protect the park lands and preserve the sand beach makai of the Mākaha Surfside Apartments on the leeward side of O'ahu. Located just landward of the eroding shoreline, the apartment complex was damaged by hurricanes and by seasonal high waves several times in the past. The project consisted of a temporary sandbag revetment to protect inland areas, a breakwater to reduce wave energy, and beach restoration. The breakwater is a rubble structure extending about 250 feet parallel to the eroding shoreline. The beach was built with 10,000 cubic yards of sand from an inland quarry.



In Phase II, Oceanit designed, prepared specifications and environmental permits, and oversaw construction to replace the temporary sand bag revetment with a 330-ft permanent rock revetment along the inner shoreline of the pocket beach. The revetment consisted of two layers of underlayer stones, totaling 500cy, and two layers of basalt armor stones totaling 2,035 cy. Construction of the revetment was completed in 2021.

Other tasks included hydrographic surveys, wave and current analysis to optimize the design, post-design services during bidding and construction, construction management services, benthic marine biological surveys, and post construction services.

Cost: \$1M



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime—Coastal Engineer and Planner
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Project Management Projects

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL <i>(From Section E, Block 12)</i>	27. ROLE IN THIS CONTRACT <i>(From Section E, Block 13)</i>	28. EXAMPLE PROJECTS LISTED IN SECTION F <i>(Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)</i>									
		1	2	3	4	5	6	7	8	9	10
Dayanada Vithanage PhD, PE	Principal, QA/QC	X	X	X	X	X	X	X	X	X	X
Steve Wilson	Project Manager				X					X	X
Michael Foley PhD, PE	Hydraulic Engineer Coastal Engineer					X	X			X	X
Linyan Goo PhD, PE	Hydraulic Engineer Coastal Engineer	X					X	X			
Jason Lee PE	Civil Engineer Construction Manager	X	X		X						
Om Das PE, PMP	Civil Engineer Construction Manager	X	X								
Jordan Moniuszko PE, CCM	Environmental/Civil Engineer Construction Manager	X	X	X	X	X			X		X
Catherine Hanna	Civil Engineer Construction Inspector		X					X			
Vicki Spradlin	Construction Inspector Drafting Technician									X	
Amber Park	Landscape Architect Drafting Technician	X	X					X		X	
Bryan Fong	Project Engineer Construction Inspector										
Berna Senelly	Community Planner		X			X					
Dale Uno	Community Outreach Specialist		X			X	X				

29. EXAMPLE PROJECTS KEY

NUMBER	TITLE OF EXAMPLE PROJECT <i>(From Section F)</i>	NUMBER	TITLE OF EXAMPLE PROJECT <i>(From Section F)</i>
1	Anahola Farm Lots Water System Improvements	6	Ala Wai Canal Flood Risk Management
2	Waikiki Aquarium Effluent System Upgrade	7	Kahana Nui Basin Modifications
3	Ala Wai Small Boat Harbor Improvements	8	Portlock Road Drainage Improvements
4	Salt Lake Watershed BMP Implementation	9	Aliomanu Road Repair
5	North Kawaihae Small Boat Harbor Improvements	10	Mauna Lahilahi Beach Park Erosion Control

Example Projects of
Community Planning

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

8

21. TITLE AND LOCATION (City and State)

Community Outreach for Proposed Improvements to Kealakehe Wastewater Treatment Plant Kona, Hawaii

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2021

CONSTRUCTION (if Applicable)
N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Hawai'i County Department of Environmental Management

b. POINT OF CONTACT NAME

Craig Lekven
Brown and Caldwell

c. POINT OF CONTACT TELEPHONE NUMBER

808.442.3301

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*



This project was not performed by Oceanit but managed and completed by Berna Senelly who is currently an Oceanit employee.

The Hawai'i County Department of Environmental Management (DEM) is proposing improvements to the Kealakehe Wastewater Treatment Plant (WWTP) that will allow for reuse of wastewater treated in accordance with the State of Hawai'i, Department of Health (DOH) Reuse Guidelines R-1 classification, as well as disposal of treated effluent not treated for R-1 classification.

A community outreach program was conducted to introduce people to the proposed project and provide information to help the community understand County objectives and the proposed means by which these objectives can be met. These outreach efforts were intended to raise awareness and engage the community in constructive dialogue throughout the planning and Environmental Impact Statement (EIS) stages so that the project team can proactively address community concerns as the project proceeds.

A key component of the outreach program is to incorporate early and ongoing guidance from a cross-section of key community leaders. The first stage of the outreach program was designed to lay the foundation for future community conversations and in-depth interviews were conducted with a wide cross-section of community/

The second stage of the outreach program was designed to expand on the in-depth interviews with focus groups of like-minded people who share common interests. This approach was designed to help participants fully explore topics from similar perspectives. Four focus groups were conducted including environment, business and landowners, recreation and public agencies.

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 3
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21. TITLE AND LOCATION (City and State) Kahana Bay Erosion Mitigation Project Lahaina, Maui, Hawaii	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 2022 (estimated)

23. PROJECT OWNER'S INFORMATION

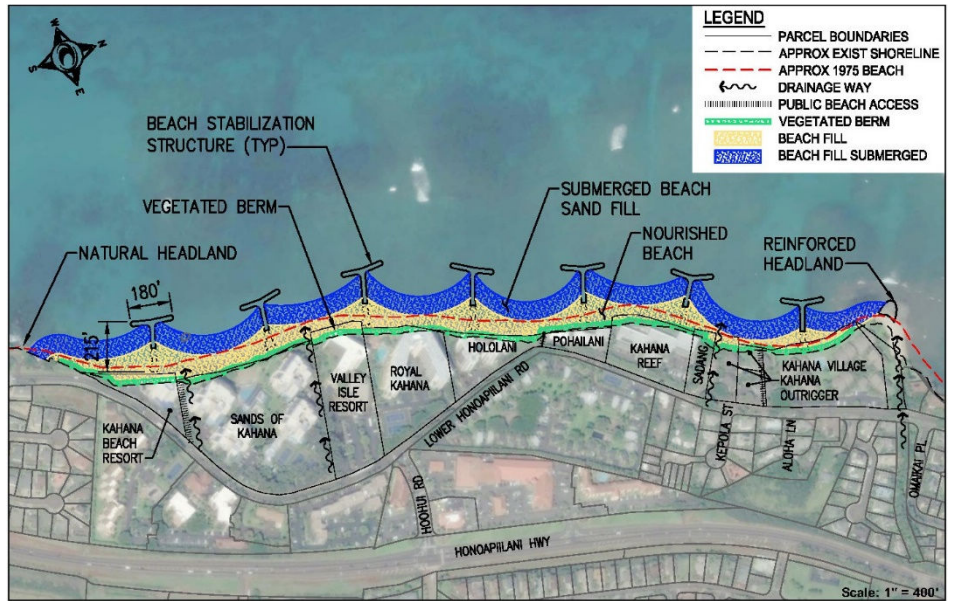
a. PROJECT OWNER Kahana Bay Steering Committee (KBSC) / County of Maui Department of Planning	b. POINT OF CONTACT NAME Maui County Jim Buika	c. POINT OF CONTACT TELEPHONE NUMBER (808) 270-6271
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Oceanit prepared an Environmental Impact Statement for the Kahana Bay Steering Committee (KBSC). For decades, Kahana Bay on Maui has experienced severe coastal erosion from sea level rise, storm events, and shoreline development. This has resulted in natural hazard risks to public safety and infrastructure. Approximately 1,200 feet of this shoreline is currently protected by temporary erosion control structures.

The KBSC represents nine condominiums and one kuleana parcel along the coastline between Kahana Stream and Pōhaku Park. The Proposed Action presents a sustainable and resilient solution to mitigate regional shoreline erosion using sand transported from offshore for beach nourishment and berm enhancement.

Seven rock T-ground and one reinforced rock headland structure will be constructed to stabilize the beach. The beach will be restored to the approximate width that existed in 1975 which is about 65 feet wider on average than is current. Other benefits include six coves created in the nearshore area, addition of hard substrate and niche space for marine species, and preserving long-term water quality.



Oceanit conducted an extensive community outreach program in planning and design of this project. Several community meetings were held and eleven in-depth key informant interviews were conducted. In addition, Oceanit conducted four focus groups, including cultural, ocean users, sustainability and residents. We are currently supporting the KBSC in working with the County of Maui to form a Community Facilities District (CFD) to fund the project.

Estimated Construction Cost: \$26 to \$40 million



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime, Civil Engineer, Coastal Engineer, Planner
b.	(1) FIRM NAME Cultural Surveys Hawaii	(2) FIRM LOCATION (City and State) Kailua, HI	(3) ROLE Cultural Assessment

F. EXAMPLE OF PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <p style="text-align: center;">4</p>		
21. TITLE AND LOCATION <i>(City and State)</i> Statewide Stormwater Management Program Plan O'ahu, Hawai'i		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2010</td> <td>CONSTRUCTION <i>(If applicable)</i></td> </tr> </table>	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i>
PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i>			

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Department of Transportation, Highways Division	b. POINT OF CONTACT NAME Mr. Robert Shin	c. POINT OF CONTACT TELEPHONE NUMBER 808/831-6705
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

To meet the requirements of a Consent Decree and the DOT Highways' NPDES Municipal Separate Storm Sewer System (MS4) permit, Oceanit was tasked with ensuring permit compliance with illicit connection/illegal discharge (IC/ID) elimination, industrial and commercial inspections (ICI), and waste load allocations (WLAs).

By employing a mobile data system developed by Oceanit's in-house information insights division, Oceanit completed the IC/ID inspections and reports required by the Consent Decree 5 months ahead of schedule. All ICI inspections and reports were also completed ahead of the strict deadlines set by the Highways' NPDES MS4 permit.



Oceanit helped DOT meet the requirements of a Consent Decree by preparing stormwater sampling and monitoring plans, collecting stormwater samples and testing and analyzing for key parameters during the course of the project. Annual WLA data reports were used to identify locations and types of potential permanent best management practices (BMPs) along State Highways right-of-ways and to quantify the Highways' contribution to the waste load entering environmentally impaired streams on Oahu. Oceanit's efforts on the WLA program complied with the requirements of the DOT Highways' NPDES MS4 permit. In 2008, the EPA auditor gave an excellent review of the programs for which Oceanit was responsible.

The approximate project cost was \$3.1 million.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit	(2) FIRM LOCATION <i>(City and State)</i> Honolulu, Hawai'i	(3) ROLE Prime consultant
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F. EXAMPLE OF PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <p style="text-align: center;">5</p>				
21. TITLE AND LOCATION <i>(City and State)</i> Kawainui Marsh Restoration Kailua, Hawai'i		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION <i>(If applicable)</i></td> </tr> <tr> <td>2015</td> <td></td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>	2015	
PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>					
2015						

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER U.S. Army Corps of Engineers	b. POINT OF CONTACT NAME Ms. Nani Shimabuku	c. POINT OF CONTACT TELEPHONE NUMBER 808/438-8521
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Loss of habitat and predation has decimated endemic bird populations in Hawai'i. The Department of Land and Natural Resources (DLNR), Division of Forestry and Wildlife requested USACE establish a native bird habitat in the upper area of the 894-acre Kawainui Marsh. The project objective was to create a series of shallow ponds within the upper portions of Kawainui Marsh for native endangered Hawaiian waterfowl.

Oceanit provided design services and obtained agency approvals for the proposed waterfowl habitat.

Potential water sources were evaluated for the ponds, including groundwater, rainfall, impounded marsh water, and the Maunawili and Kahana Iki Streams during normal flow and flood conditions. Combinations of conveyance mechanisms were also considered. Oceanit prepared an engineering report with recommendations, including a series of groundwater wells with solar powered pumps. A series of ponds was designed to distribute water and empty ponds by gravity for maintenance without negatively impacting other ponds. Oceanit prepared construction plans, specifications, and cost estimates and performed a value engineering analysis to reduce construction cost. All required permit approvals were obtained, including a USACE Section 404 Clean Water Act, Hawai'i Department of Health Section 401 Water Quality Certification, City Department of Planning and Permitting Special Management Area, DLNR Conservation District Use, and Commission on Water Resource Management, DLNR Water Use permits.



The design fee was \$429,628 and project construction cost was \$5.4 million.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit	(2) FIRM LOCATION <i>(City and State)</i> Honolulu, Hawai'i	(3) ROLE Prime consultant
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 1
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21. TITLE AND LOCATION (City and State) Mantokuji Soto Mission Shoreline Adaptation Pā'ia, Maui, HI	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 2023

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Mantokuji Mission Board of Directors	b. POINT OF CONTACT NAME Eric Moto, Board President	c. POINT OF CONTACT TELEPHONE NUMBER
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



The beach and shoreline at this historic Soto Zen Buddhist temple is eroding and much of the previously documented sandy beach has been lost. Historically, this beach was mined for sand used in public works. Without a beach to buffer coastal forces, inland areas are exposed to greater hazards including flooding, wave uprush, and scouring.

Oceanit was contracted by the Board of Directors for engineering assessment, agency coordination, and construction administration services related to the hazard mitigation. The historic temple structure is imminently threatened by the erosion.

The shoreline adaptation project included installation of emergency temporary erosion control structures along the uppermost portion of the beach profile, seaward of the property. The installation helps retain unstable soils and the slow progression of active shoreline erosion, which was approaching the foundation of the temple. This short-term mitigation measure will remain in place for about three years while the



temple engages in a complex long-term planning process. Among the options being considered are restoring the protective beach in Mantokuji Bay, retrofitting the temple to accommodate future coastal hazards, and relocating or demolishing other structures if necessary.

Estimated Construction Costs: \$400,000



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

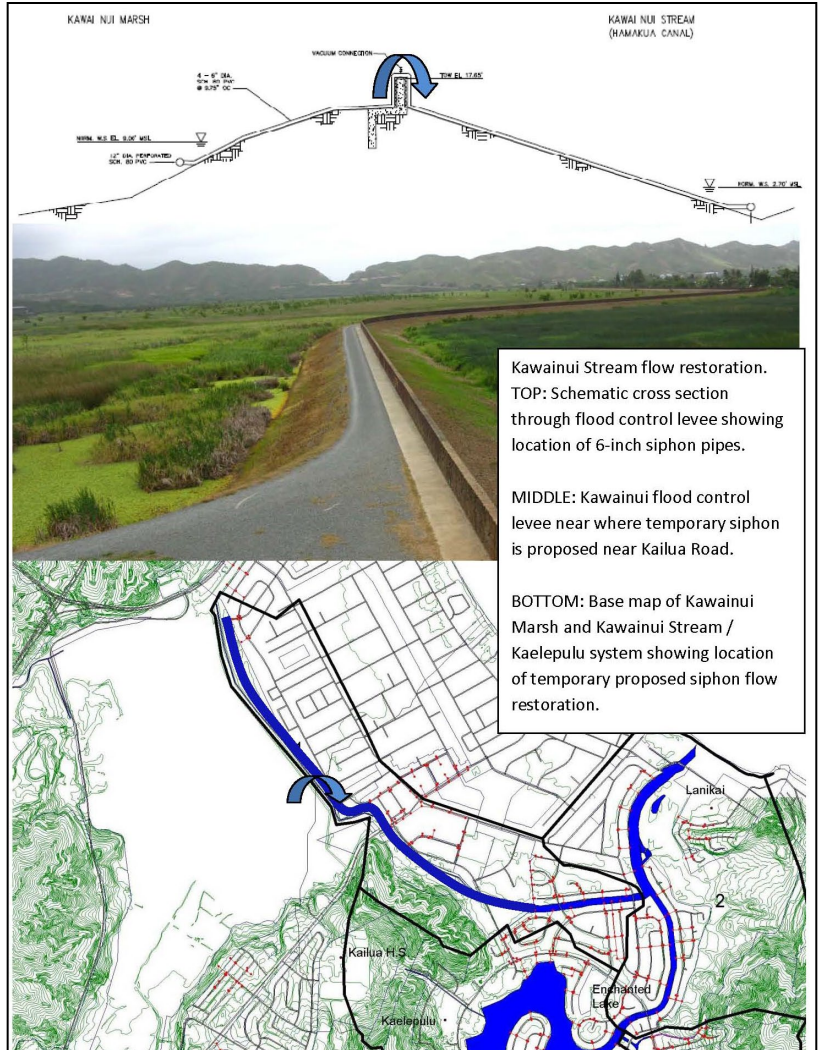
20. EXAMPLE PROJECT KEY NUMBER
6

21. TITLE AND LOCATION <i>(City and State)</i> Kawainui Waterways Circulation Improvements Kailua, O'ahu, Hawai'i	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION (if Applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Department of Land & Natural Resources	b. POINT OF CONTACT NAME Carty Chang	c. POINT OF CONTACT TELEPHONE NUMBER (808) 587-0859
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*



Kawainui Stream flow restoration.
 TOP: Schematic cross section through flood control levee showing location of 6-inch siphon pipes.
 MIDDLE: Kawainui flood control levee near where temporary siphon is proposed near Kailua Road.
 BOTTOM: Base map of Kawainui Marsh and Kawainui Stream / Kaelepulu system showing location of temporary proposed siphon flow restoration.

Scope: Construction of the Kawainui flood control levee in 1966 cut off natural flow from the marsh to Kawainui Stream and resulted in low flow and poor water quality in both this stream and the Kaelepulu watershed into which it flows. The Kaelepulu watershed is presently listed as a 303(d) impaired water body and undergoing TMDL study by the DOH. Poor water quality impacts paddlers in the stream, beach-goers on Kailua Beach when the stream is opened to flow to the ocean and animals that live in the area.

Oceanit prepared an engineering study to determine the most feasible method to restore water flow from Kawainui Marsh to Kawainui Stream without compromising the existing flood control levee. An Environmental Assessment was prepared to identify probable impacts and mitigative measures. The goal of the project is to restore flow by providing a design to transfer water, preferably by gravity, from Kawainui Marsh (either over, under or around) the existing flood control levee and into Kawainui Stream in a manner consistent with Army Corps of Engineers levee maintenance requirements. Water transfer systems considered included pipes, channels, siphons, u-tubes and other structures. The physical extent of the project was relatively small, though the potential impact could extend downstream to the 120-acre Kailua Waterways including Hāmākua Wetlands, Ka'elepulu Pond and associated wetlands, Kaelepulu Stream, and impact ocean water quality at the Kailua Beach outlet.

Cost: \$242,000

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Honolulu, HI	(3) ROLE Prime
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <p style="text-align: center;">1</p>
21. TITLE AND LOCATION (City and State) Program Management Consulting Support for the State of Hawai'i	22. YEAR COMPLETED PROFESSIONAL SERVICES 2015 CONSTRUCTION (If applicable)	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER State of Hawai'i, Office of Information Management & Technology (OIMT)	b. POINT OF CONTACT NAME Leila Kagawa	c. POINT OF CONTACT TELEPHONE NUMBER (808) 586-6000
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Scope: Oceanit provided organizational change management and information technology consulting services to the State of Hawai'i including:

- Support for the Enterprise Resource Planning (ERP) system RFP and preparation for implementation;
- Program management services for multi-million dollar programs including Tax System Modernization and Health IT; and
- Planning and stand up of the State's Program Management Center of Excellence (PMCE)

The State faces the daunting task of transforming legacy business practices and systems into a more modern, unified and efficient model. The rapidly changing world of information technology and the increasing requirements of a growing state present an opportunity to vastly increase the efficiency and effectiveness of state government. The scope of the projects include developing requirements, Achieving positive, lasting institutional change at this scale requires two essential elements in order to develop a working model for transformation and maximize its acceptance during implementation.

Oceanit was program manager for the statewide ERP program. Our scope of services include program management support in the following areas: strategic planning, governance, subject matter expertise, policy, portfolio management, enterprise architecture, business process reengineering, budget and financial planning, business case analysis, risk management, program management office, acquisition and strategic sourcing, organizational development and human capital management, organizational change management, communications and marketing, open government, quality assurance, training, facilitation, operations and service level management, application development, information assurance and privacy, and administrative support.

Critical to our foundation in managing our projects was our approach in assisting with change management, which included the following elements: Human Factors Element (HFE) – A planning and implementation method that incorporates the human factors influencing acceptance and utilization of innovative, new business solutions Business and Technology Element (BTE) – Efficient business processes with various options for technology systems and tools

The Oceanit team is uniquely qualified in both HFE and BTE aspects. Oceanit both applies and instructs companies and organizations in Hawai'i's finance, tourism, technology and communications sectors in conceiving and implementing innovative business solutions uniquely suited for each application. This deep HFE experience combined with Oceanit's Hawai'i roots and 27 years of technology and innovation experience offers a truly unique approach to effectively facilitating significant change and acceptance for Hawai'i's Transformation Plan.

Cost: \$ 3,139,742

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
 (Present as many projects as requested by the agency, or 10 projects, If not specified.
 Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER
7

21. TITLE AND LOCATION (City and State)

Social Impact Assessment for the A&B Proposed Water Lease for the Nāhiku, Ke'anae, Huelo, and Honomanū License Areas
Lahaina, Maui, Hawaii

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2021

CONSTRUCTION (if Applicable)
N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER
A&B

b. POINT OF CONTACT NAME
Keola Cheng, Wilson Okamoto and Associates

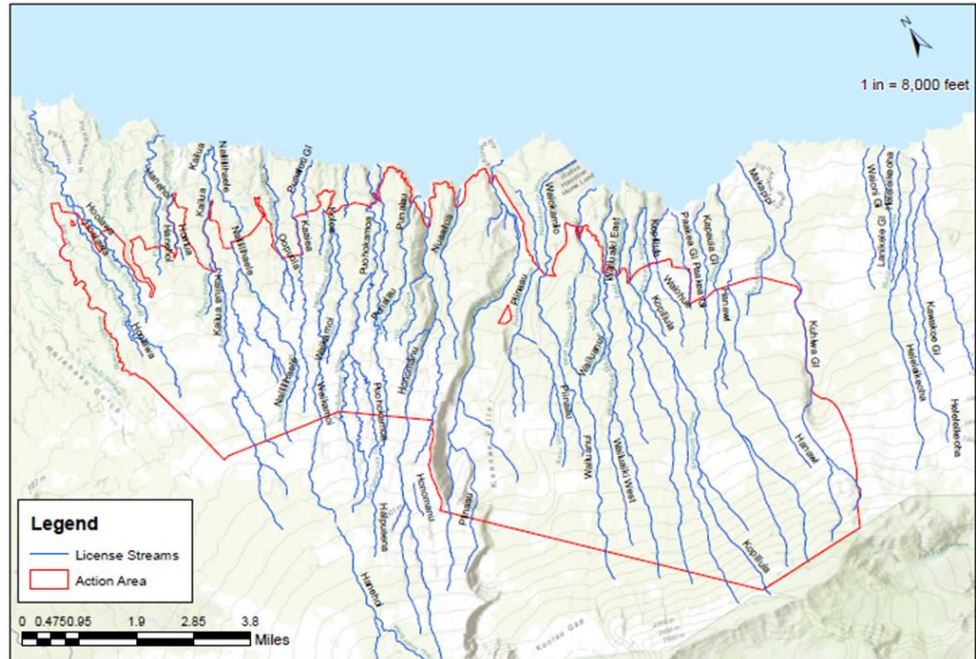
c. POINT OF CONTACT TELEPHONE NUMBER
808.946.2277

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This project was not performed by Oceanit but managed and completed by Berna Senelly who is currently an Oceanit employee.

Services included

- Development of a profile of the existing social environment including demographics, relevant historical influences and public policies and plans
- Identification and analysis of community issues based on seven focus groups and interviews with key community influencers
- Identification of potential social impacts, including potential to realize public policies, sustainable and local agriculture, and community interest in access to water collection areas. In addition, social impacts on specific social groups were identified



License Area Streams

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 8
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21. TITLE AND LOCATION (City and State) Pouhala Marsh Wetland Restoration Waipahu, HI	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER State of Hawai'i, DLNR	b. POINT OF CONTACT NAME Dennis Imada	c. POINT OF CONTACT TELEPHONE NUMBER (808) 587-0257
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Scope: Oceanit was contracted to prepare a Draft Master Plan for the 70-acre Pouhala Marsh State Wildlife Sanctuary (PMSWS) and environmentally sustainable designs for wetland enhancement and waterbird habitat development within the PMSWS. The purpose of this project is to construct tidal wetlands within the PMSWS to create habitat for four species of endangered Hawaiian waterbirds. Oceanit completed the following tasks under this project:



- 1) Evaluation of existing plans;
- 2) Hydrological study using new shallow monitoring wells, rainfall and evaporation gages, and surface water monitoring gages;
- 3) Evaluation of potential water sources (quantity and quality) for constructed wetlands;
- 4) Topographic survey of proposed development site; and
- 5) Design of constructed tidal wetland alternatives including construction cost estimates. The Draft Master Plan addressed water exchange between Waikele Stream, Kapakahi Stream,

Pouhala Wetland, and Pearl Harbor; pedestrian access; wetland educational activities, wetland maintenance and management; and invasive vegetation and predator control and management.

Relevance: Demonstrates Oceanit's expertise in ecosystem restoration, planning, water quality, hydrology, sustainable design, and State DLNR processes.

Cost: \$100,000



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 1
21. TITLE AND LOCATION (City and State) State Land Information System Redesign Requirements, Analysis, and Design	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Hawai'i Department of Land and Natural Resources	b. POINT OF CONTACT NAME Mr. Bary Cheung	c. POINT OF CONTACT TELEPHONE NUMBER (808) 587-0430
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Scope: Oceanit provided consulting services to the State of Hawai'i, Department of Land and Natural Resources (DLNR), Land Division for business process reengineering, business requirements documents (BRD), and technical specifications documents (TSD) development. Oceanit developed both the business requirements and technical specifications for the Land Information System (SLIMS) redesign. SLIMS is the primary tool for managing state land and encumbrances such as leases, permits, rights of entry, and easements. SLIMS was implemented over 15 years ago and needed to be redesigned to meet Land Division's expanded needs.

Major tasks in the project included the following:

- Conducted Logical Framework Approach (LFA) sessions to obtain user feedback and input on needs and requirements.
- Developed a stakeholder matrix with a wide range of stakeholders (internal and external) with different functions or roles and often varied interests.
- Identified manual processes and worked with end users to determine if workflows could be streamlined to improve efficiency.
- Delivered a comprehensive business requirements document that included all findings of the requirements gathering effort.
- Developed a Technical Specifications Document (TSD) that detailed all technical aspects of the new land management system.
- Worked with major stakeholders to determine whether a commercial off the shelf (COTS) solution could satisfy their requirements and evaluated and documented feasibility of leveraging COTS software.

Cost: \$313,947

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime
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Community Planning Projects

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL <i>(From Section E, Block 12)</i>	27. ROLE IN THIS CONTRACT <i>(From Section E, Block 13)</i>	28. EXAMPLE PROJECTS LISTED IN SECTION F <i>(Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)</i>									
		1	2	3	4	5	6	7	8	9	10
Dayanada Vithanage PhD, PE	Principal, QA/QC		X	X	X		X			X	
Steve Wilson	Project Manager										
Michael Foley PhD, PE	Hydraulic Engineer Coastal Engineer		X	X		X					
Linyan Goo PhD, PE	Hydraulic Engineer Coastal Engineer		X								
Jason Lee PE	Civil Engineer Construction Manager										
Om Das PE, PMP	Civil Engineer Construction Manager										
Jordan Moniuszko PE, CCM	Environmental/Civil Engineer Construction Manager		X			X				X	
Catherine Hanna	Civil Engineer Construction Inspector		X			X					
Vicki Spradlin	Construction Inspector Drafting Technician										
Amber Park	Landscape Architect Drafting Technician					X					
Bryan Fong	Project Engineer Construction Inspector										
Berna Senelly	Planner	X	X			X			X		
Dale Uno	Community Outreach Specialist		X			X					
Abe Toma	Program Manager							X			X

29. EXAMPLE PROJECTS KEY

NUMBER	TITLE OF EXAMPLE PROJECT <i>(From Section F)</i>	NUMBER	TITLE OF EXAMPLE PROJECT <i>(From Section F)</i>
1	Comm Outreach for Proposed Improv to Kealake	6	Kawainui Waterways Circulation Improvements
2	Kahana Bay Erosion Mitigation Project	7	Program Mngmt Consulting Support for State of HI
3	Statewide Stormwater Mngmt Program Plan	8	Social Impact Assessment for A&B Proposed Water Le
4	Kawainui Marsh Restoration	9	Pouhala Marsh Wetland Restoration
5	Mantokuji Shoreline Adaptation	10	DLNR Land Info System Redesign

Additional Information

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

INTRODUCTION

Established in 1985 as an ocean engineering firm, Oceanit has expanded services to include civil, environmental, coastal, dam and reservoir engineering; environmental science; planning and permitting; and construction management. Oceanit's principal place of business at the company's headquarters located in downtown Honolulu. We also have an office in Houston, Texas, which serves as an operations center for pilot scale production and support of field development for a range of projects, products, and R&D in the Energy and Industrial sectors.

Today, Oceanit delivers transdisciplinary consulting engineering services. Our engineers, environmental scientists, field technicians, and planners work collaboratively to provide leading-edge reports and design concepts that minimize environmental impact, comply with regulatory requirements, and allow for efficient implementation.

Our team includes and experienced community planner and communications specialist who has designed and implemented dialogue programs for projects that have greatly benefitted from community participation.

PAST PERFORMANCE ON PROJECTS OF SIMILAR SCOPE FOR PUBLIC AGENCIES OR PRIVATE INDUSTRY

Project-proven professionals with a wide range of experience are available for project needs. Oceanit's staff members have extensive project management, engineering, environmental, and construction management experience with public works and private projects. In addition, staff members presented in this submittal have on-call and indefinite quantity contract experience and understand what it takes to complete multiple, concurrent assignments on a fast-track basis. Key personnel resumes for our *RiSE* team (Engineering and Planning) and subconsultants are presented in Section E of this submittal.

EXPERIENCE AND PROFESSIONAL QUALIFICATIONS RELEVANT TO THE PROJECT TYPE

Oceanit has provided engineering analysis, designs for new or rehabilitated utility and infrastructure systems, permitting services and construction management for over 36 years. Repeat clients includes the four Hawai'i counties, state, and federal agencies as well as private entities. This experience and in-depth knowledge of operations and procedures of these agencies provide our staff with the expertise to bring projects from conception to completion. Section F projects describe these relevant projects.

Civil Engineering. Oceanit is responsible for planning and design, environmental services, surveys and assessments, new or rehabilitated utility design, and construction management for a variety of civil engineering projects. During the past 5 years, Oceanit has worked on over 50 civil engineering projects with a combined contract value of \$4.6 million. These projects have involved a multitude of site improvements, such as roadways, embankments, revetments, seawalls, piers, parking lots, sidewalks, dams and reservoirs, and water tanks. The firm's engineering teams tackle a wide range of complex problems and deliver timely, cost-saving solutions to a diverse client base.

Environmental Engineering. Oceanit has completed many environmental engineering projects throughout Hawai'i and the Pacific. These projects include wetland restoration, bird habitat restoration, water and air quality monitoring, fish pond rehabilitation, hazardous materials assessment and remediation, underground storage tank removal and closure, total maximum daily load studies, water quality restoration in lakes, flood engineering, dam & reservoir safety, storm water compliance, best management practice design and implementation, and dredging. Oceanit typically provides complete permitting services for our clients, preparing applications, providing associated documentation and participating in consultations and meetings with regulatory agencies. We are familiar with and have worked with procedures, policies, and staff of county, state, and federal regulatory agencies and have successfully navigated the labyrinth of regulatory requirements for projects.

Water Resources Engineering. Oceanit's background includes the planning, analysis, design, and construction support of water pipelines, reservoirs, wastewater systems, and site development projects. Oceanit's engineers are adept in the areas of project cost control and comprehensive planning for water resources and utilities systems. With in-house expertise from the firm's environmental disciplines, Oceanit offers clients the ability to move projects efficiently from planning and design to construction. The firm has provided drainage and storm water engineering services for all divisions of the State of Hawai'i DOT and DLNR for over 30 years. Services have focused on storm water management; total maximum daily load determination; stream dredging; flood mitigation; hydrologic and hydraulic modeling; wetland improvement; storm water characterization; NPDES compliance monitoring for storm water, storm sampling, and analysis; and other water related issues.

Computer Science. Oceanit specializes in solving difficult IT problems ranging from small database and networking issues to large situational awareness databases for national clients. Oceanit's Information Insights (I/I) team specializes in developing mobile applications to enhance field data collection by improving the efficiency of field personnel and minimizing transcription errors. Solutions include the development of a mobile phone application for damage assessments for the State of Hawai'i Civil Defense to land information management systems for Kamehameha Schools. The firm's solutions are often integrated with geospatial databases, including GIS systems to provide geospatial analyses using both industry standard and open source software. Within the I/I team are business process re-engineering experts to determine client requirements early in the project. The firm's unique expertise and total quality management approach enables the ability to scale and manage complex projects ranging from a large \$15 million project to very small projects under \$20,000.

Project Management. Good project management monitors and coordinates all the key factors of communication, scheduling, cost, design, and quality assurance. The assigned Oceanit project manager will use a straightforward, computerized task order system that focuses on the key project issues and keeps track of all the details. Working with your staff, the project manager will develop specific task orders that define a discreet group of subtasks. Each task order will outline what is to be done, how it will be accomplished, the schedule and budget, the definition of the deliverable, and team member responsibilities. Oceanit's project manager will ensure that work progresses on schedule and within budget, and that appropriate actions are taken to keep the project progressing smoothly.

Construction Management. Oceanit's construction management team is experienced in the administration of construction contracts for projects in Hawai'i. Our construction specialists have the experience and practical skills to cultivate solid partnering relationships among the construction team. This expertise builds solid team consensus that leads to a well-defined project scope, streamlined procedures, and enhanced communication that minimizes owner and contractor risks. Services provided include contract document preparation, contract administration, and construction monitoring and inspection.

Organizational Change Management. Organizational change management (OCM) is an integrated practice that guides an organization through fundamental and lasting change. OCM gauges people's ability to adapt to and implement change, helps prepare people for change, deal with problems and conflicts, and implement necessary steps. If needed, Oceanit can provide OCM services to assist in evaluating processes, identifying problems, and determining the need and extent for change. In its most basic form, OCM aligns expectations, builds and integrates teams, provides governance and structure to the change implementation, and helps staff with the transition through communication, training and other means.

QUALITY ASSURANCE AND CONTROL

Oceanit has set procedures for conducting project activities. The project manager will select the most appropriate project team in consultation with all engineering division managers. The team may consist of engineers from appropriate disciplines, hydrologists, planners, and geologists depending on project requirements. The relevant project personnel attend an internal kickoff meeting where they are briefed on procedures to be followed for quality assurance and quality control (QA/QC) for planning, field work, sampling, data analysis, designs, and the preparation of plans and specifications, community interactions and other project activities.

Oceanit typically prepares a detailed QA/QC plan for each project and employs analysis methodologies commonly accepted by the engineering industry and approved by regulatory agencies to ensure acceptance and consistency in the data and designs produced. The Director of Engineering and two senior project managers from the fields of civil engineering, environmental science, and planning act as the final QA/QC team and check or proofread all deliverables for structure, technical accuracy and content, and then corrected as necessary prior to submittal to the client.

Client meetings are conducted at least on a monthly basis and at project milestones, to present progress, get clear direction on future actions, to discuss issues that come up during the implementation and to ensure client satisfaction. Oceanit has a designated project manager and an alternate staff person who can be contacted by the client any time.

CAPACITY TO ACCOMPLISH THE WORK IN THE REQUIRED TIME

The Oceanit team has executed multiple contracts involving a wide range of civil, environmental and coastal planning, engineering and field services. Our goal is to provide quality professional services for government agencies, while protecting properties, ensuring the safety of residents and conserving and enhancing the infrastructure and natural environment of Hawaii. Each of our staff is experienced in all phases of projects including planning, report preparation, permit applications, generating plans, specifications and cost estimates, field work, environmental monitoring and public outreach. Oceanit's consulting team has been steadily growing, with recently added personnel experienced in project design, construction

management, and community planning. With new team member support, the team has the capacity to service the subject project while simultaneously executing existing contracts.

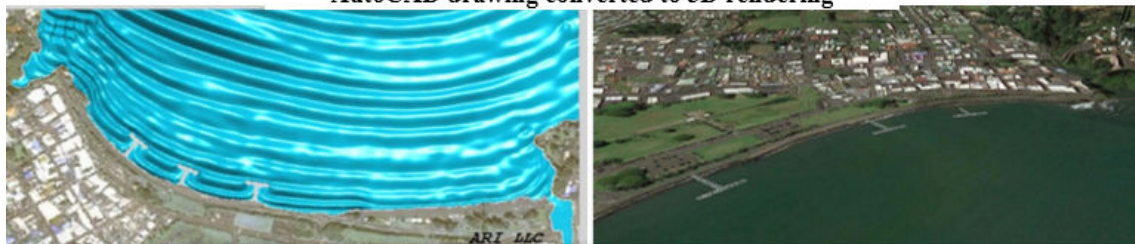
INNOVATIVE/UNIQUE APPROACHES FOR FURNISHING SERVICES

Computer Modeling can be used as appropriate to assess existing and improved conditions on roadways and adjacent land. Oceanit has used modeling for evaluating potential solutions for projects requiring flood mitigation or drainage improvements and spillway adequacy studies for dams and reservoirs as well as design of temporary or permanent BMPs. We have conducted numerous Hydrologic and Hydraulic (H&H) analyses using computer models to develop Emergency Action Plans to simulate dam break scenarios and resulting flood inundation zones. GIS-based utility modeling was used for evaluation and design of water, sewer and storm drain systems at a number of Army bases on O'ahu. Modeling to simulate high wave conditions and wave penetration has proven useful for design of harbor and coastal roadway improvements. See below for Hilo Bayfront Highway screenshots of wave penetration animation.

3D Technology in Data Visualization. Oceanit engineers utilize 3D technology in data visualization. The technology helps us clearly convey existing site conditions and proposed improvements to our clients and affected stakeholders. An example of this capability was used for the Salt Lake Debris Basins BMP project to convert AutoCAD drawings to 3D renderings (see below). For the Hilo Bayfront Highway project, oblique views of proposed improvements can be overlaid on Google maps (bottom right) to provide a visual view of proposed improvements. In addition, Oceanit has an in-house 3-D printer that can build scaled physical models to convey the project concepts or ideas interactively with stakeholders and the public. The photos below show a 3-D model of the Ala Wai watershed, which flooding maps and animations can be projected onto. Oceanit used this tool to present the flooding results in client and community meetings.



AutoCAD drawing converted to 3D rendering

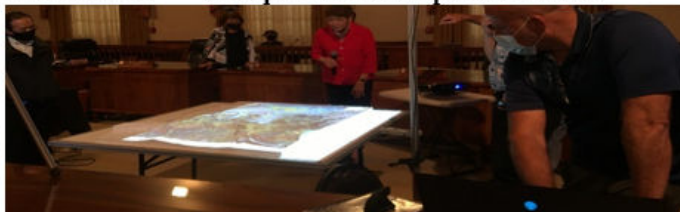


Hilo Bayfront Highway - Wave Penetration Animation

Oblique View of Proposed T-Groins



3D Model of Ala Wai Watershed



Showing Flooding Animations Using 3D Watershed Model

Remote Monitoring. Our engineers and technicians can remotely transmit vital information to our office. For example, we collected a years' worth of temperature and salinity data from acoustic doppler current profilers, thermistor strings, and salinity sensors mounted on two deep sea ocean buoys. The data was remotely downloaded to a laptop on shore and used to model the behavior of the plume created by Honouliuli Wastewater Treatment Plant (WWTP) effluent. A remote system was also used to collect and transmit dust data generated at a bridge widening construction site in Wailua, Kaua'i. The Contractor used the system to stay in compliance with State of Hawai'i regulatory requirements. The instrument systems included solar powered, real-time, continuous dust monitors and data recorders, a weather station to measure wind and rainfall, and software for dust mass concentration analysis and report generation. An automatic alarm notification system

was developed that warned Contractor site supervisors of impending non-compliance conditions with a text message or email, allowing sufficient time to correct the situation. Oceanit created a website that was updated every 10 minutes with the latest monitoring data and equipment status.

Information Technology Solutions. Oceanit's Innovation Insights (II) staff can work closely with our engineers and inspectors to provide forms, manuals and reports tailored to their needs and comply with all State and Federal requirements. Oceanit has the in-house capabilities to perform both Microsoft SQL Server and Oracle database development services for a variety of projects. Recent completed projects include the Statewide Dam Inventory for DLNR Dam Safety, Water Resources Information Management System and the Enforcement Management System for DLNR DOCARE. We also have recently completed projects for DOH, C&C of Honolulu, the County of Hawaii Department of Water and federal agencies.

Machine Learning and Artificial Intelligence. Oceanit's AI team has developed machine learning AI applications that allow computers to digest data, recognize patterns, and infer answers to critical strategic problems. Some examples across various industries include rapid infrastructure damage assessment, traffic studies, erosion rate definition, object/crowd counting, state of health prediction, predictive maintenance, and detecting material composition using light absorption.

Student Outreach Program. Oceanit is a major advocate for bringing science and technology to schools around Hawai'i and bringing students into real engineering projects. Our mission is to empower Hawai'i's kids with skills and experiences that are Human-, Business-, and Technical-based, so they can build greater prosperity for all of Hawai'i. Oceanit's Altino program partners with local K-12 schools to train teachers and students to learn coding and programming in interactive and entertaining ways. We also provide learning opportunities to High School students by involving them in real engineering projects, if allowed and desired by clients.

REFERENCES

Oceanit's project team has the experience and qualifications to complete the requested professional services on time and within budget. All project deliverables will meet or exceed your standards and expectations. The best judges of the firm's past performance are the clients who have benefitted from Oceanit's efforts. Please contact the following references to verify service, technical skills, quality, and schedule and budget performance. All references listed below have worked with Oceanit within the preceding year.

- Ms. Diana Lee, Project Manager
State of Hawai'i, Department of Transportation, Airports Division
808/953-5182, diana.lee@hawaii.gov
- Ms. Mung Fa Chung, Engineering Project Manager
State of Hawaii, Department of Transportation, Highways Division
808/832-3403, mungfa.chung@hawaii.gov
- Mr. Finn D. McCall, P.E.
State of Hawai'i, Department of Land and Natural Resources, DOBOR
808/587-3250, finn.d.mccall@hawaii.gov
- Mr. Brandon H.L. Shima
University of Hawaii Office of Project Delivery
808/216-4780; bshima@hawaii.edu

CONFLICT OF INTEREST

Oceanit does **not** have any conflict of interest in performing services for the State of Hawai'i.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE



32. DATE

26 May 2023

33. NAME AND TITLE

Ken Cheung, PhD, PE, Science and Engineering Director

General Qualifications

**FEDERAL STANDARD FORM 330
SUPPLEMENTAL QUESTIONS**

If using the FS Form 330, please provide the following data about your firm. If the questions do not apply, enter "N/A".

- | | |
|---|---------------------------------|
| 1. Number of employees: | <u>20 (Engineering Section)</u> |
| 2. Number of active projects as prime: | <u>51</u> |
| 3. Number of active projects as associate: | <u>0</u> |
| 4. Total estimated construction cost of present projects (only portion for which your firm is responsible): | <u>\$ 60,000,000.00</u> |

Appendix I
Oceanit Key Personnel Certifications

STATE OF HAWAII

DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS



PROFESSIONAL ENGINEER

*This is to Certify that
JASON Y LEE
was duly licensed as a*

PROFESSIONAL ENGINEER

In the State of Hawaii.



and is therefore authorized to practice this Profession within the State of Hawaii. In witness whereof, this License has been issued and the Seal of the Board affixed hereto, this 23rd Day of November, A.D 2009

No. 13669

Chairperson

MICHAEL J H FOLEY
3238 PATY DR
HONOLULU, HI 96822

PROFESSIONAL ENGINEER

NOTICE THIS POCKET ID CARD IDENTIFIES YOU TO THE PUBLIC AS BEING CURRENTLY LICENSED AND SHOULD BE KEPT IN YOUR POSSESSION AT ALL TIMES.

License Number PE-17342	Expiration date 4/30/2024		CLASSES (ACTIVE):
STATE OF HAWAII DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS PROFESSIONAL ENGINEER CLASS(ES): CE CIVIL MICHAEL J H FOLEY 3238 PATY DR HONOLULU, HI 96822  _____ SIGNATURE OF LICENSEE			

STATE OF HAWAII

DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS



PROFESSIONAL ENGINEER



*This is to Certify that
OM S DAS
was duly licensed as a*

PROFESSIONAL ENGINEER

In the State of Hawaii.

and is therefore authorized to practice this Profession within the State of Hawaii. In witness whereof, this License has been issued and the Seal of the Board affixed hereto, this 12th Day of October, A.D 2015

No. 16715

Chairperson

STATE OF HAWAII

DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS



BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS

*This is to Certify that
LINYAN LI GOO
was duly licensed as a*

PROFESSIONAL ENGINEER

In the State of Hawaii.

and is therefore authorized to practice this Profession within the State of Hawaii. In witness whereof, this License has been issued and the Seal of the Board affixed hereto, this 21st Day of February, A.D 2023

No. 20193



A handwritten signature in black ink, appearing to read "Chy Loo".

Chairperson

STATE OF HAWAII

DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS



BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS



hereby certifies that on the date hereof

JORDAN W MONIUSZKO

was duly licensed as a

PROFESSIONAL ENGINEER

and is therefore authorized to practice this Profession

within the State of Hawaii

*In witness whereof, this License has been issued and the Seal of the Board
affixed hereto, this 11th day of December, A.D. 2018 at Honolulu, Hawaii.*

Roberto B. Gunnal

Chairperson

No. 18274

The Construction Manager Certification Institute



Certified Construction Manager

Jordan Moniuszko

has voluntarily met the prescribed criteria of the CCM program with regard to formal education, practical experience and demonstrated capability and understanding of the construction management body of knowledge. The aforementioned individual has met the professional standards and demonstrated a commitment to providing the highest level of quality professional construction management services.

14192

CMCI #

A handwritten signature in black ink that reads 'D.J. Mason III'.

CMCI Board of Governors Chair



March 2021

Certification Date

March 2024

Valid Through

Appendix II
Oceanit Brochure

OCEANIT IS REIMAGINING INNOVATION, TO BREAK THE BONDS OF 'NORMAL' AND SOLVE THE IMPOSSIBLE.

Oceanit is a 'Mind to Market' company founded in 1985 on Oahu, Hawai'i. We have earned a world-class reputation for moving fundamental scientific breakthroughs from the lab to the market. Built upon our values of Curiosity, Community, and Ohana, we are a skilled group of scientists, engineers, innovators, and entrepreneurs delivering solutions, products, and services to clients across a multitude of diverse industries.

Mind to Market is the disciplined process that allows us to deliver our breakthrough science to real-world users. Oceanit delivers cut-edge solutions, services, and products to customers across a vast range of industries. Using a variety of paths to market - including corporate co-development, private equity financing, managed acquisition, and direct manufacturing - Oceanit delivers disruptive innovation to the world.

Oceanit practices a proprietary discipline we call Intellectual Anarchy™ that reimagines innovation - empowering our team to break down silos, transcend disciplines, and cross-pollinate ideas and expertise. We create breakthrough ideas, insights, discoveries, and developments as an interdisciplinary force.



Delivering the Future

Oceanit is reimagining innovation to break the bonds of normal and solve the impossible. We are ambitious explorers and discoverers. By embracing transdisciplinary teams and thinking, we create value through innovative science, technology and engineering to make an extraordinary impact on our future.

RiSE

The Resilient Sustainable Engineering (RiSE) team is focused on innovative, responsible, effective, and sustainable engineering solutions. RiSE delivers infrastructure, community works, and ecosystems that are capable of surviving and functioning under chronic stress and recovering quickly from extreme events.

Science & Technology

The S&T team is made up of scientists, engineers, academics, and doctors working at the jagged edge of science to infuse innovation across industries. We develop, sustain, and improve upon technologically superior products and services – while becoming a trusted and valued partner to our customers.

Innovation Consulting

The Innovation Consulting (IC) team contributes to our clients' success and evolution by practicing Design Thinking and empowering organizational change. IC derives value from data, user needs, and process pain points - providing relevant and actionable insights – to solve human-centric problems.

Build a Sustainable Future Through Innovative, Responsible, and Impactful Engineering Solutions

For over 35 years, Oceanit has worked to solve the unique and diverse engineering challenges facing coastal communities and ecosystems. Our mission is to develop innovative and sustainable engineering solutions that work **for** people and **with** the environment – solutions that will survive and function for decades to come, resisting chronic stress and recovering from extreme events.

The Resilient and Sustainable Engineering (RiSE) team is made up of engineers, scientists, and planners working together to build a positive future for Hawai'i and other Pacific communities in the

face of the steep ecological and economic challenges of climate change.

Utilizing advanced modeling, Design Thinking, and artificial intelligence technologies, RiSE provide leading-edge consulting, reports, and designs that go beyond traditional engineering to minimize environmental impact while maximizing sustainable results. Oceanit is building a better future for our islands and beyond through innovative, responsible, and impactful engineering solutions.

Coastal Engineering



RiSE focuses on dynamic coastal processes, including the impacts of sea-level rise, reef depletion, and beach erosion on communities, infrastructure, and natural ecosystems.

- Beach nourishment & shoreline erosion protection
- Advanced data-capture & artificial intelligence-assisted analysis
- Coastal process analysis and modeling
- Submerged reef design

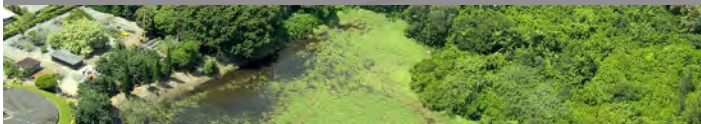
Environmental Engineering



RiSE provides innovative solutions to protect the environment, monitor our precious ecosystems, and safeguard habitat resources. Our philosophy is to serve as environmental stewards of our land, working with natural processes to ensure enduring success.

- Environmental monitoring pollution control
- Wetland, marsh, and ecosystem restoration and monitoring
- Document preparation for planning and permitting
- Environmental assessments

Water Resources Engineering



RiSE has extensive experience and expertise working with water resources and their associated range of economic, environmental, and social benefits.

- Flood control design and modeling
- Wastewater/outfall monitoring
- Dam/reservoir inspection, decommissioning, and rehabilitation
- Groundwater resource development and assessment

Civil Engineering



RiSE works on a variety of projects to install, repair, upgrade, or replace utility and transportation infrastructure, with careful consideration for the people who will use them.

- Harbor and utilities engineering
- Construction permitting and construction management
- Site development design
- Airport and transportation infrastructure

SCIENCE & TECHNOLOGY | SOLVING THE IMPOSSIBLE

Oceanit's Science & Technology team identifies impactful problems and develops groundbreaking, transdisciplinary solutions on the jagged edge of science. The team of scientists, engineers, academics, and MD's are delivering a better future for the world. We are pioneering a new model of innovation: driving breakthrough technologies from Mind to Market: shepherding radical ideas from theory, to field trial prototypes, and onward to real-world applications.

Our interdisciplinary projects blend disciplines, cross-pollinate ideas, and deliver human-centered solutions. We seek to develop, sustain, and continually improve-upon technologically superior products & services across diverse industries.

Our expertise includes:

- Nanotechnology & Materials
- Artificial intelligence
- Sensors & Communications
- Computer Vision & Software
- Life Sciences: therapeutics & treatments
- Aerospace & Defense
- Energy, oil & gas
- IoT

Nanotechnology

Oceanit has developed a range of nanocomposite materials which impact many industries. These materials have a broad spectrum of advanced functions like self-healing, wettability, hydrophobicity, ice-phobicity, oleophobicity and more.



Artificial Intelligence

Oceanit is delivering groundbreaking work in the field of Artificial Intelligence; not just machine learning and neural nets, but next generation 'anthronoetic,' or "human-style" cognition based on moral linguistics. We call this AI "NoME": Noetic Mathematical Engine.



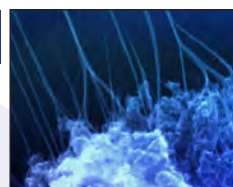
Sensors & Communication

Smart material sensors, precision tracking, advanced mesh networks, and global positioning are just a few of the sensor & communication technologies worked on at Oceanit, that impact industries such as Defense, Energy, Transportation, and more.



Life Sciences

Life sciences at Oceanit encompasses research, development, technology transfer and commercialization of medical products and devices. We bring together work in Nanotechnology, Software & Sensors to develop novel approaches to life-saving problems.



Computer Vision

Oceanit is pioneering ways to make computer vision processing easy and intuitive. The in-house developed Versatile Image Processing Architecture (VIPA) enables rapid prototyping and fluid creative processes through an intuitive user interface; ingesting data from a variety of disparate sources.



Industrial Innovations

Oceanit is developing a host of advanced technologies for the industrial sector. From flexible fuel cells and batteries to noise-reducing blast nozzles and advanced metal plating systems, our engineering and scientists are bringing their combined expertise to deliver cutting-edge industrial sector solutions.



Appendix III
Proof of Company Insurance
Certificate of Vendor Compliance



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

11/08/2022

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: William Sandkuhlero PHONE (A/C, No, Ext): (808) 533-3222 FAX (A/C, No): (808) 533-8777 E-MAIL ADDRESS:																				
	<table border="1"> <thead> <tr> <th colspan="2">INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A: *Crum & Forster Specialty Insurance Comp</td> <td></td> <td>44520</td> </tr> <tr> <td>INSURER B: First Insurance Co. of Hawaii, Ltd.</td> <td></td> <td>00005</td> </tr> <tr> <td>INSURER C: First Indemnity Insurance of HI, Inc.</td> <td></td> <td>41734</td> </tr> <tr> <td>INSURER D: *Broker: NMF Insurance Inc.</td> <td></td> <td></td> </tr> <tr> <td>INSURER E:</td> <td></td> <td></td> </tr> <tr> <td>INSURER F:</td> <td></td> <td></td> </tr> </tbody> </table>	INSURER(S) AFFORDING COVERAGE		NAIC #	INSURER A: *Crum & Forster Specialty Insurance Comp		44520	INSURER B: First Insurance Co. of Hawaii, Ltd.		00005	INSURER C: First Indemnity Insurance of HI, Inc.		41734	INSURER D: *Broker: NMF Insurance Inc.			INSURER E:			INSURER F:	
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INSURER D: *Broker: NMF Insurance Inc.																					
INSURER E:																					
INSURER F:																					
INSURED Oceanit Laboratories, Inc. 828 Fort Street Mall, Suite 600 Honolulu HI 96813																					

COVERAGES

CERTIFICATE NUMBER: 22-23 CCG3

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	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Professional Liability GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> 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 fund of the State of Hawaii. *EPK141720 Broker Name: NMF Insurance Inc / IC International License #: 118063 Address: 1022 Bethel Street, Suite 100, Honolulu, Hawaii 96813	11/13/2022	11/13/2023	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 25,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Professional Liability \$ 1,000,000
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			CBA10002198772	11/13/2022	11/13/2023	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
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y / N If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	FWC100010127021	11/13/2022	11/13/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 500,000 E.L. DISEASE - EA EMPLOYEE \$ 500,000 E.L. DISEASE - POLICY LIMIT \$ 500,000

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**

Oceanit Laboratories, Inc. 828 Fort Street Mall, Ste 600 Honolulu HI 96813-0000	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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STATE OF HAWAII
STATE PROCUREMENT OFFICE

CERTIFICATE OF VENDOR COMPLIANCE

This document presents the compliance status of the vendor identified below on the issue date with respect to certificates required from the Hawaii Department of Taxation (DOTAX), the Internal Revenue Service, the Hawaii Department of Labor and Industrial Relations (DLIR), and the Hawaii Department of Commerce and Consumer Affairs (DCCA).

Vendor Name: OCEANIT LABORATORIES, INC.

DBA/Trade Name: OCEANIT LABORATORIES, INC.

Issue Date: 03/21/2023

Status: **Compliant**

Hawaii Tax#: 20369234-01

New Hawaii Tax#:

FEIN/SSN#: XX-XXX8128

UI#: XXXXXX6037

DCCA FILE#: 60203

Status of Compliance for this Vendor on issue date:

Form	Department(s)	Status
A-6	Hawaii Department of Taxation	Compliant
8821	Internal Revenue Service	Compliant
COGS	Hawaii Department of Commerce & Consumer Affairs	Compliant
LIR27	Hawaii Department of Labor & Industrial Relations	Compliant

Status Legend:

Status	Description
Exempt	The entity is exempt from this requirement
Compliant	The entity is compliant with this requirement or the entity is in agreement with agency and actively working towards compliance
Pending	A status determination has not yet been made
Submitted	The entity has applied for the certificate but it is awaiting approval
Not Compliant	The entity is not in compliance with the requirement and should contact the issuing agency for more information