
STATEMENT OF SERVICES, RÉSUMÉS, & PROJECT LIST



PLANNING SOLUTIONS, INC.



February 2020

711 Kapi'olani Boulevard, Suite 950, Honolulu, HI 96813

808-550-4483

www.psi-hi.com

SUMMARY OF CAPABILITIES AND SERVICES PROVIDED

Planning Solutions, Inc. (PSI) is a small business incorporated in the State of Hawai'i. Its mission is to provide high-quality environmental and land use planning services. Its emphasis is on providing sound regulatory and environmental advice and reports for technically complex, and sometimes controversial, projects in Hawai'i and the Pacific.

The company's staff members possess planning and scientific expertise that allows them to understand and provide recommendations concerning the management of Hawai'i's physical, biological, and cultural resources. PSI relies on its excellent communication skills, extensive local experience, and proven ability to work with government agencies at all levels for the acquisition of discretionary permits and the resolution of potential regulatory and environmental impediments to moving projects forward. PSI provides the most appropriate team for each project by assembling local, mainland, and international experts to work under its direction in response to specific project requirements. By keeping our company small, we retain the flexibility to team with the best talent for particular tasks without the need to support a large, in-house staff.

PSI is committed to the use of technology whenever it can increase quality and efficiency and/or decrease costs. We keep current and proficient with GIS, CAD, graphics, and standard business office systems as well as with GPS, computer modeling, photographic, and chemical sensor field systems. In this way, we can work efficiently and effectively with technical experts in many fields to fulfill clients' needs.

Specific services offered by the firm include:

- *Preparing Environmental Assessments and Environmental Impact Statements:* Our staff prepares federal (National Environmental Policy Act) and state (Chapter 343, Hawaii Revised Statutes) environmental documentation for a wide variety of projects. These projects range from small structures occupying less than an acre to large, multi-faceted industrial, research, utility, resort, and residential facilities occupying hundreds or thousands of acres.
- *Preparing Land Use and Environmental Permitting Strategies:* Large and technologically sophisticated or socially sensitive projects often require an array of land use approvals and environmental permits. The PSI staff is experienced at identifying these requirements, evaluating alternative strategies for obtaining needed approvals, and preparing permit acquisition plans.
- *Conducting Site Selection Studies:* PSI helps landowners, developers, utilities, and government agencies identify appropriate locations and configurations for their projects.
- *Preparing Land Use and Environmental Permit Applications:* Our staff is conversant with federal, state, and county land use and environmental laws and regulations. It has the technical qualifications and experience to prepare and help process successful applications.
- *Developing Facility Plans:* PSI staff members participate in and direct the preparation of conceptual master plans for various large-scale public facilities, including airports, harbor facilities, parks, and other recreation facilities.
- *Preparing Habitat Conservation Plans:* PSI prepares Habitat Conservation Plans for species protected under Federal and State Endangered Species Acts. While preparing these plans, it works in concert with federal and state agencies to identify and develop measures that minimize and mitigate take of endangered species.
- *Preparing Historic Preservation Plans:* PSI prepares master plans for the preservation of historic and cultural resources, develops mitigation programs, and is responsible for obtaining

clearance from state and federal authorities for activities with the potential to affect historic sites.

- *Preparing Water Quality Evaluations and Discharge Permit Applications:* Staff members evaluate existing water quality, prepare comprehensive applications for discharges of wastewater, storm water, and fill, and coordinate the preparation and processing of applicable permits at the federal, state, and county level.
- *Assuring Permit Compliance:* PSI helps clients track and coordinate their various permitting activities to ensure timely compliance with mandated permit conditions. This includes monitoring sensitive environmental indicators and helping to ensure that construction practices are in accord with permit conditions.
- *Developing and Applying Geographic Information Systems (GIS) & Computer-Aided Design (CAD) Technology:* PSI routinely uses GIS and CAD software (e.g. ArcGIS® and AutoCAD®) for a wide variety of spatial analysis and mapping tasks.
- *Graphic Design:* Members of our staff are proficient in using Adobe Photoshop®, Corel Graphics Suite®, and other graphic design programs. This in-house graphic design capability allows us to efficiently generate professional quality figures for inclusion in our documents.

STAFF RÉSUMÉS



PLANNING SOLUTIONS, INC.



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Mr. James “Jim” Hayes is the President and Principal Environmental Planner at Planning Solutions, Inc. He has nearly three decades of experience in various environmental fields, primarily in Hawai‘i but also the West Coast. Mr. Hayes has served as project manager and/or lead author of numerous environmental studies, principally on Environmental Assessments and Environmental Impact Statements that comply with HRS Chapter 343 and the National Environmental Policy Act (NEPA). He has extensive experience with federal-aid projects that require compliance with the National Historic Preservation Act, Endangered Species Act, Clean Water Act, and other federal regulations. He has worked on highway, transit, high speed rail, energy, scientific research, artificial reef, storm water, utility, and other infrastructure projects.

His professional expertise includes:

- Environmental Impact Analysis
- Alternative Analysis and Feasibility Studies
- Land Use Permits
- NHPA Section 106 Consultations/Determinations
- Habitat Conservation Plans
- ESA Section 7 Reviews/Determinations and Section 10 Habitat Conservation Plans
- DOT Section 4(f) Reviews, Evaluations, and De minimis
- Emergency Response Projects
- Hazardous Materials Issues
- Geology and Hydrogeology

Mr. Hayes’ educational credentials consist of:

- B.S., Earth and Planetary Sciences, Washington University (in St. Louis)
- B.A., International Development, Washington University (in St. Louis)

His work experience, starting from the most recent, includes:

- President & Principal Environmental Planner, Planning Solutions, Inc., Honolulu, Hawai‘i
- Senior Supervising Planner, Parsons Brinckerhoff, Inc., Honolulu, Hawai‘i
- Environmental Manager, Brewer Environmental Industries, Honolulu, Hawai‘i
- Environmental Scientist, McCully Frick & Gilman, Inc., San Francisco, California
- Peace Corps Volunteer, Iloilo Province, Philippines

Selected projects in which Mr. Hayes has had a principal role include:

- Kaua‘i Island Utility Cooperative (KIUC) Long-Term Seabird Habitat Conservation Plan; HCP
- Long-Term Continuation of Astronomy on Maunakea:
 - Master Plan, 2020-2040
 - Comprehensive Management Plan update
 - Land Authorization EIS
- Nu‘uanu-Lulumahu Recreational Plan, Honolulu; Phase 1 Conceptual Plan
- Honouliuli Wastewater Treatment Plant Biogas Project, Honolulu; EA
- Midway Seabird Protection Project, Midway Atoll; EA and Biological Assessment
- Various Stream Channel Improvements, Honolulu; CWA Section 404/401 permitting
- Mānā Plain Surface/Irrigation Water Management, Kaua‘i; permitting approach and MOA
- Potable Water Pipeline Permitting, Moloka‘i; CWA Section 404/401 and NPDES
- Hawaiian Electric Waiau and Kahe Generating Stations Non-Character Altering Projects; EAs and SMAs
- Thirty Meter Telescope (TMT) Observatory, Maunakea; EIS, CDUP, and contested case
- Interstate Route H-1 Rehabilitation, Middle Street to Vicinity of Ward Avenue; EA and Noise Variance
- Kamehameha Highway Realignment, Vicinity of Laniākea Beach; EA and Task Force
- California High Speed Rail; assessment of impacts associated with hazmat, geology, and paleontology
- Emergency Repair of State Highways, multiple locations; Federal-aid reviews and permits
- Honolulu High-Capacity Transit Corridor Project; EIS, SMA, and other permits
- Carthaginian Artificial Reef, West Maui; EIS and CDUP



Mr. Perry White is the founder of Planning Solutions, Inc., and now serves as its principal planner. With over 45 years of planning and environmental experience in Hawai‘i, Mr. White has been project manager and/or author of well over 150 studies and reports. In addition to his analytical and writing skills, his role as lead planner for many large and complex projects has given him experience coordinating the efforts of interdisciplinary study teams. He has worked on habitat conservation, energy, scientific research, airport planning, park planning, noise compatibility planning, resort, and recreation projects.

He is affiliated with:

- the American Association of Environmental Professionals

His professional expertise includes:

- Habitat Conservation Planning
- Natural Resource Management
- Environmental Impact Analysis
- Site Selection and Feasibility Studies
- Land Use Permit Applications
- Energy Planning and Analysis
- City and Regional Planning
- Park Planning

Mr. White’s educational credentials consist of:

- Master of Regional Planning, University of Pennsylvania
- Teaching Certificate, Secondary Education, University of Hawai‘i
- B.A. History/Economics, Stanford University

His work experience, starting from the most recent, includes:

- Principal Planner, Planning Solutions, Inc., Honolulu, Hawai‘i
- President, Planning Solutions, Inc., Honolulu, Hawai‘i
- Director of Planning, Belt Collins Hawai‘i Ltd., Honolulu, Hawai‘i
- Senior Environmental Planner, Belt Collins & Associates, Ltd., Honolulu, Hawai‘i
- Planner, Belt Collins & Associates, Ltd., Honolulu, Hawai‘i
- Chief Planner, H. Mogi - Planning and Research, Inc., Honolulu, Hawai‘i
- Assistant Planner, Center for Ecological Research in Planning and Design, University of Pennsylvania, Philadelphia, Pennsylvania

Selected projects in which Mr. White has had a principal role include:

- *Tantalus-Round Top Drive Corridor Management Plan*, O‘ahu
- *Environmental Impact Statement for Entitlements to Land on Maunakea*, Island of Hawai‘i
- *Long-Term Habitat Conservation Plan: Kaua‘i Island Utility Cooperative*, Kaua‘i, Hawai‘i
- *Environmental Impact Statement for the Hoakalei Master Plan Update Project*, ‘Ewa Beach, O‘ahu
- *Environmental Assessment for the Kahe Utility Scale Photovoltaic Project*, Kahe Valley, O‘ahu
- *Environmental Impact Statement for the Schofield Generating Station*, Central O‘ahu
- *Environmental Analyses and Permit Applications for Olokele River Hydro*, Kaua‘i
- *Environmental Impact Assessment and Permitting for HECO Barbers Point Pipeline*, O‘ahu
- *KIUC HCP: Management of Minimization/Mitigation Project Implementation*, Kaua‘i
- *Site Selection Study for LPG Storage Facility*, Island of Hawai‘i
- *Facility Lighting Study and Analysis, Hawai‘i Electric Light Company*, Island of Hawai‘i
- *Environmental Assessment for Keawakapu Reef Project*, Keawakapu, Maui
- *Facility Lighting Study and Analysis, Hawaiian Electric Company, O‘ahu*, Hawai‘i
- *Master Plan and Environmental Impact Statement for Kīholo State Park Reserve*, Kona, Hawai‘i
- *Environmental Assessment/Environmental Report for Anahola Solar Project*, Anahola, Kaua‘i
- *Streetlight Minimization Opportunities Analysis: Kaua‘i Island Utility Cooperative*, Kaua‘i, Hawai‘i



- *Environmental Report for Upper Waiahi Powerhouse Expansion Project*, Waiahi Stream, Kaua‘i
- *Permitting Requirements for LNG terminal facilities on O‘ahu*, Hawai‘i
- *Identification and Assessment of Solid Biofuel Delivery Options*, Waiau, Hawai‘i
- *Kaua‘i Seabird Habitat Conservation Plan (KSHCP) Application for County of Kaua‘i*, Kaua‘i
- *Permitting Analysis for Puna Biomass Conversion Project*, Puna, Hawai‘i
- *Environmental Assessment, SMA Permit Application and Conditional Use Permit for Kahe Generating Station 2011 Projects*, Kapolei, O‘ahu
- *Kaua‘i Seabird Habitat Conservation Plan (KSHCP) Application for KIUC*, Kaua‘i
- *Long-Term Water Quality Monitoring, Duke Kahanamoku Lagoon*, Waikīkī, O‘ahu
- *Habitat Conservation Plan Environmental Assessment (NEPA) for Kaua‘i Lagoons*, Līhu‘e, Kaua‘i
- *Environmental Impact Statement (NEPA) for Gray’s Beach Restoration*, Waikīkī, O‘ahu
- *Conservation District Use Application for the Thirty-Meter Telescope*, Mauna Kea, Hawai‘i
- *Environmental & Permitting assistance for OTEC development in Hawai‘i*, Lockheed Martin Corp
- *Preliminary Permit & Environmental Assessment for Oceanlinx Wave Energy Project*, Maui, Hawai‘i
- *Environmental Impact Statement/CDUP Application: Kaheawa Wind Farm Expansion*, Maui, Hawai‘i
- *Environmental Assessment: Honua Biomass Gasification and Electrical Power Facility*, ‘Ewa, O‘ahu
- *Permitting analysis for facility to convert fats, oil and grease into SNG & bio-diesel fuel*, O‘ahu
- *Environmental Impact Statement, CIP Generating Station*, ‘Ewa, O‘ahu
- *Environmental Impact Statement, Duke Kahanamoku Lagoon Restoration*, Waikīkī, O‘ahu
- *Environmental Assessment for 2007 Additions to Kahe Generating Station*, Kahe, O‘ahu
- *Environmental Assessment, SMA Permit Application, & Conditional Use Permit Modification for Various Facilities at Waiau Generating Station*, O‘ahu
- *Technical Assistance to E² Inc.: Waianae Coast Community Action for a Renewed Environment (CARE) Project*
- *Kaua‘i Island Utility Cooperative Habitat Conservation Plan*, Kaua‘i
- *Zoning & State Land Use District Boundary Amendments*, Maunaloa Village, Mōloka‘i
- *Feasibility Study for Kahe Wind Energy Project*, Kahe, O‘ahu
- *Environmental Impact Statement for the Waiau Fuel Line Project*, O‘ahu
- *Kawaihae Propane Storage Facility Project Permitting Analysis*, Kawaihae, Hawai‘i
- *NPDES Construction Stormwater Permit for the Waiau Fuel Pipeline Project*, O‘ahu
- *Critical Habitat Consultation, North Fork of the Wailua River*, Kaua‘i
- *Stream Channel Alteration Permit, Department of the Army Permit, and 401 Water Quality Certification Applications for the Waiau Fuel Pipeline Project*, O‘ahu, Hawai‘i
- *Environmental Assessment for the Honomū Well*, Hilo, Hawai‘i
- *Critical Habitat Planning, Kauai Electric Transmission System*, Kaua‘i
- *Power Line Alignment Study, Kekaha to Pu‘u Ka Pele Substation*, Kekaha, Kaua‘i
- *Environmental Assessment (NEPA) and Permitting Documentation for the Pacific International Center for High Technology CO₂ Ocean Sequestration Experiment*, Hawai‘i and Gulf of Mexico
- *Environmental Planning for Kahe Power Plant Discharge Structure Repair*, Kahe Point, O‘ahu
- *Environmental Assessment for the Wai‘āha Production Well*, North Kona, Hawai‘i.
- *Site Selection, Environmental Impact Statement, and Land Use Permits for Līhu‘e Energy Service Center*, Līhu‘e, Kaua‘i
- *Environmental Assessment for the Proposed Mānana Development Spine Road*, O‘ahu, Hawai‘i
- *Environmental Reports for Proposed Power Generation Facilities: Koloa & Port Allen*, Kaua‘i
- *Environmental Assessment for the Proposed Pearl City Bus Facility*, O‘ahu, Hawai‘i
- *Master Plan and Environmental Assessment for Kahua o Waikalua Neighborhood Park*, Kaneohe, Hawai‘i
- *Special Management Area Permit, Kahului Airport Improvements*, Kahului, Maui
- *Environmental Assessment for the Saddle Road Well*, Hilo, Hawai‘i
- *Waiulua Bay Beach Improvement Study, Phase 1: Preliminary Conceptual Design*
- *Enhanced Mobile Satellite Services (EMSS) Gateway Facility Planning and Construction Documents*, NCTAMS EASTPAC, O‘ahu
- *Archaeological Preservation Plan, Ewa Marina Project*, ‘Ewa, O‘ahu



- *Kalaeloa Airport Master Plan and Noise Compatibility Planning*, Barbers Point, O‘ahu
- *East Maui Water Development Plan Supplemental EIS*, Wailuku, Maui
- *Land Use Element, Hawaiian Electric Company Externalities Study*
- *Environmental Assessment & Permitting for 1995 Unit Addition at Mā‘alaea Power Plant*, Mā‘alaea, Maui
- *‘Ewa Marina Project Department of the Army Permitting and 401 Water Quality Certification*, O‘ahu
- *Waikoloa Beach Resort Shoreline Recreation Improvements Study*, South Kohala, Hawai‘i
- *Kahului Airport FAR Part 150 Noise Compatibility Program*, Maui
- *Environmental Assessment for Remote-Sensing Experiments*, Maui Space Surveillance Site, Haleakala, Maui
- *Kahului Airport State Land Use District Amendment Petition*, Maui
- *Environmental and Land Use Permits and Approvals Required by HELCO’s Waiau and Pu‘ueo Hydroelectric Plants*, Hilo, Hawai‘i
- *AEOS Telescope EA and Permitting*, Maui
- *Hilton Hawaiian Village Kālia Tower Project EIS & Permitting*, Honolulu, O‘ahu
- *Feasibility Study for Petroleum Storage Facility, USAKA, Kwajalein*
- *Hilo Commodities Irradiation Facility EIS*, Island of Hawai‘i, O‘ahu
- *Ali‘i Highway Alignment Study and EIS*, Island of Hawai‘i
- *Kahului Airport Master Plan Update and Noise Compatibility Plan*, Maui
- *Hilo International Airport Master Plan and Noise Compatibility Program*, Hilo, Hawai‘i
- *Hawaiian Electric Company Power Generating Facility Siting Study*, O‘ahu
- *MECO Central Maui Siting Study*, Maui
- *Applied Energy Services 180 MW Generating Station EIS & Permitting*, ‘Ewa, O‘ahu
- *Kahului-Ho‘okipa Shoreline Recreation Plan*, Wailuku, Maui
- *Hawaiian Cogeneration Association 205 MW Generation Station Permitting Strategy*, Barbers Point, O‘ahu
- *Combined-Cycle Generating Station EIS & Permitting*, Campbell Industrial Park, O‘ahu
- *Kuilima Resort Environmental Impact Statement*, Kahuku, O‘ahu
- *Environmental Impact Statement for the HPOWER Waste-to-Energy Facility*, ‘Ewa, O‘ahu
- *Waikoloa Beach Resort Environmental Impact Statement*, South Kohala, O‘ahu
- *Mauna Lani Beach Resort Environmental Impact Statement*, South Kohala, Hawai‘i



Mr. Mākena White, AICP has been with Planning Solutions, Inc. since 2000 as a planner and GIS analyst. He has worked on a wide range of projects including environmental planning and impact analysis at the state and federal levels, alternative energy development, water resource management, habitat conservation planning, park and wilderness area master planning, and environmental permitting. Through these efforts he has developed familiarity with HRS Chapter 343 and National Environmental Policy Act processes and requirements. By consistently creating carefully researched and presented work products, Mr. White has worked successfully on behalf of our clients to obtain necessary permits and approvals, building relationships with County, State, and Federal regulators and agencies along the way.

He is affiliated with:

- the American Institute of Certified Planners (AICP)
- the American Planning Association
- the Psi Chi (ΨΧ) International Honor Society in Psychology

His professional expertise includes:

- Conservation Planning
- Geographic Information Systems
- Land Use Permit Applications
- Environmental Impact Analysis
- Graphic Design
- Ecological Monitoring

Mr. White's educational credentials consist of:

- Certified Planner, AICP
- Master of Science (MS), Chaminade University of Honolulu
- Bachelor of Arts (BA), University of Hawai'i at Mānoa

His work experience, starting from the most recent, includes:

- Planner, Planning Solutions, Inc., Honolulu, Hawai'i
- Graphic Technician, Planning Solutions, Inc., Honolulu, Hawai'i

Selected projects Mr. White has been responsible for or involved in, include:

- *Helemano Wilderness Area Management Plan*, Honolulu, O'ahu
- *Environmental Assessment for Wai'aha Well B Project*, Wai'aha, Hawai'i
- *Conservation District Use Permit for the Kaloko Mid-Level Monitoring Well Project*, Kaloko, Hawai'i
- *Environmental Assessment for the Ota Well Project*, North Kona, Hawai'i
- *Tantalus-Round Top Drive Corridor Management Plan*, Honolulu, O'ahu
- *Environmental Assessment for the Midway Seabird Protection Project, Midway Atoll National Wildlife Refuge*, Northwest Hawaiian Islands
- *Environmental Assessment for the Honouliuli Wastewater Treatment Plant Biogas Project*, Honouliuli, O'ahu
- *Environmental Assessment for the Hala'ula Production Well Project*, Hala'ula, Hawai'i
- *Nu'uuanu-Lulumahu Recreational Plan*, Nu'uuanu, O'ahu
- *Environmental Impact Statement for the Kaua'i Island Utility Cooperative's Long-Term Habitat Conservation Plan*, Island of Kaua'i
- *Environmental Assessment for Non-Character Altering Projects at Waiau Generating Station*, Pearl City, O'ahu
- *Environmental Assessment for Non-Character Altering Projects at Kahe Generating Station*, Kahe Valley, O'ahu
- *Environmental Assessment for Kumu Camp*, Anahola, Kaua'i
- *Environmental Impact Statement for the Hoakalei Master Plan Update Project*, 'Ewa Beach, O'ahu
- *Environmental Assessment for the Kahe Utility Scale Photovoltaic Project*, Kahe Valley, O'ahu



- *Kīholo State Park Master Plan and Environmental Assessment, North Kona, Hawai‘i*
- *Puna Biomass Conversion Project, Puna, Hawai‘i*
- *Keawakapu Artificial Reef Project Environmental Assessment, Kīhei, Maui*
- *Anahola Solar Project, Kaua‘i, Hawai‘i*
- *Hawaiian Electric Co., Inc. Kahe Generating Station Improvements, Kahe Valley, O‘ahu*
- *Maui Electric Co. System Seabird Habitat Conservation Project, Maui*
- *Honua Power Project, ‘Ewa, O‘ahu*
- *Kauai County Seabird Habitat Conservation Plan, Kaua‘i*
- *Environmental Assessment for Hale Maunaloa Residence, Maunaloa, Moloka‘i, Hawai‘i*
- *Kauai Island Utility Cooperative Rural Utility Service Application, Kaua‘i*
- *Visual Impact Assessment for Kaheawa Wind Power II, Maui*
- *Restoration Plan, Permits, & Environmental Assessment, Duke Kahanamoku Lagoon Restoration Project, Waikīkī, O‘ahu*
- *Campbell Industrial Park Generating Station Environmental Impact Statement, Campbell Industrial Park, Barbers Point, O‘ahu*
- *North Shore Reliability Enhancement Project Alignment Study, Kaua‘i*
- *Islandwide Electric Power Line Habitat Conservation Plan, Kaua‘i*
- *Endangered Bird Monitoring & Habitat Enhancement, Ocean Pointe, ‘Ewa, O‘ahu*
- *Ocean Pointe Archaeological Preservation Plan Implementation, ‘Ewa, O‘ahu*
- *Environmental Assessment, SMA Permit, and Shoreline Setback Variance, Pāpipi Road Drainage Improvements Project, ‘Ewa, Hawai‘i*
- *Environmental Assessment & Permits, Stable Tank Reservoir & Waterline, Kapa‘a, Kaua‘i*
- *Zoning & State Land Use District Boundary Amendments, Maunaloa, Moloka‘i*
- *Environmental Impact Statement for the Waiau Fuel Line Project, O‘ahu*
- *Kawaihae Propane Storage Facility Project, Kawaihae, Hawai‘i*
- *NPDES Construction Stormwater Permit for the Waiau Fuel Pipeline Project, O‘ahu*
- *Critical Habitat Consultation, North Fork of the Wailua River, Kaua‘i*
- *Stream Channel Alteration Permit, Department of the Army Permit, and 401 Water Quality Certification Applications for the Waiau Fuel Pipeline Project, O‘ahu, Hawai‘i*
- *Environmental Assessment for the Honomū Well, Hilo, Hawai‘i*
- *Critical Habitat Planning, Kauai Electric Transmission System, Kaua‘i*
- *Power Line Alignment Study, Kekaha to Pu‘u Ka Pele Substation, Kekaha, Kaua‘i*
- *Environmental Assessment Report and Permitting Documentation for the Pacific International Center for High Technology CO₂ Ocean Sequestration Experiment, Hawai‘i and the Gulf of Mexico*



Ms. Julia Ham Tashima is working for Planning Solutions, Inc. as a Planner and has been with the firm since 2008. She has conducted field work and has been responsible for preparing reports and data summaries for those efforts. Projects on which she has worked on include those related to environmental planning/environmental impact assessment, habitat conservation planning, environmental permitting, permit compliance, and alternative energy project investigations.

Her professional expertise includes:

- Land Use Permit Applications
- Environmental Impact Analysis
- Ecological Monitoring

Ms. Tashima's educational credentials consist of:

- Bachelor of Arts (BA), University of California, Los Angeles

Her work experience, starting from the most recent, includes:

- Planner, Planning Solutions, Inc. – Honolulu, Hawai'i
- Executive Assistant, Honolulu Community Action Program – Honolulu, Hawai'i
- Human Resources Manager, Pictage, Inc. – Torrance, California

Selected projects Ms. Tashima has been responsible for or involved in, include:

- *Environmental Assessment for Wai'aha Well B Project, Wai'aha, Hawai'i*
- *Environmental Assessment for the Ota Well Project, North Kona, Hawai'i*
- *Environmental Assessment for Honouliuli Wastewater Treatment Plant Biogas Project, Honouliuli, O'ahu*
- *Land Authorizations for Long-Term Continuation of Astronomy on Maunakea; EIS, Island of Hawai'i*
- *Long-Term Habitat Conservation Plan: Kaua'i Island Utility Cooperative, Kaua'i*
- *KIUC Habitat Conservation Plan: Management of Minimization/Mitigation Project Implementation, Kaua'i*
- *Environmental Impact Statement for the Hoakalei Master Plan Update Project, 'Ewa Beach, O'ahu*
- *Facility Lighting Study and Analysis, Hawai'i Electric Light Company, Island of Hawai'i*
- *Facility Lighting Study and Analysis, Hawaiian Electric Company, O'ahu*
- *Environmental Assessment for Keawakapu Reef Project, Keawakapu, Maui*
- *Environmental Assessment/Environmental Report for KIUC's Anahola Solar Project, Kaua'i*
- *Environmental Report for Upper Waiahi Powerhouse Expansion Project, Waiahi Stream, Kaua'i*
- *Environmental Assessment for HECO Kahe Generating Station 2011 Projects, O'ahu*
- *Environmental Impact Statement Preparation Notice and EIS for Haseko Lagoon, 'Ewa, O'ahu*
- *Identification and Assessment of Solid Biofuel Delivery Options, Waiau, Hawai'i*
- *Protected Seabirds Site Monitoring Protocols & Procedures for KIUC, Kaua'i*
- *Environmental Assessment for Kaua'i Lagoons Resort's Habitat Conservation Plan, Kaua'i*
- *Master Plan and Environmental Assessment for Kīholo Bay State Park Reserve, Island of Hawai'i*
- *Conservation District Use Permit Application for TMT Telescope, Mauna Kea, Island of Hawai'i*
- *Kaua'i Seabird Habitat Conservation Plan for County of Kaua'i, Kaua'i*
- *Kaua'i Seabird Habitat Conservation Plan for KIUC, Kaua'i*
- *Environmental Impact Statement (NEPA) for Gray's Beach Restoration, Waikīkī, O'ahu*
- *Environmental Assessment and Conditional Use Permit for Honua Biomass Gasification and Electrical Power Generation Facility, 'Ewa, O'ahu*
- *Environmental Assessment for the HELCO Power Line/Access Road for the Ahauloa Well Development*
- *Environmental Assessment for the Hala'ula Exploratory Well, Island of Hawai'i*
- *Environmental Assessment for the Kapulena Well, Island of Hawai'i*
- *Environmental Assessment for the 'Ōla'a Production Well & Reservoir, Island of Hawai'i*
- *Environmental Impact Statement and CDUP Application for Kaheawa Wind Power II, Maui*
- *Habitat Conservation Plan for KIUC, Kaua'i*
- *Zoning and Use Permit Applications for Princeville Well No. 5, Kaua'i*



PROJECT LIST



PLANNING SOLUTIONS, INC.



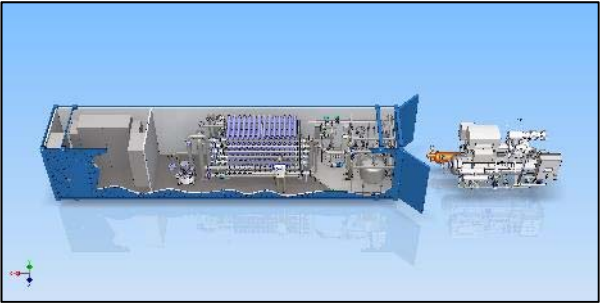


February 2020



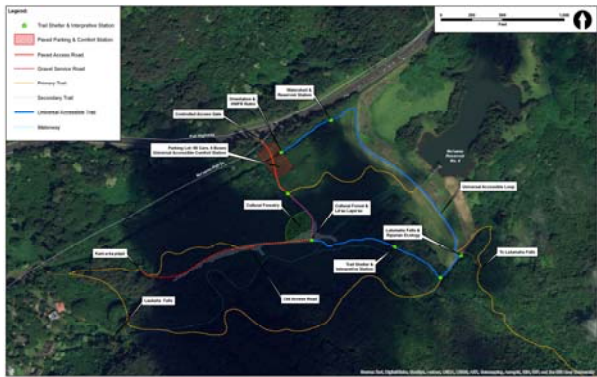
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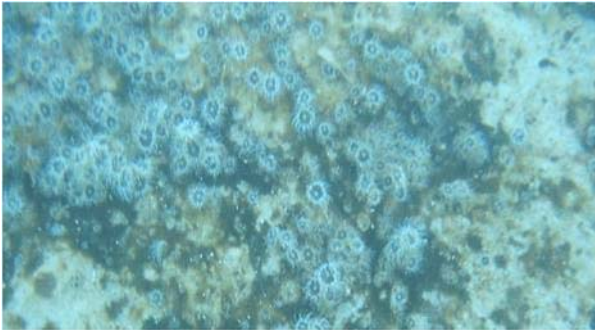
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<i>CLIENT</i>	<i>STATUS</i>	<i>PROJECT DESCRIPTION</i>
<p style="text-align: center;">Division of Forestry and Wildlife</p>  <p style="text-align: center;"><i>Tantalus-Round Top Drive Corridor Above Honolulu</i></p>	<p>Complete 1/2020</p>	<p>Tantalus-Round Top Drive Corridor Management Plan, Honolulu</p> <p>PSI is collaborating with the Division of Forestry and Wildlife to prepare a plan for the maintenance activities, existing facilities, and capital improvements needed to effectively manage this unique urban wilderness. The Plan for the 8-mile-long corridor requires collaboration among State and County agencies and community organizations, with the goal of preserving and enhancing the area.</p>
<p style="text-align: center;">Omizu Architecture / Division of Forestry and Wildlife</p>  <p style="text-align: center;"><i>Team kickoff meeting at educational forest</i></p>	<p>Complete 2019</p>	<p>Moanalua Valley Educational Forest Shelter</p> <p>PSI is collaborating with Omizu Architecture and Division of Forestry and Wildlife to build a shelter to support educational and forest restoration activities in Moanalua Valley on O‘ahu. PSI is assisting with HRS Chapter 6E compliance, agency coordination, and HRS Chapter 343 exemption documentation.</p>
<p style="text-align: center;">Hawai‘i Gas / Sheehan Group</p>  <p style="text-align: center;"><i>Biogas Reclamation and Upgrading Equipment</i></p>	<p>Complete 2018</p>	<p>Honouliuli Waste Water Treatment Plant (HWWTP) Biogas Project, ‘Ewa</p> <p>Hawai‘i Gas is partnering with the Dept. of Environmental Services to construct biogas reclamation and upgrading equipment at HWWTP. The biogas will be sold to Hawai‘i Gas’ customers. PSI, with the Sheehan Group, is preparing all of the environmental review documentation required by HRS Chapter 343.</p>






<i>CLIENT</i>	<i>STATUS</i>	<i>PROJECT DESCRIPTION</i>
<p style="text-align: center;">State Department of Transportation / Park Engineering</p>  <p style="text-align: center;"><i>Erosion adjacent to Kamehameha Highway.</i></p>	Ongoing	<p>Kamehameha Highway Repairs Project, North Shore</p> <p>PSI has partnered with Park Engineering to assist the State Department of Transportation, Highways Division with permitting tasks associated with improvements and repairs to portions of Kamehameha Highway that have been damaged by ocean erosion. PSI is tasked with obtaining all of the Department of the Army permits and approvals related to this project, including Section 401 and Section 404 permits.</p>
<p style="text-align: center;">U.S. Fish and Wildlife Service / Hamer Environmental</p>  <p style="text-align: center;"><i>Sand Island, Midway National Wildlife Refuge</i></p>	Complete 2019	<p>EA for Midway Seabird Protection Project, Midway National Wildlife Refuge</p> <p>PSI is working with Hamer Environmental and the U.S. Fish and Wildlife Service on this project, which is intended to eradicate invasive mice from Midway. These mice predate seabirds and other wildlife present at the refuge. PSI is providing technical support and impact analysis for the project's NEPA EA and assisting with the Biological Assessment (BA) for Section 7 of the ESA.</p>
<p style="text-align: center;">Division of Forestry and Wildlife</p>  <p style="text-align: center;"><i>Phase 1 Conceptual Recreational Plan</i></p>	Complete 2018	<p>Nu'uaniu-Lulumahu Recreational Plan, Nu'uaniu Valley (Phase 1)</p> <p>PSI is working with the Division of Forestry and Wildlife to create a recreational plan for Forest Reserve lands in Nu'uaniu Valley. The Phase 1 Conceptual Plan has been completed. Future phases will further develop the master plan and general alternatives, and ultimately preparing an EA to evaluate the potential impacts of the plan and satisfy the requirements of HRS, Chapter 343. Elements which may be covered by the plan include hiking, hunting, fishing, a cultural forest, and the historic ruins of Kaniakapūpū Summer Palace.</p>



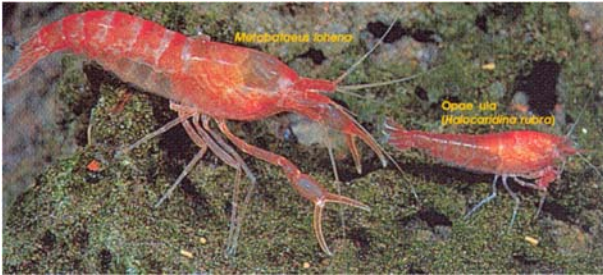


<i>CLIENT</i>	<i>STATUS</i>	<i>PROJECT DESCRIPTION</i>
<p style="text-align: center;">Hawaiian Electric Company, Inc.</p>  <p style="text-align: center;"><i>Waiau Category 3 Envelope</i></p>	<p style="text-align: center;">Complete 2018</p>	<p>Waiau Generating Stations EA and SMP for Non-Character Altering Projects</p> <p>PSI prepared a HEPA EA, with DPP as the accepting authority, for specific projects and project categories for relatively minor, non-character altering projects at Waiau for a period of 10 years. PSI also prepared a SMP Major permit application and assisted with permit processing. Approval gave the Company blanket SMP coverage for these types of projects, significantly streamlining the permitting process over a 10-year period.</p>
<p style="text-align: center;">ITC Water Resources, Inc.</p>  <p style="text-align: center;"><i>Existing Well 17</i></p>	<p style="text-align: center;">Complete 2017</p>	<p>Mōlokaʻi Water System Improvements</p> <p>PSI prepared applications for the Clean Water Act (CWA) permit required for the planned improvements. The required permits include those associated with pipeline gulch crossings (Section 404 DA/401 WQC) and general construction storm water and hydrotesting (NPDES general permits).</p>
<p style="text-align: center;">Hilton Hotels Corporation</p>  <p style="text-align: center;"><i>Anemone (Aiptasia pulchella) on the lagoon sand bottom</i></p>	<p style="text-align: center;">Ongoing Monitoring</p>	<p>Duke Kahanamoku Lagoon Monitoring</p> <p>PSI is managing lagoon monitoring, which generally consists of monthly water quality and biological monitoring. PSI oversees monthly reporting to the HDOH and annual reporting to DLNR, as required by permit conditions.</p>






<i>CLIENT</i>	<i>STATUS</i>	<i>PROJECT DESCRIPTION</i>
<p style="text-align: center;">Kaua‘i Island Utility Cooperative (KIUC)</p>  <p style="text-align: center;"><i>Keālia Line Reconfiguration Project (top-before, bottom-after)</i></p>	<p style="text-align: center;">Complete</p>	<p>KIUC Short-Term Habitat Conservation Plan (HCP) Implementation</p> <p>PSI assists KIUC in the implementation of the \$12M minimization and mitigation measures called for in the approved KIUC Short-term HCP. This includes coordinating meetings with federal and state agencies, reviewing SOWs and annual reports, maintaining budgets for individual projects, and drafting reports for the many minimization and mitigation measures in the plan, analyses, and contracts for KIUC, as needed.</p>
<p style="text-align: center;">Kaua‘i Island Utility Cooperative (KIUC)</p>  <p style="text-align: center;"><i>Nesting Newell's Shearwater</i></p>	<p style="text-align: center;">Complete</p>	<p>KIUC Save Our Shearwaters (SOS) Program Development & Implementation</p> <p>PSI first assembled and analyzed 25 years of data from the State of Hawai‘i’s SOS Program. It then prepared the first formal Program Manual to guide the program’s implementation. It has worked with the State, KIUC, and the program operator since 2006 to ensure sound implementation and reporting. The work includes assisting with the preparation of annual reports and manuals.</p>
<p style="text-align: center;">Haseko (‘Ewa), Inc.</p>  <p style="text-align: center;"><i>Hawaiian Stilts (Ae‘o)</i></p>	<p style="text-align: center;">Ongoing Monitoring</p>	<p>Avian Monitoring & Habitat Enhancement at Ocean Pointe</p> <p>PSI has helped monitor populations of the endangered Hawaiian Stilt (<i>Himantopus mexicanus knudseni</i>), Hawaiian Coot (<i>Fulica alai</i>), and Hawaiian Duck (<i>Anas wyvilliana</i>) on the Ocean Pointe property since 2000. In 2005, PSI assisted with the creation of a habitat “island” for Hawaiian Stilts in the Wetland Preservation Area on the west end of the property. The island provides protection from most predators and has become a favored locale for stilts and other birds. PSI also prepared educational materials for the construction workers at the site.</p>






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<p style="text-align: center;">Kaua'i Island Utility Cooperative</p>  <p style="text-align: center;"><i>Aerial View of North Shore of Kaua'i</i></p>	<p>Complete 2010</p>	<p>North Shore Reliability Enhancement Project</p> <p>PSI co-authored a preliminary engineering and environmental assessment to identify and evaluate improvements KIUC can pursue to improve electrical transmission service to its customers in the Princeville, Hanalei, and Kilauea area. The study identified alternative ways of meeting the project objectives that factored in cost, environmental & permitting considerations, and community concerns.</p>
<p style="text-align: center;">Haseko ('Ewa), Inc.</p>  <p style="text-align: center;"><i>Archaeological Preservation Areas (shown in red)</i></p>	<p>Completely 2015</p>	<p>Ocean Pointe Archaeological Preservation Plan Implementation</p> <p>PSI is working in concert with archaeologists to implement the measures called for in the Ocean Pointe Archaeological Preservation Plan that PSI helped develop. The plan outlines guidelines for the long-term protection and restoration of four archaeological site complexes on the Ocean Pointe property in 'Ewa Beach.</p>
<p style="text-align: center;">Haseko ('Ewa), Inc.</p>  <p style="text-align: center;"><i>Metabetaeus lohena & Halocaridina rubra</i></p>	<p>Ongoing Monitoring</p>	<p>Ocean Pointe Anchialine Pool Monitoring</p> <p>PSI is conducting a habitat monitoring program for anchialine pools at Ocean Pointe. The pools are host to two species of shrimp (see photo at left). The work includes monitoring of two man-made pools that host both species of interest. PSI regularly observes fauna in the pools, collects water samples for water quality determination, and evaluates the health of the habitat for these species.</p>







<i>CLIENT</i>	<i>STATUS</i>	<i>PROJECT DESCRIPTION</i>
<p style="text-align: center;">Hawai'i Electric Light Company, Inc.</p>  <p style="text-align: center;"><i>Alternative 1 overview</i></p>	<p style="text-align: center;">Complete 2018</p>	<p>North Kohala 69 kV Transmission Line Route Study</p> <p>PSI is performing a planning study that includes the identification and screening of alternatives to improve service to the North Kohala area. Five alternatives are being evaluated for their compatibility with land use and level of impact to resources in the region. The work also includes the development of a strategy for project permitting and approval.</p>
<p style="text-align: center;">Haseko ('Ewa), Inc.</p>  <p style="text-align: center;"><i>Updated Master Plan</i></p>	<p style="text-align: center;">Complete 2015</p>	<p>Hoakalei Master Plan Update Project</p> <p>PSI prepared an HEPA Environmental Impact Statement addressing the effects of implementing the Hoakalei Master Plan Update. The plan calls for the existing basin to be completed as a recreational lagoon rather than as a marina and adjusts the arrangement of land uses on the 245 acres around the basin accordingly.</p>
<p style="text-align: center;">Tetra Tech, Inc.</p>  <p style="text-align: center;"><i>Conceptual Alignment of the Proposed 46 kV Transmission Facilities</i></p>	<p style="text-align: center;">Complete 2015</p>	<p>Schofield Generating Station EIS</p> <p>PSI helped Tetra Tech, Inc. prepare the HEPA portion of a joint Federal/State EIS for the Army and Hawaiian Electric. The EIS is for the Army's proposed lease of 10.3 acres of land at Schofield Barracks and the subsequent construction and operation of a 50-megawatt (MW) biofuel-capable power generation plant and the electrical power transmission lines needed to integrate the power into the Company's island-wide electrical grid.</p>





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<p>Kaua'i Island Utility Cooperative (KIUC)</p> 	<p>Complete 2016 and 2010</p>	<p>KIUC Borrower's Environmental Report to the Rural Utilities Service (RUS)</p> <p>PSI prepared a Borrower's Environmental Report (BER) in accordance with federal Rural Utilities Service (RUS) regulations (7 CFR Part 1794). The report, which supports KIUC's loan application for its Construction Work Plan, addresses the potential environmental effects of each of the project categories. Covers NEPA, Section 7, and Section 106 for funding.</p>
<p>Anahola Homestead Community Development Corporation</p>  <p><i>View within camp with ocean in background</i></p>	<p>Complete 2015</p>	<p>Kumu Camp EA</p> <p>PSI prepared an EA for the camp. The work included detailed coordination with Department of Hawaiian Home Lands (DHHL), the land owner, and briefings for the DHHL board at multiple meetings. PSI also completed a cultural impact assessment (CIA) and consulted with the State Historic Preservation Division (SHPD) concerning historic resources and the potential for iwi in the project area.</p>
<p>Hawaiian Electric Company, Inc.</p>  <p><i>Kahe PV (artist rendering)</i></p>	<p>Complete 2014</p>	<p>Kahe Utility Scale Photovoltaic Project EA</p> <p>PSI prepared a HEPA EA with DPP as the approving authority for an 11.5 MW photo-voltaic facility including interconnections with the island-wide electrical grid through the existing substation at the Kahe Generating Station.</p> <p>The project also included a permitting strategy for a SMP Major and CUP Minor Modification.</p>






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<p style="text-align: center;">Kaua'i Island Utility Cooperative (KIUC)</p>  <p style="text-align: center;"><i>Typical Solar Array</i></p>	<p>Complete 2014</p>	<p>KIUC Anahola Utility Scale Solar Project EA</p> <p>PSI prepared a HEPA EA and the NEPA environmental report for a 12 MW solar photovoltaic on 50 acres of Department of Hawaiian Homelands property in Anahola, Kaua'i. The project includes an electrical substation providing a connection to the island-wide electrical grid and construction of a Transmission and Distribution service center and base yard.</p>
<p style="text-align: center;">State Parks, Department of Land and Natural Resources</p>  <p style="text-align: center;"><i>Kiholo Bay</i></p>	<p>Complete 2014</p>	<p>Kiholo State Park Reserve Master Plan and EA</p> <p>PSI assisted the State in developing a master plan and an environmental assessment for a 4,362-acre park which includes an 8-mile long wild coastline along the Kona Coast of the island of Hawai'i.</p>
<p style="text-align: center;">County of Kaua'i</p>  <p style="text-align: center;"><i>Hawaiian Petrel</i></p>	<p>Complete 2019</p>	<p>Kaua'i County KSHCP Application</p> <p>PSI assisted the County of Kaua'i over the course of many years in preparing its application to participate in the island-wide Kaua'i Seabird Habitat Conservation Plan (KSHCP). Permits based on the KSHCP will provide legal authorization for unavoidable incidental take of endangered and threatened seabirds due to light attraction/utilities and achieve net conservation benefits.</p>
<p style="text-align: center;">State Division of Aquatic Resources (DAR)</p>  <p style="text-align: center;"><i>Reef Fish Utilizing a Manmade Reef</i></p>	<p>Complete 2013</p>	<p>Keawakapu Artificial Reef Project</p> <p>PSI prepared the environmental assessment for the mitigation required for the inadvertent placement of DAR Z-Blocks on the Keawakapu Reef in December, 2009. PSI also provided an assessment of the modules and a proposed mitigation plan.</p>


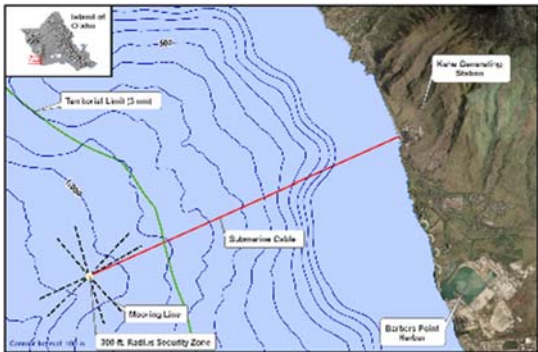
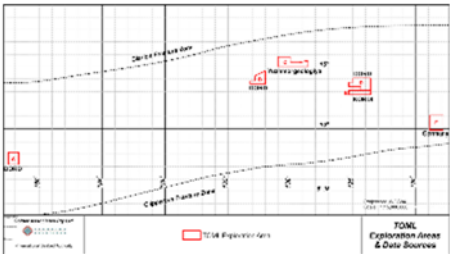


<i>CLIENT</i>	<i>STATUS</i>	<i>PROJECT DESCRIPTION</i>
<p>Hawai'i Electric Light Company, Inc.</p>  <p style="text-align: center;"><i>Puna Generating Station</i></p>	<p>Complete 2013</p>	<p>HELCO Puna Biomass Conversion Project</p> <p>PSI provided project management, determined approval requirements, and prepared a permitting analysis and strategy report for the fuel conversion of the existing steam boiler at HELCO's Puna Generating Station from heavy fuel oil to eucalyptus wood biomass.</p>
<p>Hawaiian Electric Company, Inc.</p>  <p style="text-align: center;"><i>Kahe Generating Station</i></p>	<p>Complete 2013</p>	<p>Kahe Generating Station 2011 Projects</p> <p>PSI prepared the environmental assessment, Special Management Area Permit application, and Conditional Use Permit application for several projects at the Kahe Generating Station. The projects included installation of three biofuel storage tanks; construction of a new weld/valve recertification shop; establishment of a new hazardous material storage area; realignment of an existing storm water berm; & installation of seven office trailers.</p>
<p>Confidential Client</p>	<p>(2012)</p>	<p>Solid Biofuels Delivery Options Assessment</p> <p>PSI evaluated the truck travel routes for the delivery of biomass from the harbor to the power plant storage area. The assessment included traveling proposed routes and using the field data and observations to provide qualitative estimates of level of service at key locations during selected peak-hour and off-peak periods.</p>



<i>CLIENT</i>	<i>STATUS</i>	<i>PROJECT DESCRIPTION</i>
<p>Kauai Lagoons</p>  <p><i>Kaua'i Lagoons Resort & Golf Course</i></p>	<p>(2012)</p>	<p>Kaua'i Lagoons HCP Environmental Assessment (NEPA) PSI prepared the NEPA EA for the Habitat Conservation Plan needed for additional development within the resort and golf complex at Kaua'i Lagoons.</p>
<p>Kaua'i Island Utility Cooperative (KIUC)</p>  <p><i>KIUC Upper Waiahi Powerhouse</i></p>	<p>(2012)</p>	<p>Environmental Reports for KIUC Hydro Projects PSI assisted KIUC in evaluating environmental conditions at the Upper Waiahi Powerhouse, Upper Waiahi Tailrace, and the Lower Waiahi Powerhouse. The work was related to possible applications for loan funds to replace, upgrade, and/or expand the hydropower facilities.</p>
<p>Hawaiian Electric Company, Inc.</p>  <p><i>Study Area</i></p>	<p>(2012)</p>	<p>HECO Fuel Infrastructure Project PSI provided project management, Chapter 343 environmental documentation, and permitting services in planning for the expansion and improvement of the fuel infrastructure under HECO's ownership and control.</p>



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<p>Kaua'i Island Utility Cooperative (KIUC)</p>  <p><i>Newell's Shearwater</i></p>	<p>(2012)</p>	<p>KIUC Short-Term Habitat Conservation Plan</p> <p>PSI prepared the HCP that led the USFWS to issue an incidental take permit for three species of threatened and endangered seabirds. The plan provides the framework for the multi-million dollar per year minimization and mitigation program that the utility is implementing.</p>
<p>Lockheed Martin Corporation</p>  <p><i>Potential Site for OTEC Plant Off West O'ahu</i></p>	<p>Complete 2012</p>	<p>Ocean Thermal Energy Conversion (OTEC)</p> <p>PSI helped Lockheed Martin develop a strategy for obtaining the environmental and other approvals needed to install and operate an OTEC facility in Hawaiian waters. The work included preparing presentation materials for use with stakeholder groups, meeting with regulatory agencies to identify approval requirements and processing procedures, and developing a detailed permitting schedule.</p>
<p>Nautilus Minerals, Inc.</p>  <p><i>Tonga Offshore Mining Ltd. Seabed Exploration Contract Areas</i></p>	<p>(2012)</p>	<p>Nautilus Minerals Resource Assessment</p> <p>PSI supported Nautilus Minerals, Inc. in the development of a formal mineral resource assessment of deposits of deep seabed manganese nodules in the northeastern tropical Pacific Ocean (Clarion-Clipperton Zone). Dr. Morgan served as a certified Qualified Person in the assessment effort, which resulted in the successful delineation of portions of the Tonga Offshore Mining Limited (TOML) claim area deposits as inferred resources for the purposes of reporting on the Toronto, Canada Stock Exchange.</p>

