

**REPORT TO THE TWENTY-SECOND LEGISLATURE
STATE OF HAWAII
2004**

**PURSUANT TO CHAPTERS 128D AND 128E, HAWAII REVISED STATUTES
REQUIRING THE DEPARTMENT OF HEALTH TO REPORT
ENVIRONMENTAL RESPONSE LAW AND HAWAII COMMUNITY RIGHT TO
KNOW ACT FINANCIAL AND ENVIRONMENTAL SITE INFORMATION
AND PURSUANT TO ACT 200, SESSION LAWS OF HAWAII, 2003,
TO REPORT THE REVENUES AND EXPENDITURES OF THE
ENVIRONMENTAL RESPONSE REVOLVING FUND FOR FISCAL YEAR 2003**

**PREPARED BY:
STATE OF HAWAII
DEPARTMENT OF HEALTH
DECEMBER 2003**

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ADMINISTRATION HAZARD EVALUATION AND EMERGENCY RESPONSE OFFICE
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**APPENDIX B FY 2003 DEPARTMENT OF HEALTH ENVIRONMENTAL HEALTH
ADMINISTRATION HAZARD EVALUATION AND EMERGENCY RESPONSE OFFICE
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GLOSSARY OF ABBREVIATIONS AND ACRONYMS

A	Addressed as part of an existing NPL site
ABW	Air Base Wing
ACE	Army Corps of Engineers
ADDS	Airborne Dispersant Delivery System
AFFES	Army Air Force Exchange System
AFS	Air Force Station
AOC	Area of Concern
ARPP	Accidental Release Prevention Program
As	Arsenic
AST	Above-ground Storage Tank
AVGAS	Aviation gas
AWQC	Ambient water quality criteria
BF	Brownfields
bgs	Below Ground Surface
BRAC	Base Closure and Realignment Commission
CA	Cooperative Agreement
CAA	Clean Air Act
CAB	Clean Air Branch
CCA	Copper Chromium Arsenate
CDC	Centers for Disease Control
CEPPO	(EPA) Chemical Emergency Preparedness and Prevention Office
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
CIC	Clean Islands Council
CIP	Campbell Industrial Park
CLEAN	Campbell Local Emergency Action Network
CNN	Cable News Network
COC	Contaminants of Concern
COE	Corps. of Engineers (United States Army)
CST	Civil Support Team
CWB	Clean Water Branch
D	Deferred to RCRA
D/DBPR	Disinfectant/Disinfection By-Products Rule
DAGS	Department of Accounting and General Services
DBEDT	Department of Business, Economic Development, and Tourism
DDT	Dichlorodiphenyl trichloroethane
DERP	Defense Environmental Restoration Program
DERP-FUDS	Defense Environmental Restoration Program Formerly Used Defense Sites
DIY	Do-It-Yourself

GLOSSARY OF ABBREVIATIONS AND ACRONYMS

DLNR	Department of Land and Natural Resources
DOD	Department of Defense
DOE	Department of Education
DOH	Department of Health
DPSA	Data Processing Systems Analyst
DS	Discovery
DS1	Discovery (Initial)
DS2	Discovery (Extended)
DSMOA	Department of Defense/State Memorandum of Agreement
EDR	Environmental Data Registry
EE/CA	Engineering Evaluation/Corrective Action
EHA	Environmental Health Administration
EHS	Environmental Health Specialist
EMD	Environmental Management Division
EPA	(United States) Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-To-Know Act
EPO	Environmental Planning Office
EP&R	Emergency Preparedness and Response (Section)
ERA	Environmental Response Agreement
ERRF	Environmental Response Revolving Fund
ES	Expanded Site Inspections
ES1	Expanded Site Inspections (Initial)
ES2	Expanded Site Inspections (Extended)
FAMIS	Financial Accounting Management Information System
FDA	(United States) Food and Drug Administration
FEMA	Federal Emergency Management Agency
FITS	Facility Identification Template for States
FOSC	Federal On-Scene Coordinator
FOST	Finding of Suitability for Transfer
FRS	Facility Registry System
FS	Feasibility Study
FUDS	Formerly Used Defense Sites
FY	Fiscal Year
G	Recommended for HRS Scoring
GAC	Granulated Activated Carbon
GIS	Geographic Information System
HAFB	Hickam Air Force Base
HAR	Hawaii Administrative Rule
HAZMAT	Hazardous Material
HCDA	Hawaii Community Development Authority
HCDCH	Housing and Community Development Corporation of Hawaii
HDOH	Hawaii Department of Health
HEER	Hazard Evaluation and Emergency Response (Office)0

GLOSSARY OF ABBREVIATIONS AND ACRONYMS

HEPCRA	Hawaii Emergency Planning and Community Right-To-Know Act
HERL	Hawaii's Environmental Response Law
Hg	Mercury
HIARNG	Hawaii Army National Guard
HMEP	Hazardous Materials Emergency Preparedness
HR	Hazard Ranking
HR1	Hazard Ranking (Initial)
HRS	Hawaii Revised Statute
HSERC	Hawaii State Emergency Response Commission
HTH	"Health" (used as a FAMIS designation)
ICS	Incident Command System
IDOP	Iwilei District Operating Partners
IDPP	Iwilei District Participating Partners
IESWTR	Interim Enhanced Surface Water Treatment Rule
IRA	Interim Remedial Action
IRP	Installation Restoration Program
ISST	Initial Site Screening Team
LAN/WAN	Local Area Network/Wide Area Network
LEPC	Local Emergency Planning Committee
LLC	Limited Liability Company
LOC	Letter of Completion
LTM	Long Term Monitoring
MAP	Statewide Management Action Plan
MBE/WBE	Minority Business Enterprises/Women's Business Enterprises
MOA	Memorandum of Agreement
MOU	Memorandum of Understanding
MPX	Multi-phase Extraction
NAS	Naval Air Station
NASTTPO	National Association of SARA Title Three Program Officials
NCP	National Contingency Plan
NCTAMS	Naval Computer and Telecommunications Area Master Station
NEX	Naval Exchange
NFA	No Further Action
NFRAP	No Further Response Actions Planned
NIOSH	National Institute for Occupational Safety and Health
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NPL	National Priority List
NRDA	Natural Resources Damage Assessment
NRTF	Naval Radio Transmitting Facility
NSA	National Security Agency
OPA	Oil Pollution Act
OPA 90	Oil Pollution Act of 1990

GLOSSARY OF ABBREVIATIONS AND ACRONYMS

OSC	On Scene Coordinator
OSHA	Occupational Health and Safety Administration
OU	Operable Unit
PA	Preliminary Assessment
PA/SI	Preliminary Assessment/Site Inspection
PA1	Preliminary Assessment (Initial)
PA1/SI1	Preliminary Assessment (Initial)/Site Inspection (Initial)
PAH	Polycyclic Aromatic Hydrocarbons; also, Polynuclear Aromatic Hydrocarbon
Pb	Lead
PCB	Polychlorinated biphenyls
PEL	Permissible Exposure Limit
PHIN	Public Health Information Network
PIO	Public Information Officer
POD	Pacific Ocean Division
POL	Petroleum Oil and Lubricant
PRC	Polluted Runoff Control
PRG	Preliminary Remedial Goals
PRP	Potential Responsible Parties
QMP	Quality Management Plan
RA	Remedial Assessment
RAB	Restoration Advisory Board
RAM	Remedial Action Memorandum
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
RMP	Risk Management Program
ROD	Record of Decision
RP	Responsible Party
RPM	Remedial Project Manager
SAP	Site Assessment and Prioritization; also, Sampling and Analysis Plan
SCP	State Contingency Plan
SDAR	Site Discovery, Assessment, and Remediation (Section)
SDWA	Safe Drinking Water Act
SDWB	Safe Drinking Water Branch
SERC	State Emergency Response Commission
SHWB	Solid and Hazardous Waste Branch
SI	Site Inspection
SI1	Site Inspection (Initial)
SI2	Site Inspection (Extended)
SLH	Session Laws of Hawaii
SOSC	State On Scene Coordinator
SOW	Statement of Work
SVOC	Semi-volatile Organic Compound

GLOSSARY OF ABBREVIATIONS AND ACRONYMS

SWTR	Surface Water Treatment Rule
TAMC	Tripler Army Medical Center
TCE	Trichloroethylene
TCP	Trichloropropane
TCRA	Time-Critical Removal Action
TGM	Technical Guidance Manual
TPH	Total Petroleum Hydrocarbons
TPH-D	Total Petroleum Hydrocarbons as diesel
TPH-O	Total Petroleum Hydrocarbons as oil
TSA	Targeted Site Assessment
UCS	Unified Command System
UIC	Underground Injection Control
USACE	United States Army Corps of Engineers
USAF	United States Air Force
USDW	Underground Sources of Drinking Water
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
UXO	Unexploded Ordinance
VCC	Video Conferencing Center
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compound
VOG, Vog	Volcanic Fog
VRP	Voluntary Response Program
WBE	Women's Business Enterprises
WIC	Women, Infants and Children (Services Branch of the Family Health Services Division)
WMD	Weapons of Mass Destruction

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EXECUTIVE SUMMARY

HAZARD EVALUATION AND EMERGENCY RESPONSE OFFICE FISCAL YEAR 2003 REPORT

This report, prepared by the State of Hawaii Department of Health (DOH), Environmental Health Administration (EHA), Hazard Evaluation and Emergency Response (HEER) Office, complies with the requirements of Chapters 128D and 128E, HRS, that require the DOH to prepare an annual report to the State Legislature. This report also complies with Act 200, SLH 2003 that requires the DOH to submit a report on all revenues and expenditures from the DOH Environmental Response Revolving Fund (ERRF) for State Fiscal Year (FY) 2003 (July 1, 2002 to June 30, 2003).

During FY 2003, five Environmental Health Administration (EHA) programs received ERRF funding. They are the Hazardous Evaluation and Emergency Response (HEER) Office, Solid and Hazardous Waste Branch (SHWB), Safe Drinking Water Branch (SDWB), Clean Water Branch (CWB), and the Environmental Management Division (EMD).

ERRF funding was also provided for two special environmental projects during FY 2003. Pursuant to Section 158 of Act 259, SLH 2001, Governor Lingle approved the transfer from the DOH ERRF to the Department of Land and Natural Resources (DLNR) for the Lake Wilson *Salvinia molesta* removal. Also, in FY 2003, a portion of the HEER Office ERRF funding was transferred to the Solid and Hazardous Waste Branch for the Mercury Reduction Project.

I. Annual Reporting Requirements

Chapter 128D, HRS, Environmental Response Law, requires the DOH to submit to the legislature an annual report to address the following:

1. An annual budget to implement remedial action plans requiring funding by the Environmental Response Revolving Fund (ERRF).
2. A listing to identify sites eligible for remedial action under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), including a statement as to any appropriation that may be necessary to pay the State's share of the plan.
3. The Department shall publish and revise, at least annually, a listing of the sites subject to Chapter 128D and any de minimus settlements made under this chapter.

The above requirement to provide an annual budget to implement remedial action is addressed in Section 4, **HEER Office Budget and Expenditures**, of this report. The above requirement to

address listed sites is presented in Section 3, State Priority List; Appendix A Environmental Health Administration Hazard Evaluation and Emergency Response Office Site List; and Appendix B, Environmental Health Administration Hazard Evaluation and Emergency Response Office Release Notification Log. There were no de minimus settlements during FY 2003.

Chapter 128E, HRS, Hawaii Emergency Planning and Community Right-To-Know Act (HEPCRA), requires that the DOH establish an account called the local emergency response planning committees' account within the ERRF for the purpose of administration and oversight of the Hawaii Emergency Planning and Community Right-To-Know Act (HEPCRA). An owner or operator of a facility that stores, uses, or manufactures any hazardous substance, or extremely hazardous substance, above defined thresholds is required under HEPCRA to file a notification of such activity and to pay a "Tier II" filing fee. The fees are collected at the HEER Office and deposited into the ERRF. The HEPCRA requires the DOH to submit to the legislature an annual report of the following:

The amount of Tier II filing fees collected annually for use by the Local Emergency Planning Committees (LEPCs) and deposited into the Environmental Response Revolving Fund (ERRF) during FY 2003, the amount collected to date for FY 2004 and the amount to be collected in FY 2005.

The above requirement is addressed in Section 2.1.2.2, Hawaii Emergency Planning and Community Right-To-Know Act Tier II Filing Fees.

Act 200, SLH 2003 Executive Budget, requires the DOH to submit a report on all revenues and expenditures from the Environmental Response Revolving Fund (ERRF) to the legislature no later than twenty days prior to the convening of the 2004 and 2005 regular sessions. The ERRF revenue, budget, and expenditures data is presented in Section 5, Environmental Response Revolving Fund Funding, Programs, and Projects.

II. Overview of HEER Office Functions and Activities

The Hazard Evaluation and Emergency Response (HEER) Office implements and maintains the environmental response programs for planning for, responding to, and preventing releases of hazardous substances into the environment, and protecting the natural resources of the State of Hawaii. The functions for the HEER Office are defined in Chapter 128D, HRS, Chapter 128E, HRS, The federal Comprehensive Environmental Response Compensation, and Liability Act (CERCLA), the Emergency Planning and Community Right-to-Know Act (EPCRA), and the Oil Pollution Act (OPA) of 1990. In general, the function of the HEER Office is to provide state leadership in addressing all aspects of releases of hazardous substances and/or petroleum into the environment. The office evaluates the actual or potential impacts such releases may have on the public, environment, and natural resources, and mitigates them as needed. This work includes preventing, planning for, assessment of, and responding to hazardous substance and oil releases, or risk of releases.

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The office works closely with State Civil Defense, first responders, and other federal, state, county, and local agencies to strengthen the state's ability to respond to public health and environmental health emergencies. The HEER Office also coordinates statewide planning activities to prepare for and respond to chemical and oil spills in the environment.

The office is comprised of three operating sections, each addressing an important aspect of its mission: 1) Emergency Preparedness and Response; 2) Site Discovery, Assessment and Remediation; and 3) Hazard Evaluation. The HEER Office is staffed with professionals able to conduct emergency response activities, formulate response plans, assess chemical risks, evaluate the extent of chemical contamination, and oversee removal and remediation activities.

The Emergency Preparedness and Response (EP&R) Section is responsible for planning and preparing for, and responding to hazardous substance releases which may cause an immediate and substantial threat to human health or the environment. The EP&R section's State On-Scene Coordinators (SOSCs) represent the State of Hawaii whenever there is an oil or hazardous material spill. They respond to and supervise any removal operations to eliminate chemical or oil threats that are deemed immediately dangerous to the public and the environment. The SOSCs are back-up personnel to the first responder HAZMAT teams. During FY 2003, the EP&R team was actively involved in emergency responder training exercises to meet requirements for readiness during chemical releases to the environment and weapons of mass destruction threats.

The Site Discovery, Assessment, and Remediation (SDAR) Section is responsible for assessing the relative near-term or long-term threat of sites contaminated with hazardous substances, and for the oversight and implementation of response actions at sites with suspected and confirmed releases of hazardous substances, including petroleum. Project oversight is provided to military facilities subject to the Department of Defense/State Memorandum of Agreement (DSMOA), state and county owned sites, and to civilian sites undergoing cleanup activities. The SDAR Section response and remedial work is performed by Remedial Project Managers (RPMs) assigned to the Preliminary Assessment/Site Inspection Program, State Response and Remedial Program, Voluntary Response Program, and Brownfields Program. During FY 2003, large projects of interest included the Honolulu Harbor cleanup project, and site inspection and sampling work performed at former sugar mill sites on Kauai, Oahu, Maui, and Hawaii.

The Hazard Evaluation Section is responsible for providing toxicological assistance to all programs in the Environmental Health Administration (EHA), as well as the public. It conducts toxicological assessments of chemical threats to human health, establishes appropriate cleanup level for chemical contamination, assists the public with information concerning the health effects of chemicals, and recommends site cleanup priority for workload purposes. During FY 2003 the Hazard Evaluation Section provided risk assessment support in public health studies such as the (volcanic fog) Vog Health Assessment and Fish Mercury studies. Ecological risk assessment support was provided to over fifty contaminated sites, the Solid and Hazardous Waste Branch (SHWB), Clean Water Branch (CWB), Environmental Planning Office (EPO), and the University of Hawaii. Contributions to several significant issues were addressed during the reporting period including issues surrounding the placement of dredge material from

the Ala Wai Canal onto the property controlled by the Honolulu Airport, and the Waipahu Incinerator and Landfill lead issues.

Funding to the HEER Office includes allocations in the State general fund budget, ERRF appropriated funds, and operating allocations for four federal grants. The combined total operating budget and expenditures for the HEER Office is presented in Section 4.

Details of the HEER Office FY 2003 activities are presented in Sections 1 and 2. Section 3 provides a list of sites listed on the U.S. EPA National Priority List, sites eligible for listing under CERCLA, sites managed under the Voluntary Response and Brownfields Programs, and military installations managed under the DSMOA Program. The Environmental Health Administration Hazard Evaluation and Emergency Response Office Site List of prioritized sites is found in Appendix A. The Environmental Health Administration Hazard Evaluation and Emergency Response Office Release Notification Log identifying emergency response actions for FY 2003 is found in Appendix B.

III. HEER Office Priority Areas for Program Improvements

During FY 2003, the HEER Office concentrated on further improving its programs and enhancing its capacities in the following priority areas:

- Improve enforcement of Chapters 128D and 128E, HRS.
- Improve emergency response preparedness.
- Improve oversight and response to contaminated sites.
- Develop and improve usage of the Voluntary Response and Brownfields Programs.
- Develop a Hawaii Chemical Accident Release Prevention Program.
- Improve office operations, policy and administration.

In FY 2004 the HEER Office will continue to improve in these areas and build its capacity to order, enforce, and oversee cleanups of contaminated sites and recover costs wherever possible. The complexity of many of the large and long term contamination clean up projects already underway will continue to depend upon people highly specialized in the areas of toxicology, risk assessment, and the environmental sciences. So far, the ability to recruit people who are specialized and experienced in these areas on a permanent basis has been difficult. The office has consequently limited the level of effort to primarily high-risk environmental issues.

HEER Office will also concentrate informational technology efforts to further enhance release and site database documentation capabilities. As the office develops capabilities for the office database to function within an Internet platform, the database capabilities will expand to sharing geographically defined environmental site information.

The HEER Office ecological and human health risk assessment project collaborations with other Environmental Health Administration (EHA) programs and community groups has shown that

EXECUTIVE SUMMARY

analysis of the impact of environmental contaminants on human health is a required area for capabilities development. The office will be defining ways to enhance these data analysis capabilities.

Starting in FY 2004 the U.S. Environmental Protection Agency will begin shifting the focus of the federal site cleanup grants from the Superfund grant program to the State Response Program grant. The EPA State Response Program grant will be emphasizing the use of funding for cleaning up Hawaii's Voluntary Response Program and Brownfields Redevelopment Program sites.

The HEER Office will continue to work with the Department of Business, Economic Development, and Tourism (DBEDT) and Department of Land and Natural Resources (DLNR) to define potential Brownfields sites, and also encourage greater public agency and private interest utilization of incentive programs such as the State Voluntary Response Program and the Brownfields' program in order to return contaminated properties to productive economic use.

Another major challenge ahead will be keeping up with rapidly changing threats in the area of terrorism and weapons of mass destruction. This challenge will be met in opportunities for the Emergency Preparedness and Response (EP&R) and Hazard Evaluation staff to participate in workshops and training exercises designed for the emergency responder and threat analysis community.

Finally, the HEER Office continues to be concerned that appropriate funds may not be available in the Emergency Response Revolving Fund (ERRF) in the event of a major chemical or petroleum release. The ERRF receives funds from court settlements, fines, penalties, and revenues from the five cents per barrel tax on imported petroleum products sold in the state. The original purpose and a prime continuing purpose of the ERRF is to have immediate sufficient fiscal resources available without utilizing or depending on the general fund for chemical and petroleum related emergency and long-term remediation activities. In recent years, ERRF funds have been used to balance the budget and looked at as a possible source of funding for other environmental projects. If adequate ERRF funds are not available to respond to and clean up a major chemical or petroleum spill, the Department of Health may have to seek after-the-fact general funds through a special appropriation to the legislature. This would defeat the purpose to which the ERRF was originally established.

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1 THE HEER OFFICE

1.1 Authorities

The HEER Office operates under various environmental authorities. The primary state enabling legislation is Chapter 128D, HRS, "Environmental Response Law" or commonly referred to as Hawaii's Environmental Response Law (HERL) and Chapter 128E, HRS, "Hawaii Emergency Planning and Community Right-to-Know Act" (HEPCRA). HERL is modeled after the federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), and HEPCRA is modeled after the federal Emergency Planning and Community Right-To-Know Act (EPCRA). However, unlike CERCLA, HERL defines hazardous substances to include oil. For oil spill planning, preparedness and response, the HEER Office becomes involved under the authority of the Oil Pollution Act of 1990 (OPA 90). The following tables list the legal authorities under which the HEER Office operates.

STATE LAWS/RULES (Hawaii Revised Statutes – HRS)

STATE LAW Hawaii Revised Statutes (HRS)	STATE REGULATIONS Hawaii Administrative Rules (HAR)
Chapter 128D, HRS "Hawaii Environmental Response Law" (HERL)	Title 11, Chapter 451, HAR "State Contingency Plan" (SCP)
Chapter 321, HRS "Department of Health"	Title 11, Chapter 5, HAR "Environmentally-Related Illness and Injury"
Chapter 128E, HRS "Hawaii Emergency Planning and Community Right-to-Know Act" (HEPCRA)	

FEDERAL LAWS (Code of Federal Regulations – CFR)

FEDERAL LAW National Code of Federal Register (CFR)	FEDERAL REGULATIONS National Contingency Plan (NCP)
Comprehensive Environmental Response, Compensation & Liability Act (CERCLA), 40 CFR	40 CFR, Part 300, "National Contingency Plan" (NCP)
Emergency Planning and Community Right-to Know Act, (EPCRA), 40 CFR	40 CFR, Part 302, "National Contingency Plan" (NCP)
Clean Air Act (CAA), Section 112(r) "Risk Management Program" (RMP)	40 CFR, Part 302, "National Contingency Plan" (NCP)
40 CFR, Part 300, "Oil Pollution Act of 1990" (OPA 90)	40 CFR, Part 300, "National Contingency Plan" (NCP)

1.2 Program Mission and Objectives

1.2.1 Mission

To protect human health, public welfare, and the environment through enforcing environmental laws, and to provide state leadership, support and partnership in preventing, planning for, responding to, eliminating, and mitigating releases or threats of releases of hazardous substances, pollutants, or contaminants including oil.

Specific program actions are:

1. Prepare for and respond in a timely and effective manner to releases of hazardous substances and oil into the environment.
2. Prepare and respond to all media related (air, land and water) releases, including non-routine state working hours (off-hours).
3. Locate, investigate, and assist in the cleanup of lands with prior releases of hazardous substances, pollutants or contaminants.
4. Prevent harmful releases of oil and hazardous substances into the environment.
5. Evaluate the risks associated with releases of chemicals into the environment and other environmental risks to public health and the ecosystem.

1.2.2 Objectives

The following are the HEER office objectives:

Objective A: Environmental Release Response

- A-1: Improve the preparedness of federal, state, and local entities to respond to releases of petroleum and hazardous materials into the environment utilizing risk-based management principles and effective partnerships.
- A-2: Integrate the Department of Health's response and cleanup programs utilizing risk-based management principles and effective partnerships.
- A-3: Enhance and improve capabilities to identify and assess hazardous substance and petroleum-contaminated sites.
- A-4: Enhance and improve capabilities to clean up hazardous and petroleum waste sites.

Objective B: Environmental Contamination Prevention

- B-1: Implement an oil spill prevention program in Hawaii.
- B-2: Implement a Pipeline Safety Program.
- B-3: Implement a Clean Air Act (CAA) Section 112(r) Risk Management Program.
- B-4: Implement a Hawaii Emergency Planning and Community Right-to-Know Act (HEPCRA) Inspection Program.

Objective C: Statewide Risk Assessment Support

- C-1: Maintain an ongoing core of qualified environmental technical experts.

1.3 Operating Plan

During FY 2003, the HEER Office concentrated on improving its oversight and response capabilities, such as to the area-wide contamination in the Honolulu Harbor area. The FY 2003 Operating Plan priorities were:

- Improve enforcement of Chapters 128D and 128E, HRS.
- Improve emergency response preparedness.
- Improve oversight and response to contaminated sites.
- Develop and improve usage of the Voluntary Response Program (VRP) and Brownfields Programs.
- Improve office operations, policy and administration.
- Develop a Hawaii Chemical Accident Release Prevention Program.

1.4 Notable Accomplishments by Priorities

1.4.1 Improve Enforcement of Chapters 128D and 128E, HRS

Legal Support/Enforcement

A fully funded Deputy Attorney General continued to spend two days a week at the HEER Office. Legal support was solicited by the HEER Office to provide staff with assistance and legal resources regarding investigation, enforcement, response, and cost recovery activities resulting from the accidental and/or intentional releases of hazardous chemicals, including oil and various petroleum constituents. Upon request, the Deputy Attorney General scheduled consultations with HEER staff to discuss overall and site-specific legal issues.

Issues of concern to the HEER Office related to cost recovery for expenditures from the ERRF include:

- Cost recovery during enforcement.
- Recovering expended response funds from the responsible parties.
- Issues concerning closure of federal facilities.
- State agencies as responsible parties.
- Transfer of closed federal facilities to other state agencies.
- Brownfields redevelopment of State lands.
- Voluntary Response Program.
- Cleaning up State priority listed sites.

The Deputy Attorney General also supported the HEER staff in FY 2003 by providing consultation, discussion and/or resolve to issues regarding:

Advice and/or counsel regarding legislation, procurement, subpoena, order, contract, agreement, memorandum of agreement (MOA), settlement, lawsuit, cost recovery, property access, record review, confidential material, natural resource damage assessment, rehabilitation and recovery, and emergency response and remedial activities.

Finally, the Deputy Attorney General provided support to the State On-Scene Coordinators and remedial staff on issues specific to priority sites, in particular, the negotiations on the cleanup of Honolulu Harbor.

The initial Honolulu Harbor agreement included coordinating fifteen organizations with approximately thirty representatives, including the major oil companies and the State Department of Transportation that are operating or were operating in the Honolulu Harbor area-wide contamination site. A second agreement was developed and executed for the current Iwilei operating companies to provide the State and EPA with assurance that no further releases are occurring and a prevention program is in place to prevent any additional contamination in the area.

1.4.2 Improve Emergency Response Preparedness

Preparedness training for emergency response actions is a vital community effort involving federal, state, and local agencies and commissions, and private industry. The Emergency Preparedness and Response (EP&R) Section of the HEER Office, in partnership with the U.S. Coast Guard, EPA, and industry, continued to play an active role in designing, planning, and conducting a wide range of oil and hazardous materials (HAZMAT) training and preparedness training exercises for emergency response actions.

A State On Scene Coordinator (SOSC) is assigned as a Duty Officer and takes calls after hours, on weekends, and holidays to ensure 24-hour coverage of incidents occurring around the state. Many times, SOSC's are dispatched to public complaints before the involvement of other

responding agencies. This may lead to referrals internal to DOH agencies such as the Clean Air, Clean Water, and Solid and Hazardous Waste Branches. Referrals may also be made to county, state, and federal agencies including Civil Defense, Homeland Security, Police Vice and Criminal Divisions, State Agriculture, Department of Land and Natural Resources, the Attorney General office, Food and Drug Administration, Occupational Health and Safety Administration, U.S. Coast Guard, U.S. Customs, and the U.S. Postal Service.

HEER Office SOSCs have continued their involvement with a task force under the lead of the US Attorneys office and EPA Criminal Investigation Division by providing information and support for investigations, particularly when intentional releases of hazardous substances are perpetrated as a means of disposal. Many referrals involve criminal issues including fugitive dumping and releases, illegal drugs, clandestine drug laboratories (clan labs), illegal importations and distribution, fraud, and misapplications and misuse of chemicals and pesticides. Requests for incidence assistance from local responders may also involve additional investigation by SOSCs to locate responsible parties for civil and criminal action.

During FY 2003 the EP&R Section continued to develop expertise by participating in exercises and various task forces in the areas identified in the following list. Details of the HEER Office FY 2003 emergency preparedness exercises and activities can be found in Section 2.1.

- Chemical and Bio-Terrorism
- Pollution Exercise Participation
- Campbell Local Emergency Action Network (CLEAN)
- Airborne Dispersant Delivery System (ADDS)
- Hawaii Pipeline Corrosion Control Coordinating Committee
- Four Counties' Used Oil Collection Programs
- Environmental Crimes Task Force
- Oiled Wildlife Response Program

The HEER Office Emergency Preparedness and Response Section also provides the State Emergency Response Commission (SERC) with administrative support, and Local Emergency Planning Committee's (LEPCs) (Hawaii, Oahu, Kauai, and Maui) with technical assistance. The SERC is chaired by the DOH Deputy Director for Environmental Health to establish policy for statewide emergency response, review Local Emergency Planning Committee's (LEPC) Emergency Response Plans, and develop statewide response plans.

1.4.3 Improve Oversight and Response to Contaminated Sites

Oversight

During FY 2003 a considerable amount of the Site Discovery, Assessment, and Remediation (SDAR) Section effort focused on DOH policy and planning for the HEER Office programs. Budgets and project efforts were reviewed and developed for Defense State Memorandum Of Agreement (DSMOA), Formerly Utilized Defense Sites (FUDS), Preliminary Assessment/Site Inspection (PA/SI), Voluntary Response Program, and Brownfields projects.

A very high degree of success was achieved in the Voluntary Response Program (VRP), the Brownfields projects and the PA/SI Team. New hires in the VRP made a significant difference in comprehensive planning and managing the available funds that resulted in several significant successes. The successes of the VRP and the Brownfields projects are exemplary for achievement of goals with additional qualified staff. Projects with private owners as well as other Hawaii state agencies were successful in moving contaminated sites from idle land to properties that are being developed and re-entered into the tax base. The PA/SI effort continues to effectively identify, rank, and evaluate Hawaii sites that could potentially present a risk with regard to on-site contamination. Coordination with EPA Region 9 and Hawaii property owners have also successively addressed contaminated soils at several sugar mills that are no longer in operation.

Efforts to address the work load in the SDAR include an effort in developing relationships with local non-profit agencies and Universities to identify students that might serve internships with DOH. To supplement current staffing levels, the HEER Office has contracted with technical support contractors for environmental investigation document review and data interpretation. In one instance, the HEER Office reached an agreement with other agencies such as the National Oceanic Atmospheric Administration (NOAA) to collaborate with the HEER Office to enhance the HEER Office database capabilities.

The FUDS Program has taken a renewed interest resulting in a higher level of activity between the DOH, EPA, and the U.S. Army Corps. of Engineers (COE). Oversight for the evaluation of sites in Hawaii will include the active participation of the review of documents produced by the COE for the evaluation of cleanup of the FUDS in Hawaii.

Response Contracts

Chapter 128D, Hawaii Environmental Response Law (HERL), of the Hawaii Revised Statutes (HRS), specifically mandates the Department of Health (DOH) to undertake response actions whenever any hazardous substance, pollutant and/or contaminant, including oil, are released or there is a substantial threat of a release into the environment that may present a substantial threat to the public health, and welfare, or to the environment. To assist in the implementation of the requirements of Chapter 128D, HERL, Hazard Evaluation and Emergency Response (HEER) Office solicited the qualifications of several environmental companies. After an extensive evaluation, three companies were selected in FY 2002.

A time-critical emergency environmental response contract was awarded to the Pacific Environmental Corporation (PENCO) and the non-emergency environmental response contracts were awarded to AMEC Earth & Environmental, Inc. and to The Environmental Company, Inc (TEC). Both AMEC and TEC have been tasked, using contracts, for the review of documents pertaining to new and former releases as well as to address questions of overall risk at high visibility sites under investigation.

1.4.4 Develop and Improve Usage of the Voluntary Response and Brownfields Programs

1.4.4.1 Voluntary Response Program (VRP)

Hawaii's Voluntary Response Program (VRP) was established by statute in 1997 (Chapter 128D, Part II, HRS). The VRP encourages voluntary cleanup of contaminated properties. Under the law, DOH has the authority to grant prospective purchasers or developers an exemption from future liability if cleanup is performed to DOH specifications under the program. Past, current, or future property owners can participate in this program, but exemptions from liability can only be given to future purchasers or tenants. Completion of the voluntary cleanup action is accompanied by a Letter of Completion, issued by the DOH, and noted on the property deed. Over the past year, Letters of Completion have been issued to Castle and Cooke, Ross Trust, and Aiea Sugar Mill.

With regard to resources, the program added two new members in May and June bringing the total VRP staff to three. With these new staff members, the program has been able to increase the overall capacity for new projects. Program development and outreach efforts have been increased and the number of VRP sites was increased from eleven to thirteen projects, with more applications expected as the State's economic outlook improves.

1.4.4.2 Brownfields (BF) Program

In 2001, the Department of Business, Economic Development and Tourism (DBEDT), with the assistance of the Department of Health, began the implementation of a Brownfields (BF) Pilot Assessment grant of \$200,000 from EPA. This project developed an inventory of potential Brownfields sites that are owned by state and county agencies, including redevelopment agencies. Stakeholder agencies and community organizations have been involved in prioritizing these sites and have identified the top six sites which will be eligible to receive environmental site assessment in FY 2002/2003 with available grant funds. The group further prioritized the top twenty-five sites that could receive assessments and possibly, cleanup funds in the future. This grant is administered and coordinated by DBEDT, and the HEER Office provides technical support by conducting the targeted environmental site assessments. During FY 2003, the HEER Office continued focusing on the promotion and coordination of a comprehensive Hawaii State Brownfields Initiative in coordination with EPA Region IX and DBEDT.

The HEER Office has been assisting DBEDT with its work under a U.S. Environmental Protection Agency (USEPA) Brownfields Pilot Demonstration Grant by conducting three environmental site assessments at high priority state-owned Brownfields properties. The projects are for: 1) a mixed-use development in Anahola, Kauai, 2) a senior residential project by Housing and Community Development Corporation of Hawaii (HCDCH) in Iwilei, and 3) a potential re-development at the HCDCH Kuhio Park Terrace housing complex.

1.4.5 Improve Office Operations, Policy and Administration

1.4.5.1 Management

The HEER Office Manager encourages the section supervisors to be self-directed. This allows the section supervisors to focus their efforts precisely on their respective areas of responsibility. Overall office policies and procedures foster integration and cooperation among sections as well as other department offices.

1.4.5.2 2003 Legislative Session

During FY 2003, the HEER Office did not have any legislation passed by the 2002 Legislature to implement.

During the 2003 Legislature (January-May 2003), the HEER Office tracked the following legislation until their enactment:

- HCR 182, HD1, Requesting the Departments of Labor and Industrial Relations and Health to Conduct a Study Relating to the Occupational and Health Risks of County Refuse Collection Workers.

Requesting the Department of Labor and Industrial Relations and the Department of Health to conduct a study relating to the occupational and health risks of county refuse collection workers, and to compare the occupational risks associated with county refuse collection workers with those of other county occupations including firefighters and police officers, and finally to recommend whether county refuse collection workers should enjoy the same retirement preferences as those other county occupations.

- G.M. 381, Advisory Committee on Pesticides

Proposed the appointment of Dr. Barbara A. Brooks, PhD, to the Advisory Committee on Pesticides, for a term to expire 6/30/07. Dr. Brooks is a toxicologist working in the Hazard Evaluation and Emergency Response Office of the Department of Health.

- Act 200, SLH 2003, State Budget

Section 18 of the State Budget provided that the Environmental Health Administration (HTH 849), shall submit a report on all revenues and expenditures from the Environmental Response Revolving Fund; provided further that this report shall be submitted to the legislature no later than twenty days prior to the convening of the 2004 and 2005 regular sessions.

The office also, tracked the unsuccessful attempt by the Environmental Health Administration to establish and fund an Environmental Information Specialist position. The information specialist was needed to assist the Department of Health's Public Information Officer (PIO) and to allow the PIO to have a more effective presence in environmental incidences and matters.

1.4.5.3 Planning Section

The Planning Section is involved in many diverse office operations and serves to support the entire office with long-term planning, program development, financial, data management, logistical, and legislative expertise. The planning section maintains personnel with both practical and scientific educational backgrounds. Office-wide planning, program development and data management are foremost in this section's support of office operations. Staff working in this section, play an important role serving office-wide in the coordination and support of the legal, administrative, legislative, and technical documentations necessary for implementation of Chapter 128D, Environmental Response Law and other related mandates. Documents generated and/or coordinated through the Planning Section in FY 2003 include:

- The 2003 Annual Report to the Legislature to comply with Chapters 128D and 128E.
- The Federal Combined Superfund Grant.
- The federally funded State Response Program Grant.
- Status and financial reporting for the four programs receiving federal funds through the Combined Superfund Grant.
- Reporting of HEER Office purchases from Hawaii's minority owned and/or women owned Business Enterprises.
- The HEER Office Annual Expenditure Plan; and
- Updates to the HEER Strategic Plans.

A major goal of the Planning Section is to assist the other sections, and to have in place regulations, policies, guidelines and procedures for responding to releases of hazardous substances, pollutants or contaminants.

The Planning section is responsible for identifying resource and training needs to ensure that all HEER staff has the capabilities to function in the protection of human health and the environment.

1.4.5.4 Data Management

The Hazard Evaluation and Emergency Response (HEER) Office maintains three major categories of information in its consolidated database:

- Site List – Records of State Superfund cleanup sites; and
- Releases – Records of the chemical spills reported;
- HEP CRA– Records of chemical facilities reporting under the Hawaii Emergency Planning and Community Right-to-Know Act (HEPCRA).

This data is maintained in a Microsoft Access database on the Environmental Health Administration's local area network (LAN). Each record in the database corresponds to a physical file. The database is used routinely for file retrieval. In addition, the database is used

in tracking workflow throughout the office, in particular contaminated site handoff between separate HEER Office sections.

Data Integration

The HEER Office physical site files containing HEPCRA, Site List, and Release information have been reconciled with the consolidated index (with the exception of Military sites). The consolidated index conforms to Facility Identification Template for States (FITS), One-Stop, Facility Registry System (FRS), and the Environmental Data Registry (EDR). This index forms the basis for integrating HEER records with related records in the Solid and Hazardous Waste Branch, a current project for FY 2003. As part of the data reconciliation effort, HEER posted their records to the EPA's FRS website. Now anyone checking the federal website for information about a Facility/Site will see an indication if the State of Hawaii has additional information regarding that site.

Data Quality

The HEER Office continues to increase the precision with which we define sites within our office. We have crosschecked, standardized and added to geographic identifiers for those sites. In consolidating separate categories of information for a site at a well-defined location, we have added value to those records, making it easier to visualize the history and status of the site and to make comparisons to and links with other data layers. The HEER Office complies with the requirements and protocols for data quality, work processes, and computer hardware and software as defined by the Draft Environmental Health Administration (EHA) Quality Management Plan (QMP).

Site List Database Development

The HEER database is now used to track site status within the HEER Office. This additional capability is being used to allocate personnel resources.

Website Capability

An ongoing challenge is the expansion of website capabilities. We are developing the HEER database to function within an Internet platform. This will give the HEER Office the ability to exchange information and technology worldwide. The database in an Internet platform will lend itself well to sharing geographic information.

1.4.6 Develop a Chemical Accident Release Prevention Program

The State of Hawaii through the Hazardous Evaluation & Emergency Response Office has taken on the responsibility of obtaining delegation from EPA to implement the Clean Air Act, Section 112(r), Accidental Release Prevention Program (ARPP). The focus of the ARPP is prevention and preparedness through the detection and prevention of accidental releases of hazardous chemicals into the ambient air that could cause harm to the public and the environment. Risk management plans (RMPs) are prepared by facilities regulated under this program and form the basis for preparedness and prevention of accidental releases.

During FY 2001, an environmental health specialist was hired into the Risk Management Program (RMP) Coordinator position that was created by the 1999 Legislature. In FY 2002 the State Deputy Attorney General supporting the program ruled that the RMP Coordinator may not do any field inspections without specific legal authorization. In order to satisfy this requirement, the RMP Coordinator has been working with the EPA to define a Memorandum of Understanding (MOU) and authorization agreement. EPA approval of the MOU, authorization agreement, and letter certification of authority to perform RMP inspection activities is pending.

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2 FY 2003 HEER OFFICE ACTIVITIES

The Hazardous Evaluation and Emergency Response (HEER) Office serves the people of the State of Hawaii by addressing all aspects of releases of hazardous substances including oil into the environment. Our work includes preventing, planning for, and responding to hazardous substance releases or risks of releases. The HEER Office accomplishes this mission by addressing contaminated sites with the highest risk to human health and the environment first, preventing contamination rather than cleaning up after the fact, and basing decisions on sound scientific principles and common sense.

The office is comprised of three operating sections, each addressing an important aspect of its mission. The implementing sections are organized as follows: 1) Emergency Preparedness and Response; 2) Site Discovery, Assessment and Remediation; and 3) Hazard Evaluation.

2.1 Emergency Preparedness and Response

The HEER Office Emergency Preparedness and Response (EP&R) Section is responsible for planning and preparing for, and responding to hazardous substance releases which may cause an immediate and substantial threat to human health or the environment. An overview of the significant HEER Office preparedness and response activities is presented in the following sections.

2.1.1 Emergency Preparedness Activities

The EP&R Section developed expertise and participated in training exercises and various task forces in partnership with the U.S. Coast Guard, EPA, and industry. Additionally, EP&R Section continues to play an active role in designing, planning, and conducting a wide range of oil and hazardous materials (HAZMAT) training and preparedness training exercises for emergency response actions.

2.1.1.1 Pollution Exercise Participation

In FY 2003, the DOH continued to play an active role in designing, planning, and conducting a wide range of oil and hazardous materials (HAZMAT) training exercises modeled after the nationally recognized Incident Command System (ICS) objectives. The ICS is recognized nationally and is the directive used in all response efforts. In Hawaii, the ICS protocol is used to establish a Unified Command System (UCS). The UCS brings the DOH, U.S. Coast Guard, and representatives of the Responsible Party together for emergency response actions. The UCS is the ICS national response directive for the State and enables effective USC decision-making to serve the particular best interests of each participating party.

In the UCS, either the U.S. Coast Guard Captain of Port, or an Environmental Protection Agency (EPA) OSC is the designated Federal On-Scene Coordinator (FOSC) by presidential directive, and can thereby provide the State with Federal monetary and technical resources necessary for oil related or hazardous substance related emergencies of national priority.

The State DOH works hand-in-hand with the FOSC once a Unified Command System (UCS) has been initiated. The State On-Scene Coordinators (SOSCs) are instrumental in making determinations necessary to address priority issues concerning the State of Hawaii. There are four designated SOSCs in the State of Hawaii, employed by the DOH and staffed within the HEER Office.

The SOSCs represent the State under the directive of the Governor of the State of Hawaii. Under the UCS, the SOSCs are responsible for bringing about or initiating measures that provide the best State resources and manpower available at any moment to respond to the release of hazardous chemicals, including oil and its constituents. The SOSCs have the authority to act on behalf of the State for the Governor as mandated in Chapter 128D (Environmental Response Law) to bring about expedient and effective response to protect human health and the environment.

In FY 2003, SOSCs participated in tabletop and deployment exercises conducted by CHEVRON, TESORO, TOSCO and HECO. These exercises test and challenge the capabilities of all participating responders in the State and are the basis by which the Incident Command System operates.

The DOH, in partnership with the U.S. Coast Guard, EPA, and industry, held regular training and workshops on response operations throughout the year. Many of these exercises were used to evaluate the response capabilities of other important response agencies in the State such as the police and fire departments, County HAZMAT, and the Civil Defense. The preparedness for emergency response to oil or chemical releases is tested and improvements to plans and equipment are made based on these exercises.

2.1.1.2 Campbell Local Emergency Action Network (CLEAN)

The Campbell Local Emergency Action Network (CLEAN) was developed in 1997 by businesses in the James Campbell Industrial Park (CIP) to address emergency planning issues, including public health and safety, for the CIP and surrounding community. The DOH HEER Office has participated in this effort and is highly supportive of their activities. An Emergency Management Plan for the CIP currently in use provides guidance and information to emergency response personnel, local residents, and businesses based on local conditions and specific CIP hazards. Community involvement has been present throughout the planning process. A special task force has been working to improve the overall effectiveness of the warning /notification system, to achieve increased public awareness and protection in and around CIP, and to provide public education on appropriate responses to the warning-notification in the event of an emergency. CLEAN has procured Sentinel Alert Radios for CIP and public facilities, including schools in the area to enhance notification of a chemical release. This year, the CLEAN organization was active in community outreach and participated in the Makakilo Emergency Preparedness Fair. During FY 2003 a key project was working with the State Department of Education (DOE) to provide "Shelter In Place" training and upgrade school communications for Public Schools in the area.

2.1.1.3 Airborne Dispersant Delivery System (ADDS)

In April 1999, Governor Cayetano signed a Memorandum of Agreement (MOA) with Rear Admiral J.J. McClelland, Commander of the Coast Guard's Fourteenth District and with the Clean Islands Council (oil industry spill response co-op). Under the MOA, the Coast Guard will use one of its four C-130 aircraft at Barbers Point Air Station to fly the State owned Airborne Dispersant Delivery System (ADDS) to a spill site for usage. The Clean Islands Council (CIC) maintains the ADDS and trains personnel for immediate use of the system in the event of an oil spill. This oil spill response capability allows the State and the Coast Guard to utilize chemical dispersant to fight offshore oil spills. The ability to use chemical dispersant greatly enhances the State's oil spill response capability for combating oil spills in the Hawaiian Island chain, including locations distant from Honolulu. It is critical that this capability is made available immediately after an oil spill occurs to be most effective in keeping the oil from reaching Hawaii's beaches. Dependency on mainland aircraft would delay operations for several days.

The State purchased the ADDS with funds from the Environmental Response Revolving Fund. The Coast Guard, HEER Office, and Clean Islands Council (CIC) execute an airborne dispersant delivery system drill, annually. This partnership is an added deterrent against the devastating impact that a large oil spill could have on Hawaii. The value of having a Dispersant capability available was demonstrated when a release occurred at the TESORO Single Point Mooring. Dispersant was applied and prevented the slick from potentially impacting the shores of Kauai, as occurred with previous spills.

During FY 2003 the ADDS trailer was upgraded to provide for a over-the-road capability. This will reduce the time required to load the aircraft.

2.1.1.4 Hawaii Pipeline Corrosion Control Coordinating Committee

This Hawaii Pipeline Corrosion Control Coordinating Committee was formed within the DOH for administrative purposes for two years in compliance with Act 148, SLH 1997. Act 148 SLH 1997 was to sunset on June 30, 1999; however, the pipeline operators continue to meet quarterly to promote pipeline safety. A depository for pipeline maps has been established with the intention that the information be placed into the planned Environmental (GIS). The committee acts as a forum to share information and technology. A database has been generated to facilitate cathodic protection testing and interference mitigation of pipelines.

Note: The State Department of Transportation's Office of Pipeline Safety provided training for pipeline operators.

2.1.1.5 Four Counties' Used Oil Collection Programs

The HEER Office budgeted \$200,000 in FY 2003 for the DOH's Solid and Hazardous Waste Branch (SHWB) Hazardous Waste Section to use for waste oil and hazardous waste education and outreach and to provide the four counties with funds for their Residential "Do It Yourself" Used Oil collection programs. These funds cover a portion of the cost for the operation of the collection centers on the neighbor islands and the provision of "Oil Eater Boxes" to residents on

Oahu. Technical guidance on the best management practices regarding used motor oil is also provided to recreational boaters and other small generators as part of the SHWB Hazardous Waste Section program.

2.1.1.6 Chemical and Bio-Terrorism

The increasing concern for acts of terrorism have required more involvement and coordination of effort by the State SOSCs with County HAZMAT units, and other state and federal agencies. Training with HAZMAT and the Civil Support Team (CST) of the State Department of Defense along with the State DOH Laboratory Division and University of Hawaii Laboratory is strengthening our capability to deal with acts of terrorism.

2.1.1.7 Environmental Crimes Task Force

The HEER Office State On-Scene Coordinators (SOSCs) have continued their role with the task force under the lead of the US Attorneys office and EPA Criminal Investigation Division. The EPA has hired a local person to be the Honolulu Resident Agent. The SOSCs continue to provide information and support for investigations, particularly when intentional releases of hazardous substances are perpetrated as a means of disposal. Several of these criminal releases have cross-jurisdictional issues with Federal facilities. The HEER Office laboratory contract for rapid identification of unknown chemicals not only aids in emergency response but also in determining if a crime has been committed. A current project underway at the HEER Office is intended to link the laboratory and investigator resources in a network, both for environmental crime use and for Weapons of Mass Destruction (WMD), and clandestine drug lab activities.

2.1.1.8 Oiled Wildlife Response Program

The purpose of having an Oiled Wildlife Response Program is to provide rehabilitation for wildlife harmed by an oil release. The HEER Office continued to support preparedness efforts for the protection of wildlife in the event of an oil spill. The Department of Land and Natural Resources (DLNR) was authorized \$75,000 funding from the Environmental Response Revolving Fund (ERRF) for a veterinarian to manage a wildlife response and to conduct necessary rehabilitation projects. Each year, additional equipment is obtained for a portable response facility. Training is conducted annually for personnel in wildlife capture, cleaning, and recovery.

2.1.2 Hawaii Emergency Planning and Community Right-To-Know Act (HEPCRA)

Under SARA Title III Section 301(a), Establishment of State Emergency Response Commissions, the Governor appoints the Hawaii State Emergency Response Commission (HSERC). The HSERC is responsible for establishing local emergency planning districts, as well as appointing, supervising, and coordinating the activities of local emergency planning committees (LEPC).

The EP&R section also collects and assesses Tier II reports submitted annually by all businesses that handle large volumes of hazardous chemicals and extremely hazardous substances, as required by Chapter 128E, HRS: Hawaii Emergency Planning and Community Right-to-Know Act (HEPCRA).

2.1.2.1 Hawaii State Emergency Response Commission (HSERC)

The HEER Office provides administrative support to the State Emergency Response Commission (SERC). The SERC is chaired by the DOH Deputy Director for Environmental Health and establishes policy for statewide emergency responses, reviews Local Emergency Planning Committee's (LEPC) Emergency Response Plans, and develops statewide response plans.

At the HSERC meeting held on May 23, 2002, the Tier II funds of \$37,022 were approved by the HSERC membership. The funds were approved and disbursed to each LEPC for operational expenses in the following manner: a base of \$5,000 and the balance on the percentage of Tier II funds collected in each emergency planning district for the 2000 calendar year. The following is the distribution to the nearest dollar:

Honolulu	\$	12,558
Hawaii	\$	9,409
Maui	\$	7,979
Kauai	\$	7,076

At the HSERC meeting held on September 17, 2002, members approved the distribution of the US Department of Transportation (DOT), Hazardous Materials Emergency Preparedness (HMEP) Planning Grant funds (\$43,006), and the HSERC matching funds (\$10,752) to the LEPCs. The total amount of \$53,758 was allocated to update the LEPC emergency plans for FY 2003 in the following manner:

Honolulu	\$	20,000
Hawaii	\$	14,200
Kauai	\$	10,058
Maui	\$	9,500

Members from the Honolulu, Kauai, and Hawaii County LEPCs and the HSERC attended the Millennium 2000 HazMat Explo in December 2-6, 2002 in Las Vegas, Nevada. The conference provided a forum for hazardous materials training in industrial, medical, radiological, LEPC, first responder, and environmental disciplines. The event was initiated in response to State Emergency Response Commission and LEPC members' requests for a conference that would provide training in solutions to problems specifically posed by hazardous materials. Many different federal organizations such as the Federal Emergency Management Agency (FEMA), National Fire Protection Association, U.S. Coast Guard Pacific Strike Team, U.S. Environmental Protection Agency (EPA), as well as Clark County Local Emergency Planning Committee of the State of Nevada sponsored the event.

FY 2003 HEER OFFICE ACTIVITIES

The National Association of SARA Title Three Program Officials (NASTTPO) held its Mid-Year Conference at the Explo conference. Some of the highlights were:

- DOT Hazardous Materials Emergency Response Program funding levels for training and planning for FY 04 should remain at similar levels.
- The FBI recommended the Cable News Network (CNN) keep abreast in terrorist related information. Too much information on potential threats from Afghan detainees was probably released to the public, thus making the public largely indifferent to the alerts.
- The computer-based Hazmat/Weapons of Mass Destruction (WMD) curriculum for Awareness/Operations training should be completed later this autumn. This will allow for distance-based inter-active training for first responders.
- LEPCs were encouraged to get involved in Homeland Security issues as a means of gaining federal grants.
- EPA Region 9 described their program to survey site security of facilities reporting under the Risk Management Program.

Members of the Honolulu LEPC also attended the annual meeting of the National Association of SARA Title Three Program Officials (NASTTPO) and Hazardous Materials Emergency Preparedness (HMEP) Grants Conference that was held in Oklahoma City, Oklahoma, during April 21-25, 2003. This meeting provided a setting for interaction and the sharing of ideas, problems, and solutions with other people responsible for implementing the Emergency Planning and Community Right to Know Act (EPCRA). NASTTPO works with other organizations and federal, state, tribal, and local agencies with an interest in EPCRA and keeps its members informed about issues, legislation, and regulatory developments affecting EPCRA. The NASTTPO also studies EPCRA issues, and comments on federal proposals such as DOT, EPA, FEMA, and Occupational Health and Safety Administration (OSHA) draft rules; issues papers produced by such federal agencies; and budget actions which affect implementation of EPCRA. Some of the highlights of the conference were:

- Funding for the HMEP Grant Program should remain at the same level (\$13M) for FY 2004. This is the only federal program providing funding to HSERC/LEPCs.
- The proposed OSHA rule requiring escape hoods for Hazwoper facilities was a topic.
- The EPA is requiring water facilities serving communities with a population greater than 100,000 to conduct vulnerability assessments and to prepare an emergency response plan.
- The Sooner Spring Bio-Terrorism exercise conducted in Oklahoma was a topic. Four cities in Oklahoma were involved in the largest bio-terrorism field exercise conducted in the U.S. The exercise presumed an airborne release of pneumonic plague at McAlester, Oklahoma, where over 13,000 simulated doses of medication were given to community members via drive-thru and walk-in distribution centers. The presenter noted that the cell phone system was over-loaded and radios were the only reliable means of communication.
- The EPA Chemical Emergency Preparedness and Prevention Office (CEPPO) now includes an emergency response and the oil spill program. The Chemical Site Security program will fall under the Department of Homeland Security.

FY 2003 HEER OFFICE ACTIVITIES

- Exercises conducted by the National Security Agency (NSA) clearly show that the U.S. is vulnerable to cyber attacks. There were 32,434 attacks against U.S. interests in 2002.

At the HSERC meeting held on May 29, 2003, the Tier II funds of \$66,947 were approved by the HSERC membership for disbursement to each LEPC. The funds will be used for FY 2004 operational expenses in the following manner: a base of \$5,000 and the balance on the percentage of Tier II funds collected in each emergency planning district. The following is the distribution to the nearest dollar:

Honolulu	\$	26,831
Hawaii	\$	16,595
Maui	\$	12,793
Kauai	\$	10,728

HSERC members also approved the distribution of US DOT HMEP Planning Grant funds (\$43,006) and the HSERC matching funds (\$10,752). The total of \$53,758 was allocated in the following manner:

Honolulu	\$	20,000
Hawaii	\$	14,000
Maui	\$	9,500
Kauai	\$	10,258

2.1.2.2 Hawaii Emergency Planning and Community Right-To-Know Act Tier II Filing Fees

The deadline for owners and operators of facilities submitting Hawaii Emergency Planning and Community Right to Know Act (HEPCRA) Tier II filing fees for reporting year 2002 (calendar year 2002) is March 1, 2003 (FY 2003). Commonly, a greater amount of the filing fees collected by the HEER Office are submitted in February, just prior to the collection due date.

The following identifies the (1) amount of Tier II filing fees collected for use by the Local Emergency Planning Committees (LEPCs) and deposited into the Environmental Response Revolving Fund (ERRF) during FY 2003, (2) the amount collected to date for FY 2004, and (3) the amount to be collected in FY 2005.

FY 2000	\$	69,300
FY 2001	\$	53,800
FY 2002	\$	72,100
FY 2003	\$	79,400 for 2002 reporting year
FY 2004	\$	3,500 as of September 2003 end of FY 2003

The Tier II filing fees have been, or are being distributed as noted below to the Local Emergency Planning Committees, after deductions for the Hawaii State Emergency Response Commission (HSERC) operating expenses.

FY 2001	\$	60,000
FY 2002	\$	53,352
FY 2003	\$	37,022
FY 2004	\$	66,947

Fees collected for fiscal years 2004 and 2005 should remain constant at about the \$75,000 level.

2.1.3 Clean Air Act (CAA) 112(e) Accidental Release Prevention Program

The HEER Office EP&R section staff implements the Clean Air Act (CAA) Accidental Release Prevention Program (ARPP) Risk Management Program (RMP) which audits Risk Management Plans prepared by all facilities that handles or utilizes threshold quantities of chemicals listed in the Clean Air Act (CAA) 112(r) Regulated Chemical for Accidental Release Prevention List. These facilities will be inspected to verify the accuracy of their Risk Management Plans to prevent any releases of these regulated chemicals.

As of FY 2003 twenty-one RMP plans have been reviewed. Pending EPA approval to perform RMP site inspections, the RMP Coordinator has been reviewing and inputting Tier II facilities' information into the HEER database with the prospect of identifying additional sites regulated under the ARPP.

2.1.4 Emergency Response Significant Site Summaries

The HEER Office Emergency Preparedness and Response Section (EP&R) State On-Scene Coordinators (SOSC) are responsible for planning and preparing for, and responding to releases of a hazardous substance and/or oil that may cause immediate and substantial threat to human health or the environment. The SOSCs have been trained to enter hazardous atmospheres in self containing breathing apparatus and various types of personal protective equipment. As back-up personnel to first responder County HAZMAT teams, SOSCs are on 24-hour call.

During FY 2003, the HEER Office received 403 notifications of which 358 were directly concerned with the release of hazardous chemicals or oil spills. Of the 358 notifications reported, 71 required a site visit by a State On-Scene-Coordinator (SOSC) and/or a major off-scene coordination and response effort. During FY 2002 there were 490 notifications with 40 sites requiring on-scene or off-scene coordination. Notable among the spill responses during FY 2003 include the following:

- Honolulu Harbor Area-wide Contamination
- Hilo Bayfront Soccer Fields
- Vessel Groundings
- Environmental Crimes

In addition to the notable spill responses, Environmental Health Administration Hazard Evaluation and Emergency Response Office Release Notification Log in Appendix B contains a listing of all notifications received during the fiscal year. Many of these notifications were for small spills that were resolved in less than one day.

2.1.4.1 Honolulu Harbor Area-wide Contamination

The Iwilei District Operating Partners (IDOP) have continued to focus on preventing the release of the existing area wide petroleum contamination into the Honolulu Harbor and the waters of the State. The Hawaii Department of Health HEER Office has continued the oversight of source control, containment, response activities, and pipeline mapping. The Environmental Protection Agency (EPA) Federal On-Scene Coordinators (FOSCs) are assisting in this State lead joint project.

The IDOP is a group of organizations that is currently negotiating a voluntary agreement with the DOH to define responsibilities for prevention of releases in the Iwilei area. This agreement will augment the current voluntary agreement between the Iwilei District Participating Partners (IDPP) and the DOH to control releases, delineate the extent of contamination, remove sources, and remediate the Iwilei area.

The FY 2003 emergency response issues for the Honolulu Harbor area included seepage of petroleum hydrocarbons from the Pier 26 bulkhead into the harbor, and Pier 32 seepage onto the pier at the old Pauley/Shell asphalt plant. The Pier 26 seepage was patched and the IDPP has plans to excavate the area to find and remove the source. At the close of FY 2003 the Pier 32 seepage was being cleaned up, and plans to investigate the source were underway.

Also during FY 2003, the Nimitz Highway corridor in the area of Pacific and Sumner streets was in the process of being excavated for a Board of Water Supply new water main and street resurfacing project. During construction contamination was encountered. The contaminated area was partially excavated by the contractor, and was mapped and referred to the IDPP. The project and mapping continues for FY 2004.

The HEER Office will continue to provide oversight of the prevention and cleanup activities. The work will entail the evaluation of current facilities and the control and elimination of future releases. It is envisioned that the area wide remediation effort will require staff time for several more years.

2.1.4.2 Hilo Bayfront Soccer Fields

In November 2001, contaminated soil from an old gasification plant was deposited onto the Hilo Bayfront soccer fields via the Alenaio Stream Flood Control Channel. Contractors removed approximately 70 cubic feet of tar like fuel residue from the stream bank. The tar and the soil contaminated with polycyclic aromatic hydrocarbons (PAH) removed from the fields was disposed of as a non-hazardous waste. Following removal activities, the fields were capped with clean soil by Hawaii County.

The flood also wiped out monitoring wells that had been constructed to assess the impact of the buried tar on groundwater. These wells were restored by the County and FEMA.

Currently a berm located at the Northern end of the site contains approximately three thousand cubic yards of buried tar left by the Army Corps of Engineers during construction of a scour pond for the channel. Samples taken from the new wells show no significant impact to groundwater.

In an effort to find an on-island solution, the HEER Office has asked the EPA to assist in determining the environmental impact of the tar, as well as alternatives for its removal. There have been many of these old cooking gas manufacturing plants on the West Coast, and the EPA has been involved with cleaning up most of them. Pending the EPA's review of the site's historical documents and recommendations, the berm will then be thoroughly sampled.

2.1.4.3 Vessel Groundings

On November 28, 2002 the 60 feet steel hull fishing vessel, "Kolea", grounded off Diamond Head Light House releasing 1000 gallons of diesel fuel. Weather, and the fact the vessel was located in the surf line, prevented removal of the vessel until December 1. The vessel was towed offshore and scuttled in 300 feet of water.

On January 4, 2003 the motor vessel "Messenger of Peace" grounded on the reef off Maui in waters of the Humpback Whale Marine Sanctuary with 1000 gallons of diesel fuel on board. The owner had no insurance and was unable to pay for removal of the vessel. The Coast Guard transferred the fuel from the vessel and a National Oceanic and Atmospheric Administration (NOAA) contractor removed the vessel from the Marine Sanctuary for off shore disposal.

2.1.4.4 Illegal Dumping on All Islands

The HEER Office continually receives reports of drums and containers abandoned on the sides of the road and in remote places. Historically, drums that have been "abandoned" typically contain hazardous waste and/or petroleum, used cooking oil and grease trap waste, and are often been leaking. The HEER Office and Environmental Crimes Task Force is working to coordinate law enforcement and response efforts to mitigate the problem.

2.2 Hazard Evaluation

The HEER Office Hazard Evaluation Section provides ecological and human health risk assessment support, conducts toxicological assessments of chemical threats to human health, establishes appropriate cleanup levels for chemical contamination, and assists the public with information concerning the health effects of chemicals. In FY 2003, the staff provided risk assessment support and responded to a diversity of inquiries concerning potential health hazards. These inquiries included questions regarding heavy metals (i.e. mercury, lead, arsenic), pesticides, indoor/outdoor air quality, and other illnesses potentially related to the environment. HEER continues to provide information to private citizens, businesses, schools, other State and local agencies, as well as directly to the Director of Health and the Deputy Director for Environmental Health.

2.2.1 Ecological Risk Assessment

The Ecological Risk Assessor's work focused on review of ecological risk assessment reports and other supporting material including data sets, and program and project management activities. Additionally, in FY 2003, the purchase of new software broadened the possibilities for data analysis using correlation and regression techniques, and descriptions of data distributions used in risk assessments.

The two highest priorities for ecological risk assessment activities include: 1) the development of standards specific to Hawaii's environmental conditions and its unique biological communities, and 2) providing support for the day to day activities of project managers who are involved in the identification of contaminated sites, their assessment of remediation approaches, and the cleanup of these sites for the short and long term protection of the State's ecological resources. The following provides a summary of the ecological risk assessment activities.

1. Ecological risk assessment

During FY 2003 five ecological risk assessments were reviewed; three for military sites, one for a private site, and one responding to a requests from both the DOH Solid and Hazardous Waste and Clean Water branches and reporting on potential impacts by operations at Hilo power plant. A draft report of the impact of sedimentation to coral reefs was also reviewed to assist the Department of Land and Natural Resources (DLNR) in the preparation of testimony to the DLNR Board.

2. Program Management support and site reviews

The ecological risk assessor was involved with the discussion of sites with project managers, principal responsible parties (RPs) and their support contractors. Discussions for 49 sites ranged from contamination sources, distribution, levels, and potential impact to the environment. Site discussions sometimes required the review of site specific documentation while other sites required the gathering of information and interpretation of the data collected.

The review of specific site related documents numbered 15 including military and private ownership. These reviews generally evaluated questions about adequacy of sampling for ecological risk assessment purposes in terms of numbers and distribution across the site, and the interpretation of the sample data and proposals made by the principal Responsible Party (RP). Several site visits were conducted to local sites where it was necessary to make the connection between the written material and the physical locations of the site.

3. Development of standards

Development of standards efforts focused on the identification and evaluation of data for aquatic and terrestrial receptors specific to Hawaii. Potential impact to the Hawaiian environment is best protected by the use of standards specific to the island environment and the specific geologic conditions found in Hawaii. While procedures developed in mainland settings have relevance to Hawaii for general processes (biological and

toxicological), the unique species present in Hawaii requires special consideration for the receptor species and the particular tests used to evaluate potential environmental impact.

4. DOH support outside the HEER Office

Ecological risk assessment support was provided to outside DOH branches and the University of Hawaii. Assistance was provided to the DOH Solid and Hazardous Waste Branch (SHWB) in the review of documents, contract development support for site sampling criteria, data analysis, and presentations made at public hearings and meetings.

Document and data reviews were performed to support SHWB and Clean Water Branch (CWB) permit renewals at the Hilo power plant. Reviews included study of the potential impact of incinerator ash for two large operations, and potential impact of heated effluents to coral reefs and terrestrial environments.

Ecological risk assessment support was provided to the Environmental Planning Office (EPO) and the University of Hawaii for two fish studies. The reviews included evaluation of the fish species that would best represent the question being addressed, and, comparison of proposed sampling techniques to state requirements and good practices.

2.2.2 Public Health Studies

The following provides an overview of two public health studies performed in FY 2003.

2.2.2.1 VOG Health Assessment Study. An Assessment of the Health Effects from Exposure to Volcanic Emissions

The Vog (volcanic fog) study is entitled, "An Assessment of the Health Effects from Exposure to Volcanic Emissions (formerly: Hilo Asthma Pilot Study)." This study involves an evaluation of health risk issues that may be attributable to volcanic fog or "Vog" exposure on the island of Hawaii. This study is an effort to help individuals with respiratory sensitivity.

The staff at the HEER office continues to oversee and coordinate the Centers for Disease Control (CDC) research grant on the Vog study. Dr. Jon-Pierre Michaud is the contractor at the University of Hawaii at Hilo who is conducting this study.

The original goal of the CDC funded grant was to study the acute (short-term) respiratory effects of Vog exposure on asthmatic school children in Hilo. To date, no significant association has been found between mild to moderate Vog exposure and changes in lung function. This may be due to the fact that Vog exposures were low during the months that health data were collected.

A refocusing of the grant study has shifted the investigation to evaluate the health effects of Vog exposure in adults at the Hawaii Volcanoes National Park where relatively high exposures are expected. The purpose has been to capture one or more Vog exposure event(s) while simultaneously measuring air quality.

To assess air quality, sulfur dioxide and fine (sub-micron) aerosols were measured. In addition, lung function and respiratory symptoms were monitored during these events. Each subject

served as their own control and their daily health status measures were examined for associations with naturally occurring changes in Vog exposure conditions over several months.

In April 2003, a non-competing continuation grant application was submitted to the CDC for the Vog project in the amount of \$120,000 for the CDC year-06 grant award (September 30, 2003 through September 29, 2004). CDC approved this grant award in July 2003. The subcontractor's projected completion date is December 2004.

2.2.2.2 Fish Mercury Study

Eating fish containing harmful levels of methyl mercury is of particular concern to pregnant women. Women who regularly consume these fish can injure the developing nervous system of their unborn child or their child who is nursing. Young children especially under the age of five who eat these fish can have adverse effects as well. This is because the developing nervous system of the baby and young child is more sensitive to the harmful effects of methyl mercury than the more fully developed nervous system of an older child or adult.

In an effort to evaluate the risk of consuming mercury (methyl mercury) in locally caught fish, the HEER office collected fish tissue samples of fish caught off the coast of Hawaii. The samples were collected for predetermined size ranges from the United Fishing Agency, Ltd. in Honolulu. Analysis of the samples was contracted to certified analytical laboratories.

During the period from April 2002 to January 2003 the office collected 180 fish fillet samples in nine locally caught fish species to test for the presence of mercury. Twenty samples were collected from each of the nine fish species. The fish species sampled were bigeye tuna, yellowfin tuna, albacore, striped marlin, Pacific blue marlin, mahimahi, aku, ono, and opah.

To determine the size range to be sampled, the average size range (biomass) landed in Hawaii for bigeye tuna, yellowfin tuna, albacore, striped marlin, the Pacific blue marlin, and mahimahi was evaluated from the 1997 through 2000 data gathered from the National Marine Fisheries Service (NMFS) of the National Oceanic and Atmospheric Administration (NOAA).

Marlin was added to the fish sampling because the 1991 fish mercury data collected by the Hawaii DOH Food and Drug Branch showed marlin to have a lot of variability and the mercury concentrations were elevated. Aku, ono, and opah were sampled, as these are popular fish consumed by the local people of Hawaii.

Preliminary data analysis (weight and concentration) and data analyses (correlations and regressions) summaries (charts) were completed by the office's ecological risk assessor in preparation to writing an internal report.

The preliminary study results were shared with the Women Infants and Children (WIC) Services Branch of the Family Health Services Division. The WIC program developed a brochure entitled, "A Local Guide to Eating Fish Safely for Pregnant Women, Nursing Mothers, and Young Children." The brochure may be found at www.hawaii.gov/doh. The fish advisory guide is not intended to discourage pregnant women and young children from eating fish, but will provide a guide to eating fish that are low in contaminants such as methyl mercury.

The next phase of the fish study will be to collect fish samples at the retail market level.

2.2.3 Reporting of Pesticide and Heavy Metal Poisoning to the HEER Office

As stated in the Hawaii Administrative Rules (HAR) Title 11, Department of Health Chapter 5, Environmentally-Related Illness and Injury Reporting Law, the Hawaii DOH has made the abnormal lab results for pesticides (i.e. organophosphates and carbamates) and elevated lab results for heavy metals (i.e. lead, cadmium, mercury and arsenic) reportable conditions. That is, physicians and laboratory directors are required to report cases, or suspected cases, of pesticide or heavy metal poisoning in human blood and urine samples. Since many physicians may not be aware of this law, an agreement was made with local laboratory directors for them to provide lab results that show the presence of pesticide or heavy metals to the HEER office. The data from these lab reports will be used to increase the present knowledge and understanding of pesticide and heavy metals exposure to individuals and the magnitude of the problem in Hawaii.

In the past, all laboratory reports have been received in hard copy. The HEER Office is presently coordinating with the Epidemiology Branch to receive the reports electronically from the reporting laboratories. It is hoped that having the information available in an electronic form will help the HEER Office to summarize the data in a manner that furthers this project. This includes raising physician awareness of the pesticide or heavy metal exposure problem, and raising physician awareness of the need to report such exposures. This also includes gaining a better understanding of preventing pesticide or heavy metal exposure in the future.

Furthermore, the electronic Environmentally-Related Illness and Injury reports will be entered and stored in a new computerized data base that will be designed to be compatible with the Public Health Information Network (PHIN). The PHIN is a nationwide project of the U.S. Centers for Disease Control (CDC) whose goal is to interconnect all of the disease surveillance systems in the United States on the Federal and State levels. By pooling or combining Hawaii's and other states' illness reports, trends and patterns will be easier to notice, particularly among rare diseases.

2.2.4 Significant Hazard Evaluation Section Project Summaries

The following provides a summary of additional significant project activities performed in FY 2003.

1. Review of specific human health risk assessments

HEER toxicologists reviewed risk assessment documents for remedial investigations conducted by private parties, and state and federal agencies, as listed in the following:

- a. Costco's Iwilei Store
- b. 825 Kapiolani Boulevard
- c. Gasco in Iwilei
- d. Aiea Sugar Mill
- e. Sand Island Wastewater Treatment Plant

- f. Puunene Armory Site, Maui, before it could be converted into a community center where soil testing found that no pesticides were spilled by former crop sprayers
 - g. U.H. Medical School site in Kakaako, where unusually high barium contamination in soil was found possibly from past tenants' use of barium carbonate rodenticide
 - h. Waiehu Kou Phase 3 Hawaiian Home Lands housing, Maui, on land formerly cultivated in sugar cane and macadamia nuts
 - i. Waimanalo Gulch Sanitary Landfill expansion
2. Copper Chromium Arsenate (CCA) treated lumber at DOE locations

Wolmanized lumber which has been treated with chromium copper arsenate (CCA) is ubiquitous in the islands, having been used to construct government and school buildings, houses, and playground equipment (for example, Barbers Point Playground). Arsenic is a proven human cancer agent, and there is a possible risk to children's health from direct contact with public playground equipment made of arsenic-treated wood or with arsenic-contaminated soil beneath the equipment due to the leaching of arsenic out of CCA-treated wood by rainwater. The Departments of Education (DOE) and Accounting and General Services (DAGS) are trying to determine which public buildings might have this problem.

During this fiscal year, the Department of Accounting and General Services (DAGS) became aware of an additional health and disposal problem involving deteriorating ceilings in a few older schools which are made of canec, a material which was made from pressed sugar-cane stalks, with arsenic added to prevent attack by termites and mildew.

3. Metallic lead in upcountry Maui drinking water

The Maui communities of Makawao (population 33,000), upper Kula (population 4800), and lower Kula (population 3000) have a drinking water supply which corrodes and leaches lead out of old plumbing and fixtures. Consequently, lead in the area's drinking water has exceeded the level regulated under the EPA Lead and Copper Rule which is implemented by the Hawaii Department of Health (DOH) Safe Drinking Water Branch (SDWB).

In order to comply with the U.S. EPA and the DOH SDWB, the Maui Board of Water Supply added corrosion-control chemicals, either zinc phosphate or plain phosphate, to the local water system.

Following the addition of the zinc phosphate or plain phosphate to the water system, the public has complained of itching or irritated skin. Considering the known and irreparable damage of lead exposure to children, the complaint of occasional itching and skin irritation has become secondary.

A HEER Office toxicologist has been answering the public's concern by providing medical facts on the harmless and beneficial properties of phosphate, which is one of the two main ingredients of bones as well as the foundation of the body's energy system.

4. Possible chemical air pollution affecting Hawaiians in Keaukaha, Hilo, Hawaii

Various health complaints including respiratory problems and headaches among residents of Keaukaha, a Hawaiian Home Lands neighborhood between Hilo Airport and Hilo Harbor, have led to speculation about an environmental cause to the health problems. Letters have been written from that community to the Governor and to Congressman Ed Case, who sent letters to the U.S. Environmental Protection Agency and the U.S. Department of Health and Human Services. The federal agencies and the Hawaii DOH will work together in assessing the community's environmental pollution. This issue overlaps into the next fiscal year.

5. Mold in indoor environments, statewide

The fallout continued from last year's newspaper and magazine articles on "toxic mold" which alarmed the public and led to the highly visible closing of a tower at a large Waikiki hotel. HEER again fielded dozens of calls and letters from homeowners and renters who were concerned about possible asthma, memory loss, and dizziness from growths of fungus and mildew. The DOH Indoor Air Office also received dozens more.

6. Coqui frogs on Maui and Hawaii

The infestation of noisy and possibly ecologically damaging Puerto Rican coqui frogs continued from last year. HEER consulted with the state Department of Agriculture's (DOA) Pesticides Branch, which used a citric acid and water solution to try to stop the spread of the frogs to other islands.

7. Lake Wilson, Oahu

A noxious waterweed, *Salvinia molesta*, bloomed on Lake Wilson. The Department of Land and Natural Resources (DLNR) spraying crews were provided with a chemical mixture for use to kill the waterweed. The DLNR workers were concerned that they were not given adequate information about the chemicals used and asked a HEER Office toxicologist for impartial advice and assurance from the DOH. Information was provided to the workers that mixture of Aquamaster, a mildly toxic glyphosate weed killer, and Turf Mark, a harmless marking dye was used.

8. Protests against roadside weed killing, Kauai

A group of private citizens on Kauai is claiming that the County Department of Transportation's application of RoundUp herbicide, used to kill roadside weeds, is the major contributor to their illnesses. They have called and written letters to the state Department of Agriculture's Pesticides Branch, the HEER office toxicologist, the Governor, and the U.S. EPA who licensed and permitted the weed killer to be sold in the United States. The issue has also featured in at least two local newspaper articles. To date, no licensed physicians or veterinarians have confirmed their claims.

9. Air quality at Campbell Industrial Park, Oahu

HEER evaluated the DOH Clean Air Branch (CAB) Annual Summary of Air Quality Data for the Campbell Industrial Park (CIP) Area, 2002. The CAB used this evaluation in their annual air quality report for the CIP area.

10. Dredging of the Ala Wai Canal, Oahu

HEER assisted the DOH Solid and Hazardous Waste Branch (SHWB) on review of human health risks associated with disposal of dredged spoils from the Ala Wai Canal at the Honolulu Airport reef runway. The assessment reported that no health risks are expected for disposal of the dredged materials at the runway.

11. Waipahu Incinerator, Oahu

An environmental risk assessment document for the Waipahu Incinerator and Landfill submitted to the DOH Solid and Hazardous Waste Branch (SHWB) was reviewed by the HEER office. The incinerator and landfill issues were addressed by preparing summaries based on specific information and summary data from samples collect by a DOH support contractor.

High levels of lead were found in ash or dust on the landfill and incinerator site. The risk assessment evaluated the health risks to workers and people living or playing offsite from exposure to ash or dust. The assessment indicated that given current land use, the incinerator and landfill does not pose a risk. The HEER office concurred with the conclusions of the risk assessment.

12. *Vibrio Vulnificus* , Ahalanui Pond, Hawaii

The HEER Office assisted the Clean Water Branch (CAB) in an investigation of a *vibrio vulnificus* infection from the Ahalanui Pond on the Big Island. Sampling of the pond by the Water Resources Research Center at the University of Hawaii found elevated levels of total vibrio compared to open coastal waters. The HEER office assisted the Director's office in preparing a letter to the County of Hawaii recommending that warning signs be posted at the pond.

13. U.S. Department of Defense (DOD) chemical and biological testing, Hawaii

At the request of the Mayor on Hawaii, information was provided to the County on chemical and biological weapons testing on the island of Hawaii. In the 1960s, the U.S. Department of Defense (DOD) conducted eight land-based tests. The quantities released varied from a few ounces to 500 pounds. The agents released included *Bacillus globigii*, *Serratia marcescens*, *E. Coli*, sarin gas, BZ (3-quinuclindinyl benzilate), methyl acetoacetate, and zinc cadmium sulfide. After reviewing the results of the testing, the HEER office and an epidemiologist from the DOH Epidemiology Branch concluded that no adverse health or environmental impacts are expected from the testing.

2.2.5 Committees, Advisory Boards and Community Presentations

The following is a summary of committee, advisory board, and community presentation activities for FY 2003.

1. Interstate Working Group on Chemical Terrorism

A HEER office toxicologist is Hawaii's representative on the voluntary Interstate Working Group on Chemical Terrorism, which is a collaboration of state, federal, and a few county government scientists and academic experts. The latest information and well-developed educational tools have been shared, so that all states are now equally well informed. However, from a national questionnaire which was generated within the group, no state is adequately prepared for a chemical terrorism incident.

2. The VOG (volcanic fog) Advisory Committee, Statewide

HEER continues to be an active member of the VOG Advisory Committee. This is a joint committee of federal, state, university, and community representatives. The discussion of ongoing technical projects and potential new research areas such as the Vog Health Assessment Study (section 2.4.2) are key areas of interest of the VOG Advisory Committee.

3. Disposal of Ala Wai Dredging Material, Honolulu

The issues surrounding the placement of dredge material from the Ali Wai Canal onto the property controlled by the Honolulu Airport were addressed in part by much discussion with DOH staff, a site visit, attending a public meeting, and preparing for and participating in a public hearing by answering questions from the public.

4. Contaminants in Fish, Vermont

A toxicologist attended the annual U.S. Environmental Protection Agency's meeting on Contaminants in Fish in Vermont. Much of the focus at the meeting was on mercury in fish, an area of interest to the HEER group.

5. Crisis and Emergency Risk Communication, Honolulu

A toxicologist attended a training session on Crisis and Emergency Risk Communication, in Honolulu. The session was sponsored by the Hawaii DOH and the U.S. Centers for Disease Control and Prevention.

6. Global Public Health Conference, Honolulu, Hawaii

A toxicologist made a presentation at the Global Public Health Conference, Collaborating for Quality of Life and Health in the Pacific, held in Honolulu, Hawaii. The title of the presentation was "Organochlorine Pesticides and Lead in Fish from the Ala Wai Canal.

7. First Annual Public Health Information Network Conference, Atlanta, Georgia

The U.S. Centers of Disease Control (CDC) has committed millions of dollars over the next few years toward the creation of a Public Health Information Network (PHIN), which will be a secure computer link among all the state and county health agencies, the National Institute for Occupational Safety and Health (NIOSH), and the CDC. Ultimately, the DOH could use health information from those federal agencies or from any other state, or this will be as if one big national department of health could conduct statistically powerful health studies of rare diseases, or react nationally to bio- or chemical terrorism incidents. A HEER Office toxicologist attended this conference along with the DOH's bio-terrorism coordinator and computer-systems supervisor.

8. National Bio-terrorism Exercise, Honolulu, Oahu

The U.S. Food and Drug Administration conducted a nationwide "tabletop" exercise in April 2003. The purpose of the exercise was to improve participating programs' ability to prepare for, manage, and respond to region-wide terrorism incidents involving the use of a chemical or biological agent to contaminate the food supply. The one-day exercise was conducted by U.S. Food and Drug Administration FDA faxing information in progressive bulletins regarding a mysterious illness caused by a contaminated food product. The HEER Office joined the Sanitation Branch, the Food and Drug Branch, and the State Laboratories Division in this exercise.

2.3 Site Discovery, Assessment, and Remediation

The HEER Office Site Discovery, Assessment, and Remediation (SDAR) Section State Remedial Project Managers are responsible for assessing the near and long-term relative threat of sites contaminated with hazardous substances and for the oversight and implementation of response actions at sites with suspected and confirmed releases of hazardous substances, including petroleum. Project oversight is provided to military facilities subject to the Department of Defense/State Memorandum of Agreement (DSMOA) and to civilian sites undergoing cleanup activities.

Responsibilities include:

1. Site Discovery – Identifies all sites in the State of Hawaii jurisdiction that is contaminated or potentially contaminated.
2. Supports the U.S. Environmental Protection Agency (EPA) by conducting Preliminary Assessments (PA) and Site Inspections (SI) to determine which sites should be listed on the Superfund National Priority List (NPL).
3. Assessment - Coordinates the State's setting of assessment and clean-up priorities to identify and designate sites as low, medium or high priority or as a No-Further-Action (NFA) site.

4. Provides oversight and technical expertise to governmental agencies and private entities who conduct site investigation activities for defining the extent of contamination on individual properties.
5. Remediation - Provides oversight to potential responsible parties (PRPs) who are conducting response actions to insure that hazardous materials and contaminated sites are cleaned-up in a timely manner that is protective of human health and the environment.
6. Brownfields - Assisting State and private development efforts with the identification of sites that have low contamination and high potential for commercial development and overseeing that the cleanup meets State laws;
7. Voluntary Response Program – Overseeing and assisting private parties with the voluntary cleanup of sites.
8. Cost Recovery - Insuring the reimbursement of State expenditures and/or the payment of natural resource damages when appropriate.

2.3.1 Department of Defense State Memorandum of Agreement (DSMOA)

The Department of Defense continued to provide grant monies in support of the HEER Office Department of Defense/State Memorandum of Agreement (DSMOA) program in FY 2003. Program staff vacancies have influenced the progress of the Department of Defense sites. An employee was hired for the Air Force position and currently interviews are being conducted for the Geologist I and the Army project manager in the DSMOA program.

2.3.1.1 Army Installation Significant Sites

Army Sites: These sites are being managed by the U.S. Army Corps of Engineers (ACE) with work being performed by contractors. Site work continues at many sites throughout the Islands. In addition to this work, other efforts are being performed at Formerly Used Defense Sites (FUDS) by the ACE under the oversight of DOH. In addition, several sites were included under the Base Closure and Realignment Commission (BRAC) with work continuing during FY 2003. These efforts are listed below with brief descriptions.

1. Tripler Army Medical Center, Oahu

The Tripler Army Medical Center (TAMC) Landfill is located on the west side of the TAMC installation. The landfill was active from 1947 through 1974. Early landfill use was restricted to construction debris from the construction of TAMC. Later, the landfill was used to dispose of incinerated medical waste, laboratory wastes, maintenance waste, food waste, and construction and landscaping debris. Unspecified waste from Fort Shafter was also disposed in the landfill. The Army conducted a Preliminary Field Screening Investigation to determine the presence or absence of hazardous substance contamination from the landfill operation. The investigation found polynuclear aromatic hydrocarbons, pesticides, lead, and dioxin chemicals in the surface and subsurface soils

in the interior of the landfill. Monitoring wells were installed down to the basal groundwater aquifer and analysis results of the water found no chemical contamination. The remedial investigation (RI) conducted by the Army confirmed the levels of dioxin, polychlorinated biphenyls (PCBs) and pesticides in the surface soil, subsurface soil and sediment. The Army installed a cap over the landfill and a concrete drainage channel to handle the rainwater runoff from the landfill to address any human health risk posed by the contaminants.

Progress:

The Army did not perform any environmental work on the Tripler Army Medical Center Site during the state FY 2003.

2. Fort Shafter, Oahu

Progress:

The Army completed the final work plan and sampling and analysis plan for the remedial investigation of several Fort Shafter Flats Sites.

3. FUD Sites, Statewide

The Formerly Used Defense Sites (FUDS) Program is a massive national undertaking to identify hazardous-materials-contaminated properties which were formerly owned, leased, possessed, or operated by the Department of Defense (DOD) or its contractors prior to 1986, and which are no longer under the control of DOD (i.e., the land is public or privately owned). The inventory of properties are being evaluated for risk, and the properties will be cleaned up or otherwise cleared. The Army is the executive agent for the FUDS Program and the US Army Corps of Engineers (USACE) is the operational segment that manages and executes the Program. U.S. EPA under various environmental statutes (CERCLA, Resource Conservation and Recovery Act (RCRA), Safe Drinking Water Act (SDWA) can become involved in reviewing, compelling, or undertaking cleanups when imminent and substantial endangerment of the public health and the environment is threatened. Various other agencies may also have jurisdictional interests in the Program: Federal land and resource managers health risk managers, and State, Territorial, and tribal agencies. Community involvement in the process is important. Nationally there are over 9,000 FUDS properties; within Region 9 there are more than 2,000 of these, and of that number, about 600 are within the Pacific Ocean Division (POD), which includes the State of Hawaii. As of December 2002, there were 474 FUDS Projects within Hawaii (as of this date the inventory showed there were 377 eligible FUDS Properties in Hawaii).

The USACE contractor has prepared a Statewide Management Action Plan (MAP) for the Defense Environmental Restoration Program Formerly Used Defense Sites (DERP-FUDS) in Hawaii (2003). The purpose of the Statewide MAP is to provide a compilation of pertinent data and restoration activities for all active DERP-FUDS properties located within the state to allow meaningful involvement by regulators in the planning and prioritization process, determine the lead regulatory agency for each DERP-FUDS project, and develop a strategy for reaching property closure. In general, the Statewide

MAP summarizes the status of restoration programs for each property in addition to the anticipated future actions to address environmental damage.

DOH has reviewed this document and provided comments to the USACE. High risk categorization for Hawaii sites includes seventeen sites: Waikoloa Maneuver Area – Waikoloa Village; Waikoloa Maneuver Area – Parker Ranch; Nansay Hawaii – Ouli; Nansay Hawaii – Puako; Firing Range and Camp; Heeia Combat Training Camp; Pali Training Camp; Gunnery Site; Offshore Waianae Sewage Outfall; Papohaku Ranchlands Subdivision; Kamaole Training Area; Hickam Military Air Field; Ahukini; Oahu Island Target; Pacific Jungle Training Camp; and Popoki Target Area.

Documents written by the USACE contractors for these sites will be reviewed by DOH in FY 2004 to certify that the evaluations will meet State laws and regulations.

4. Maui Airport, Puunene, Maui

Progress:

The Army Corps of Engineers (ACE) completed an addendum to the work plan and sampling and analysis plan for the removal action of PCB contaminated soil and concrete at the transformer site.

5. Waikoloa Maneuver Area, Waikoloa, Hawaii

Progress:

The Army Corps of Engineers completed the work plan for the removal action of cleaning up the unexploded ordinance (UXO) at the Waikoloa Maneuver Area site.

2.3.1.2 Navy Installation Significant Sites

1. Naval Computer and Telecommunications Area Master Station Pacific, Oahu

The Naval Computer and Telecommunications Area Master Station (NCTAMS), facility was placed on the National Priorities List (NPL) in May 1994. NCTAMS is composed of two sites, a Naval Radio Transmitting Facility (NRTF) at Lualualei, the main station, and a receiver site in Wahiawa. NCTAMS Wahiawa is located on the eastern side of the highest part of the Schofield Plateau and about one mile east of Whitmore Village. The Lualualei Naval Radio Transmitting Facility is located in Lualualei Valley and is contiguous with Naval Magazine Lualualei. Earlier site investigations detected polychlorinated biphenyls (PCB) contamination in the soil around electrical transformers. The investigation found out that maintenance technicians checking the transformer oil, which contained PCBs, were discarding the oil samples directly onto the ground around the transformers. In 1991, the Navy conducted a removal action by excavating the PCB contaminated soil around several of the transformers and sending it to the mainland for proper disposal. This site investigation identified 15 sites that require further investigation at NRTF Lualualei and NCTAMS Wahiawa. The Navy has completed the remedial investigation at the Old Wahiawa Landfill and the Building 6 Disposal Area. The Navy has also completed the removal action at the transformer sites at both NCTAMS facilities

by excavating PCB contaminated soil and storing it for treatment. The Navy has selected a vendor to accomplish the thermal desorption treatment of the PCB contaminated soil. Treatability tests of the thermal desorption treatment system have been completed. The Navy is in the process of selecting a contractor to perform the thermal desorption treatment of the PCB contaminated soil.

Progress:

- a. The Navy completed the Sampling and Analysis Plan for confirmation and verification sampling at nine sites at NCTAMS Wahiawa.
- b. The Action Memorandum for the Treatment /Disposal alternative for PCB contaminated soil was completed by the Navy.
- c. The Site Work Plan for the Thermal Desorption Treatment of PCB contaminated soil at the former Naval Air Station (NAS) Barbers Point was completed.
- d. The Navy completed the Work Plan for the Removal Action of PCB contaminated soil at Group B and C sites.
- e. The characterization and confirmation sampling plan for the Group B transformer sites PCB contaminated soil removal action was also completed by the Navy.
- f. The Navy conducted Restoration Advisory Board Meetings at the Wahiawa and Nanakuli Libraries.

2. Pearl Harbor Naval Station, Oahu

Progress:

- a. The Navy completed the two addendums to the work plan for the removal action of the old aviation gas (AVGAS) pipeline on Ford Island.
- a. A supplemental RI report for the Building 593 and Halawa Landing Site was completed by the Navy.
- b. The Environmental Baseline Survey and Finding of Suitability to Lease for the Ford Island and Halawa Landing properties were completed.
- c. An Engineering Evaluation/Corrective Action EE/CA, Site Work Plan and Action Memorandum for the non-time critical removal action at five hazardous substance sites on Ford Island were completed by the Navy.
- d. The Navy also completed a removal action memorandum for the Inactive Petroleum Pipeline at Halawa Landing.
- e. The Ford Island final Remedial Investigation Report was published by the Navy.
- f. The Navy conducted two Restoration Advisory Board Meetings for the Pearl Harbor Naval Complex.

3. Pearl Harbor Naval Public Works Center-Pearl City Peninsula Landfill, Oahu

The landfill is located on the north shore of Middle Loch and operated from 1965 until 1976. The site is currently capped with a two-foot thick layer of crushed basalt. An investigation indicated the presence of dioxin, polychlorinated biphenyls (PCBs), semi-volatile organic compounds (SVOCs), trichloroethylene (TCE), and fuel products. The Navy completed a removal action, which involved repairing large cracks in the landfill cap, covering some black sand that was on the surface of the landfill and capping some asbestos material that was recently discovered on the border of the landfill. The Navy is presently accomplishing an ecological risk assessment on the Waiawa Unit National Wildlife Refuge, which is adjacent to the landfill. The Navy is also accomplishing long-term monitoring of the groundwater under the landfill.

Progress:

- a. The Navy completed the two Quarterly Long -Term Monitoring Reports for the Pearl City Peninsula Landfill.
- b. The NEX Gas Station fuel product recovery report was completed by the Navy with a total of 11,711 gallons of oil recovered at the site.

4. Pearl Harbor Naval Shipyard Building 8, Oahu

Building 8 is located in the Naval Shipyard Industrial Area on the East Loch of Pearl Harbor. It served as a power plant, an equipment test facility and a pipefitting shop. Site investigations revealed that subsurface oil is accumulating within Building 8 sumps and other subsurface structures adjacent to the building. During heavy rainfall events, oil sheens in Pearl Harbor around Dry Dock No. 1, are suspected to be caused by oil migrating along the conduits of the Building 8 storm drain system and into Pearl Harbor. An oil plume up to several feet thick has been identified in the ground around Building 8. The Navy has installed an active extraction system to contain and extract the oil from the plume under the site.

5. Pearl Harbor Naval Shipyard Oscar 2 Pier, Oahu

The Oscar 2 Pier is located on the western corner of the naval shipyard. The site is adjacent to Building No. 177, a power plant that is no longer in service. Black oil was noted on the northwest shore off the Oscar 2 Pier. The oil appears to be old residual fuel oil with a tar like viscosity much like the Navy Special Fuel Oil. Two permanent oil extraction wells, installed in the past to collect oil in the ground and prevent it from going into Pearl Harbor, are located near the site. To stop the release of oil presently going into Pearl Harbor, the Navy has decided to install a passive trench recovery system about 150 feet long along the shoreline at the site. The passive trench recovery system is the primary technique for recovering oil in the subsurface areas of the site.

Progress:

- a. Oil Product Recovery System Monitoring Reports for the Oscar 2 Pier and Building 8 sites were completed by the Navy. Both systems are working well with a total of 13,594 gallons of oil recovered from Oscar 2 Pier and 21,695 gallons from Building 8.
- b. The Navy completed a draft Work Plan and Sampling and Analysis Plan for the Subsurface Fuel Investigation for the Pearl Harbor Naval Shipyard and Lower Tank Farm Area.
- c. The draft Work Plan, and Sampling and Analysis Plan, for the Site Inspection at the Building 215 Equipment Wash-down Pad and Storm Drain System were also completed.

6. Red Hill Oily Waste Disposal Pit, Oahu

This site was constructed in the early 1940's and is located within the Red Hill fuel tank farm area. An unlined pit located in the central portion of the site was used for the disposal of oily residues generated during periodic fuel tank cleaning operations and oily waste generated by leaks and drips from fuel piping systems associated with the Red Hill fuel storage tanks. The unlined pit was replaced with a stilling basin made of gunite and asphaltic-concrete in 1972. The Navy conducted a remedial investigation of the site and found petroleum hydrocarbon and polynuclear aromatic hydrocarbon (PAH) contamination in the subsurface soils where the old unlined pit was located and under the stilling basin. Petroleum hydrocarbon contamination was also found in the shallow groundwater system located under the stilling basin. Based on these results, the Navy conducted a removal action which involved removing the stilling basin and the petroleum contaminated soils under the stilling basin and where the old unlined pit was located. To determine whether the petroleum hydrocarbon contamination did infiltrate into the basal groundwater aquifer, the Navy has installed monitoring wells into the basal aquifer and sampled the basal groundwater. Analytical results have shown no contamination in the basal aquifer. However, soil samples taken on various areas of the site show some high levels of petroleum contamination. The Navy has completed the field work to further characterize the extent of petroleum contamination in the subsurface soils.

Progress:

- a. The Navy completed the draft Characterization Report for the TPH diesel release at the Above Ground Storage Tank Area at the Red Hill Oily Waste Disposal Pit.
- b. The Quarterly Oil Recovery Monitoring Report for the remedial assessment RA at the Hotel Pier Site was completed.
- c. The Navy completed the quarterly Oil Recovery Monitoring Report for the RA at the Magazine Loch and Quarry Loch sites.
- d. Draft Remediation Verification Reports were also completed for the Quarry Loch and Magazine Loch oil removal actions.

7. Pearl Harbor Naval Magazine, Oahu

Progress:

- a. The Navy completed the work plan, removal action and remediation verification report for the excavation of PCB contaminated soil at the Transformer S127 and S61 sites at the Waikele Branch Naval Magazine Pearl Harbor.
- b. The State completed its review of the Remedial Investigation Report for the Waipio Peninsula Pesticide Mixing Area Site.
- c. The Navy completed a draft Finding of Suitability for Transfer FOST for the Lualualei Navy Access Road property to be transferred to the City and County of Honolulu.
- d. The Navy completed the remedial investigation sampling and published the Remedial Investigation report for Building 4 former pesticide shop at the Naval Magazine Lualualei Branch Facility.
- e. The site inspection (SI) sampling work was accomplished and the SI report for the Lualualei Branch Facility was completed.
- f. The Navy completed the non-time critical removal action work at the Building 13 Oil Change Rack, Small Arms Firing Range and Transformer S127 and S61 sites and published the Remedial Verification Report, Proposed Plan and Finding of Suitability to Lease documents for the sites.
- g. Work Plan Addendum #2 for the Site Investigation of UST 50/51 and Building 21 at the Waikele Branch Facility was completed by the Navy.

8. Barbers Point Naval Air Station (NAS), Oahu

In 1993, the Base Closure and Realignment Commission placed NAS Barbers Point on the Base Realignment and Closure (BRAC) list. The base closed on July 2, 2000. The airport has been transferred to the State Department of Transportation. Other parcels are in the process of either being transferred or remediated first and then transferred. The Navy, the EPA, and the State of Hawaii make up the Barbers Point BRAC Cleanup Team. The Navy formed BRAC to make decisions on closure-related environmental issues. The Governor signed the Community Redevelopment Plan providing an overall reuse strategy for the conversion of the base to civilian use after its closure in 2000.

A Restoration Advisory Board (RAB) was established in 1994 to support community involvement in the environmental decision-making process. Cleanup of the Navy is being correlated with the strategy to make the sites usable in an expedited time. The Navy has completed a removal action by excavating lead and antimony contaminated soil from the former firing ranges. The Navy has also completed removal actions at the old Engine Test Cell Area, the Coral Sea Road Coral Pit, the Former Sewage Treatment Plant, the Southern Trap and Skeet Range, and the Hazardous Waste Accumulation Area #6. Plans are being developed to accomplish a cleanup of the Northern Trap and Skeet Range.

Progress:

- a. The Record of Decision was signed for the Coral Sea Road Coral Pit Site.
- b. The Navy completed the Long-term Monitoring Plan for the Consolidation Unit on the site.
- c. The Record of Closure for Underground Storage Tank/Above Ground Storage Tank (UST/AST) and Assessment of the Hydraulic Lifts at the National Guard Site was completed by the Navy.
- d. The Annual Groundwater Monitoring Report for the Barbers Point groundwater system was completed.
- e. The Navy completed a draft work plan for the continued monitoring of the regional groundwater system on Barbers Point.
- f. The Navy held a Base Closure Team meeting with EPA and the State and discussed the environmental work that was going on for several sites on the base.

9. Pacific Missile Range Facility, Kauai

Progress:

The Navy completed a Technical Addendum to the Work Plan and Field Sampling and Analysis Plan for the Site Inspection to be accomplished at the Facility.

10. Camp Smith, Oahu

Progress:

The Navy completed a revised Removal Site Evaluation Sampling and Analysis Plan for the Old Pistol Range site.

2.3.1.3 Air Force Installation Significant Sites

The DOH oversight at Air Force (USAF) installations has been hampered by the lack of a project manager since March of 2002. While available staff have attempted to cover the necessary oversight events, much of this work has been on hold. Hiring of a Remedial Project Manager for USAF sites is a primary priority for the HEER Office. A major effort for the upcoming fiscal year will be to complete the review and oversight responsibility for the Air Force sites during the absence of the project manager.

Among the seven 15th Air Base Wing (15 ABW)-managed installations (six on Oahu and one on Kauai), more than 140 environmental projects are inventoried, including over 100 sites and over 40 areas of concern. The vast majority of the projects are located at two installations, Hickam AFB and Bellows Air Force Station (AFS). The USAF and its contractors have updated Management Action Plans (MAP) for major sites during FY 2003.

A. Bellows Air Force Station (AFS) Installation Restoration Program, Oahu

The Installation Restoration Program (IRP) at Bellows includes 20-IRP sites and 17 Areas of Concern (AOCs). Site investigation, sampling and remediation at Bellows AFS continues

1. The Bellows Excess Land

Several acres of land at Bellows were declared excess and will be deeded to the State of Hawaii and the Navy. Over 1000 acres of land are proposed for transfer to the United States Navy for the Marine Corps in 2003. Other lands under transfer plans and were prioritized for site investigation and remediation.

2. Underground Storage Tank sites on Excess Land at Bellows

Investigation and closure of the underground storage tank sites at the Bellows Excess land was completed. All of the underground storage tank (UST) Installation Restoration Program (IRP) sites received a no further action determination and were closed, except for the UST sites in Sherwood Forest recreation area. The site will be handed over to the formerly used defense sites (FUDS).

3. Underground Storage Tank Sites

Investigation and closure of the underground storage tank sites at the Bellows Excess land was completed. All of the UST IRP sites were closed with no further action except for the UST sites in the Sherwood Forest recreation area. This area is considered outside the Bellows property boundary and the site will be handed over to the formerly used defense sites (FUDS). The decision documents for the UST IRP sites were signed by the Air Force and DOH. These UST sites include the Inoaole Stream USTs, Waimanalo Stream USTs, Fighter Housing USTs, Sub-depot USTs, and the Coastal Area recreational USTs.

4. Landfills/Dump Sites

The USAF is reassessing options regarding Bellows' OU-1 primary landfill, and has ordered an Engineering Evaluation/Corrective Action (EE/CA) to update the June 2001 EE/CA. "The overall objective of the latest EE/CA is to expedite site characterization and remedial action at Bellows to facilitate the restoration of these sites."

The USAF has finalized a Pier Dump Site (LF24) Removal Site Evaluation Work Plan.

5. Areas of Concern (AOC)

The USAF completed a Site Inspection (SI) work plan for AOCs 18, 20 and 21 (the WWII Dump, former Motor Pool Buildings, and a former Decontamination Facility) and completed the inspections. Final reports were delivered.

"No Further Response Actions Planned" NFRAP documents for several sites were drafted by the USAF and are undergoing review. These sites include AOC 20 – Former Motor Pool Facility, and Former Building 470 – Decontamination Building.

B. Hickam Air Force Base Installation Restoration Program (IRP), Oahu

Hickam Air Force Base (AFB) Installation Restoration Program (IRP) includes 42 IRP sites and 25 AOCs (including Fort Kamehameha sites). Site investigation, sampling and remediation at Hickam AFB are an ongoing process. Multiple areas of concern are subjects of on-going investigation.

1. Base-Wide Projects

The USAF investigated potential PCB (polychlorinated biphenyls)-containing components base-wide and completed a Preliminary Assessment/Site Inspection report, resulting in recommendations for removal, cleanup and further investigation.

The USAF submitted Work Plans, and Reports, on Long Term Monitoring (LTM) for OT02 Runway 8L Interim Remedial Actions.

The USAF has completed a Work Plan for a Base-wide Ambient Metals Study.

2. SS01 Subsurface Fuel Plume

For SS01, the USAF continues an Interim Remedial Action (IRA) near Vandenburg Blvd & Freedom Avenue, including operation of its multi-phase extraction (MPX) system. The USAF issued several operational and technical reports on the IRA and its MPX operation. Extraction of contaminants from the underlying groundwater continues to exceed expectations.

3. Runway 8L Area, Hickam AFB

Institutional controls (restricting use/access to the affected areas) are in place, as are monitoring wells upgradient from Kumumauu Canal. The Long Term Monitoring (LTM) is performed annually in those groundwater monitoring wells to evaluate whether Constituents of Concern (COCs) are migrating off-site towards the Canal. Results of the 2003 monitoring rounds demonstrated no increase in the COCs. Annual monitoring will continue for the recommended period (total of five years).

Monitoring continues at OT02 (AEC Leach Field) with a final monitoring round due in 2005. Hickam Air Force Base HAFB expects to negotiate a Record of Decision (ROD) following completion and evaluation of the final monitoring results.

4. Two Drainage Canals, the Manuwai and Kumumau Canals

The USAF completed a Remedial Investigation report for SD02, the Manuwai Canal. Surface water, sediments and aquatic organisms were tested for contaminants. While the low levels that were found are not considered an unacceptable risk to human or aquatic health, the USAF will continue its investigation into potential sources of the contamination in area SD02.

5. John Rodgers Tank Farm

The John Rodgers Tank Farm spill site (SS13) is currently being monitored to document naturally occurring attenuation of the constituents of concern (COCs). Phytoremediation (cleanup of COCs in the root zone of selected plants) and soil land farming continue at this site.

6. Par 3 Golf Course

For Par 3 Golf Course (SS15), limited petroleum product removal is planned, with monitored natural attenuation to continue.

7. Landfills within the Runway 8L Out-Grant Area

Two landfills associated with Runway 8L are currently undergoing Remedial Investigation / Feasibility Studies to determine final closure strategies for these sites. For Landfill 14, remedial work at this site is substantially complete, currently awaiting a record of decision (ROD) for closure.

8. Fuel Distribution Pipeline

All known abandoned petroleum oil and lubricant POL Pipeline on HAFB has been cleaned and either removed or abandoned-in-place. Confirmation sampling was completed during FY 2003.

9. Mamala Bay Golf Course Landfill LF05

The USAF determined through a Remedial Investigation (RI) at LF05 that levels of contamination at this site present unacceptable risks to human health. Therefore, USAF prepared a Work Plan for a Feasibility Study (FS) to further define the contamination constituents and their extent in the soils and groundwater, followed by proposing and evaluating remedial action alternatives site-wide.

In 2002, during maintenance work at Mamala Bay golf course, bottles containing solvents were discovered. USAF drafted a Work Plan for removing those bottles as part of a Time-Critical Removal Action (TCRA). This work will be incorporated with the LF05 Feasibility Study and subsequent remedial actions.

C. Other Significant Air Force Sites

1. Fort Kamehameha, Oahu

This property was received from the Army as part of a land trade for Wheeler Field. Several Areas of Concern (AOC's) are in the planning stage for evaluation in FY 2004

2. Hickam POL Pipeline and Fuel Storage; including Kipapa Fuel Storage Annex (FSA), Valve Pit #17 (VP17) and Waikakalaua Fuel Storage Annex, Oahu

The USAF has finalized a Remedial Investigation/Feasibility Study (RI/FS) for the POL Pipeline system's Mililani-area facilities (Kipapa, VP17 and Waikakalaua, above). As part of the ongoing public participation process, progress on the RI/FS was delivered in a Summary Report to the Central Oahu Restoration Advisory Board (RAB). Semiannual monitoring and annual reporting were completed for the POL Pipeline and Fuel Storage Annexes.

During this year's pipeline cleaning project, a spill occurred near Pearl City at Valve Pit 28 (VP28). Remediation activities continue at this site.

3. Wheeler Army Airfield and (4.) Gulch Runway Dump, Oahu

This has been Army property now for several years, with no USAF activity to report.

4. Kaena Point Satellite Tracking Station (STS), Oahu

At Kaena Point Satellite Tracking Station (STS), USAF completed draft documents during the year sufficient for DOH to subsequently issue decision letters concurring with the USAF's NFRAP decision for the following 3 locations within this installation: AOC EA04 Disposal Site Near Bldg 38, AOC EA07 Bldg 39 Drain Outfall, and AOC EA03 Cesspool.

5. Kaala Air Force Station (AFS), Oahu

At Kaala AFS, USAF completed draft documents during the year sufficient for DOH to subsequently issue decision letters concurring with the USAF's NFRAP decision for the following 5 locations at this installation: AOC EA01 Ethylene Glycol Disposal Area; SS05 Drum Rack Outfall Area, SS06 Soil Near Building 20, SS07 Northeast Disposal Site and SS09 Section of Kaala Bog.

6. Kokee AFS, Kauai

For Kokee AFS, USAF completed a draft document during the year sufficient for DOH to subsequently issue a decision letter concurring with the USAF's "No Further Remedial Action Planned" decision for the AOC EA02 Radar Shaft.

7. Underground Storage Tank (UST) Sites, Statewide

The USAF has finalized a removal plan for numerous UST's at over 40 sites base-wide. The concentration of contaminants of concern (COC's) were below risk-based action levels in both soils and water at about 30 of these sites; concentrations exceed action levels at approximately 10 of these sites.

2.3.1.4 Kaneohe Marine Corps. Base, Oahu

While a landfill and a fuel farm facility require further evaluation, work is not planned for the immediate future. At present, the Navy did not budget for any required work during the last fiscal year. The following is a list of planned cleanup activities.

1. Range Disposal Area, Assessment/Site Inspection (PA/SI), FY 2013
2. Fire Fighting Training Area, medium priority, Remedial Investigation/Feasibility Study (RI/FS), FY 2010
3. Ordinance Munitions Area, RI/FS, FY 2013
4. Fuel Farm Sludge Disposal, RI/FS, FY 2010
5. Above Ground Storage Tank (AST), RI/FS, FY 2006

2.3.2 Preliminary Assessment/Site Inspection (PA/SI) Site Summaries

The Preliminary Assessment/Site Inspection (PA/SI) Program within the HEER Office Site Discovery, Assessment and Remediation (SDAR) Section provides the basis for discovery, identification, and assessment for any contamination that has occurred in the state of Hawaii. The program's activities are supported by a cooperative agreement from EPA, and are consequently closely coordinated with the EPA.

Sites are identified by the notification process when a spill or release has occurred and once the immediate threat is abated, the site is transferred from the Emergency Response Section to the SDAR Section where the oversight process continues. Other possible means for identifying sites include categories of sites e.g., closed or abandoned sugar mills that are assessed for contaminants that were known or suspected to have been used. Recently, several sugar mills in the state have been identified and are being processed for PA/SI efforts.

1. Waialua Sugar Company, Waialua, Oahu

The Waialua Sugar Mill closed operations in October of 1996. The mill and power plant were dismantled and shipped to Indonesia. Remaining structures at the mill site have been converted to coffee production and/or leased to small businesses and to individual farmers for diversified agriculture. The apparent problems associated with the Waialua Sugar Mill site are as follows:

Several areas of the mill are being investigated because of practices during the period of operations. There is potential for soil and groundwater contamination due to runoff from former pesticide mixing and loading sites and from equipment maintenance facilities. Contamination may have occurred at an inland landing strip formerly used for aerial application of herbicides and pesticides. A former waste-water settling basins across Kealohanui Street from the mill complex may contain residues and other potentially

contamination. There are several areas with stained soil in the area of the vehicle maintenance building, particularly near lubricant storage tanks and leaking drums.

The Waialua Sugar Company produced much of their power by burning waste oil. The waste oil was stored in above ground storage tanks (ASTs) at the site. This area is targeted for sampling based on a potential for leaks to have occurred from the ASTs.

Further sampling is planned for October, 2003 as a result of samples that resulted in elevated levels (above the residential USEPA Region 9 preliminary remedial goals PRGs) of dioxin (1.68 and 2.02 µg/kg) and arsenic (323 mg/kg and 599 mg/kg).

2. Pioneer Mill Company, Lahaina, Maui

The Pioneer Mill Company, a wholly owned subsidiary of Amfac Corporation, ceased operations in September, 1999. The HEER Office is working with the Pioneer Mill Company's contractor in assessing the mill site for any hazardous material contamination from 150 years of sugar cane cultivation and processing. On a more immediate level, the HEER Office requested that dust control fences be erected along Mill Street and Kuhua Street, adjacent to the mill, to address resident's concerns of potentially contaminated soil blowing into their homes from the mill.

Sampling was conducted by EPA contractors in February, 2003 and a community meeting was held in conjunction with this effort. Results of the analyses show elevated levels of lead (Pb) in three locations and elevated level of arsenic (As) in one location. EPA reported that based on the result of this limited sampling the site does not pose a significant risk to human health and the environment, however, there is a need to further characterize the site to determine the full extent of contamination. DOH will oversee further work by Amfac for the site characterization, remediation and clean-up. Amfac has agreed to characterize the site, delineate the extent of contamination, cover the contaminated soil, and put warning signs around the mill to warn the public of the potential hazard and keep them from entering the area.

3. Kauai Agricultural Research Center Agent Orange, Kapaa, Kauai

Between 1967 and 1968, the University of Hawaii in collaboration with Department of Army (Fort Detrick, Frederick, Maryland), conducted an experiment to assess the defoliation effects of various pesticides, including Agent Orange, on jungle vegetation on Kauai. This site includes three areas of contamination: the drum disposal area; the actual spray sites located at Waikoko Block, Hanahanapuni; and the Sam Thronas area. The areas were applied with different rates of Agent Orange and PCP, respectively, that were applied singly or in combination with other herbicides. The DOH Solid and Hazardous Waste Branch (SHWB) is overseeing the removal and disposal of drums at the drum disposal area.

Soil sampling was conducted in September 2001 to determine if foliar application of various pesticides is affecting soils in the area. Given the concentrations of contaminants detected, it appears that no further CERCLA actions are warranted.

4. Kekaha Sugar Company, Ltd., Kekaha, Kauai

The site was divided into two areas; the Kekaha Herbicide Mixing Plant and Former Wood Treatment Plant and the Kekeha Sugar Mill.

a. Kekaha Herbicide Mixing Plant and Former Wood Treatment Plant:

The apparent problem of the site is the pesticide/herbicide contamination brought about by sugarcane productions and operations. These operations involved generation and storage of used oil, use of fungicide for wood treatment and seed treatment, accumulation of contaminated sediments in the settling pond, and the use of pesticides and herbicides in the mixing plant. Amfac Sugar Hawaii, Kauai, who owns Kekaha Sugar Company, Ltd. and Lihue Plantation Company, Ltd., hired Brewer Environmental Services (BES) to conduct clean-up and remediation of all areas of environmental concern. The BES Phase II Site Investigation from the analysis of the soil samples showed elevated levels of benzo(a)pyrene, benzo(a)anthracene, benzo(b) flouranthene, methylene chloride, and pentachlorophenol above the DOH-Tier I Action levels.

Soil sampling conducted by the HEER Office showed elevated levels of benzo(a)pyrene, arsenic (As) in the former wood treatment plant, elevated levels of dioxin, and As at the former herbicide mixing plant. The levels of benzo(a)pyrene, Arsenic and dioxin are above the USEPA Region 9 preliminary remedial goal (PRG) level for residential use. Based on HEER recommendation, Department of Land and Natural Resources (DLNR) placed warning signs around the contaminated area in August 2002 to warn the public of the hazard and restrict access to the site. DLNR is also working with environmental consultants to address the problem posed by uncontrolled dust and potential migration of soil due to runoff. HEER Office personnel reviewed and approved the proposal submitted by DLNR for the use of erosion control blanket to minimize soil erosion and exposure to dioxin in contaminated areas. A Site Inspection report is in progress.

b. Kekaha Sugar Mill:

The areas of potential sources of contamination in Kekaha Sugar Mill are the settling ponds, the seed dipping plant, the former transformer storage area inside the mill and other operations related to sugar cane production. The Environmental Company, Inc., the State of Hawaii environmental contractor was hired to conduct on-site sampling. The site scoping effort was conducted by EPA Region 9 personnel. The sampling effort is scheduled for July 2003 based on a revised plan.

5. Lihue Plantation Company Ltd., Lihue, Kauai

This site is similar to Kekaha Sugar Company,. Ltd. The apparent problem of the site is the contamination brought about by sugarcane production. There are four sources of contamination; the herbicide mixing plant located at Hanamaulu; the seed dipping plant; the settling pond and areas around the Lihue Sugar Mill. Analyses of soil samples collected by Brewer Environmental Inc. in the former herbicide mixing plant showed elevated levels of DDT, chlordane, heptachlor and arsenic. A site reconnaissance was

completed in July of 2003 to determine the sampling locations. A preliminary scoring was completed by DOH and reported to EPA.

6. Assessment of Sugar Mills along Hamakua Coast, Hawaii

A site reconnaissance effort was conducted in April 2003 at 11 former sugar mill sites along the Hamakua Coast on the Big Island. These sugar mill sites have been closed for more than 30 years. A sampling and analyses plan for 11 of these mills will be prepared to determine if these sites pose a threat to human health and the environment.

7. Ka'u Agribusiness Herbicide Mixing Plant, Kau, Hawaii

A document submitted to Hawaii Department of Health (DOH) regarding arsenic investigation at Ka'u Agribusiness herbicide Mixing plant was reviewed. The investigation report failed to address the potential dioxin contamination at the site. Further soil sampling is justified because samples collected from other former herbicide mixing plants in Hawaii have shown elevated levels of dioxins/furans above residential and industrial PRG. A letter was issued to Ka'u Agricultural Business requiring further investigation for dioxin/furans before any remedial activities or soil control measures are implemented. Brewer responded and will submit a work plan in the early part of October, 2003. Site owners were notified that a site reconnaissance effort is planned for FY 2004.

8. Ka'u Sugar Mill, Kau, Hawaii

The Ka'u Sugar Mill ended operations in March 1996. Most of the buildings were dismantled, and the PCB transformers were removed and shipped off to the mainland. The only buildings left on site are the warehouse, carpentry shop, and boiler room for the seed dip tank. Concrete foundations are all that remain of the other structures. The area where the hydro separator was located is now filled with soil, and an earth berm. There are two seed dipping tanks. A company from El Salvador bought most of the equipment.

The possible problems associated with the Ka'u Sugar Mill are as follows:

- a. Pesticide/herbicide contamination brought about by sugarcane production and operations, including onsite fertilizer storage and seed dipping tanks that may have impacted the soil throughout the Site
- b. Run-off of oils and solvents from vehicle maintenance and equipment, and
- c. Lead contamination from lead based paint along with lead and heavy metals from areas where used oil was stored.
- d. The transformers that were cleaned and removed contained PCBs.
- e. There are residents and workers within 200 feet of the mill.

The site owners were contacted and a site reconnaissance has been planned for FY 2004.

9. Puna Sugar Mill, Keau, Hawaii

The Puna Sugar Mill closed its operations in 1984. The land was divided into two parcels. Hawaii Electric and Light Company (HELCO) bought one half, and the other is currently owned by Puna Sugar Mill, LLC. Space in this second half is rented out to different people. Some of the mill structures remain onsite.

Apparent problems associated with the Puna Sugar Mill site include:

- a. The pesticide/herbicide contamination brought about by sugarcane production and operations.
- b. The unknown sludge leaking from an above ground storage tank installed after the mill closed down.
- c. Possible contamination of lead and heavy metals occurring in the soil from used oil runoff and structural paint.
- d. HELCO workers are currently employed within 200 feet of the former mill.
- e. Two drinking water wells are located on the HELCO parcel of the former mill.

The HEER office contacted the owner of the Puna Sugar Mill, LLC parcel, and a PA effort was initiated for a site reconnaissance.

10. Paia Sugar Mill, Paia, Maui

The Paia Sugar Mill closed its operations in September 2000. The warehouse and hydro separator have been dismantled. The rest of the sugar mill structures remain onsite, and include the mill, machine shop, cane truck shop, and boiling house. A Philippine based company bought and shipped some of the mill equipment to the Philippines. One tenant leases space in the machine shop. HC&S consolidated its sugar productions to its Puunene mill, where the cane seed dipping plant and pesticide storage operations were held for both mills.

Apparent problems associated with the Paia Sugar Mill site include:

- a. The petroleum contamination brought about by several fuel underground storage tanks (UST). Diesel, gasoline, and fuel oil #6 were some of the petroleum products used at the Paia sugar mill. There was a former service station located on the site.
- b. There is a transformer yard near the warehouse. Currently there are no records that the transformers contained PCB's, though no testing has been performed.
- c. Contamination of lead, heavy metals, and solvent may occur in the soil from used oil runoff.
- d. Residents, workers, and a school are located within one-quarter mile of the former Paia Sugar Mill, but greater than 200 feet.

- e. Paia Bay, which opens into the Pacific Ocean, is approximately one mile down gradient from the former Paia Sugar Mill.
- f. Paia Bay is a habitat for endangered animals as well as the Pacific Ocean, which is considered a fishery.

A site reconnaissance was conducted in April 2003. A PA is in progress with a sampling and analysis plan to be completed.

11. Wailua Homestead Wells, Kapaa, Kauai

In 1999, mercury (Hg) was detected in Well A and Well B at the Wailua Homestead Wells in Kauai due to the Hg used in the pumps. The pumps were removed individually and placed on tarps on the ground adjacent to the wells. Hg leaked into the soil during the removal of the pumps. Brewer Environmental Systems was contracted to delineate the soil contamination around the two wells and the temporary pump storage area. Contaminated soil was excavated. The wells were put back in service, putting them through a granulated activated carbon GAC treatment facility. The HEER office contacted the Kauai Department of Water to discuss the Hg contamination found along the site boundaries. A sampling plan to delineate further contamination in the soil around the site, near the outfall and ditch was suggested to the Kauai officials.

12. Kapaa Landfill, Kailua Oahu

The Kapaa Landfill is comprised of an active landfill area located adjacent to an abandoned basalt quarry, two inactive landfills located adjacent to and within the Kawainui Marsh, and a quarry waste site within Kawainui Marsh. The Kawainui Marsh covers more than 300 hectares and provides habitat to four federally listed endangered species. Groundwater depth ranges from 0.3 meters - 30 meters below the ground surface (bgs) and flows in an east to northeast direction, discharging from the landfill areas into Kawainui Marsh. It is not known if hazardous materials were deposited at the landfills. Available data for the site indicate levels of copper and zinc above their respective ambient water quality criteria (AWQC).

A field sampling was conducted in August 2001 to determine if leachate from the landfill is adversely impacting the marsh. Sediment and surface water samples were collected from the Kawainui Marsh and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides/PCBs, and metals. Analytical data for groundwater and leachate samples collected for landfill monitoring requirements will be reviewed to assess the likelihood of the landfill as the contaminant source. As such, sediment and surface water samples were also analyzed for various general chemistry parameters to facilitate this comparison. A field sampling for wet season is scheduled in January 2004.

13. Kahului, Kanaha Pond Industrial Sites (East & West), Maui

The HEER Office completed sampling in the East Pond and West Pond sites as of August 2003. The subsequent report is being reviewed by the U.S. EPA Region 9 Superfund Office.

14. Pearl City Waiawa Gulch, Pearl City, Oahu

The Waiawa Gulch was evaluated by the HEER Office using EPA's federal hazard ranking system and site investigation criteria. Lead was detected at a concentration of 4,371 mg/kg in a soil sample collected from the bank of Waiawa Stream, near a drainage outfall connected to a wash rack at the facility, a possible source of contamination in the area. An ecologist-microbiologist from EPA Region IX and HEER Office personnel conducted a site visit and stream walk in Waiawa Gulch in July 1998. Observations made during the stream walk indicate a reduction in aquatic macro fauna biodiversity. Site inspection (SI) sampling of surface water and sediments was conducted in December 2000.

Samples were analyzed for metals, semi-volatile organic compounds (SVOCs), PCBs (sediment only), and total petroleum hydrocarbons as diesel and motor oil (TPH-D and TPH-O, respectively). Analytical results indicate the presence of chromium and nickel at concentrations just above sediment screening criteria values. A few SVOCs were detected in the sediments of the stream near an auto recycling facility and the Hawaii Army National Guard (HIARNG). However, none of the concentrations exceeded the respective Permissible Exposure Limits (PELs), which are the higher of the sediment screening criteria values. Surface water analytical results indicate the presence of chromium and lead in one sample and possibly silver in another; no SVOCs were detected. TPH-O was detected in most of the sediment and surface water samples, particularly downstream of the auto recycling facility and HIARNG. Given the concentrations detected, it appears that no further CERCLA actions are warranted. However, data will be forwarded to the Clean Water Branch (CWB) of the Department of Health for their use. The SI report is scheduled to be submitted in the third quarter of 2004.

2.3.3 Remedial Response and/or Remediation on State Listed Sites

The HEER Office Site Discovery, Assessment, and Remediation (SDAR) Section has oversight responsibility for all sites identified through the spill/release notification system after an initial emergency response activity is completed. This section provides an overview of remedial response and/or remediation activities being performed on State listed sites.

1. Honolulu Harbor, Oahu

The consortium of responsibilities parties, the Iwilei District Participating Parties (IDPP) have been conducting site assessment and response actions generally in the area of the Honolulu Harbor and in particular in the Iwilei District (District). These voluntary efforts have proceeded under the Environmental Response Agreement (ERA) (signed February 1, 2001) between the Iwilei District Participating Parties (IDPP) and the State of Hawaii Department of Health (DOH), Hazard Evaluation and Emergency Response Office (HEER). The ERA provides for site assessment work, response actions and remediation to address the effects of petroleum hydrocarbon releases in the Iwilei District under the Hawaii Environmental Response Law (Chapter 128 D, HRS, SCP, HAR 11-451). The IDPP group participants include:

- a. BHP Hawaii, Inc.,
- b. Castle & Cooke Properties, Inc.,
- c. Chevron U.S.A. Inc.,
- d. City Mill Company,
- e. DIL Trust,
- f. Hawaiian Electric Company, Inc.,
- g. Phillips Petroleum Company,
- h. Equilon Enterprises LLC dba Shell Oil Products U.S.,
- i. State of Hawaii Department of Transportation, Harbors Division,
- j. Texaco Downstream Properties, Inc.,
- k. Tosco Corporation,
- l. Union Oil Company of California,
- m. The Harry and Jeanette Weinberg Foundation (pending).

The scope of the oil contamination problem includes Iwilei, Kapalama , Sand Island and Downtown Districts as well as harbors and facilities on outer islands of the State that makes this project one of the largest, if not the largest ever confronting the DOH HEER Office. The Iwilei District covers approximately 315 acres. It contains 187 individual land parcels, with land uses ranging from industrial to commercial and does not include any residences or schools. The District includes major road systems, including the Nimitz Highway, and port facilities. The initial Honolulu Harbor effort was principally an emergency response. Because of the magnitude of the problem, Region 9 EPA On Scene Coordinators were involved with the initial response actions assisted by the HEER Office. Once the emergency nature of the problem was satisfied, the HEER Office personnel assumed direct control of the site and continue to direct occasional release incidences and the remediation efforts.

The association of the Iwilei District Participating Parties (IDPP) and the HEER Office immediately started cooperating and the IDPP produced a Scope of Work (SOW) that describes requirements for short-term responses, long-term remediation, and overall planning. The group submitted to DOH a Site Assessment and Prioritization (SAP) Report that provides the basis for planning and implementing environmental response actions in the first unit, the Iwilei District. The Iwilei District Participating Parties (IDPP) is conducting ongoing environmental response actions, including monitoring, subsurface barriers and hydrocarbon product and soil vapor extraction systems. The scope of the IDPP efforts suggest a considerable budget supports their proactive actions at this time. As part of the ERA, the IDPP has been supporting the DOH personnel time and effort at the rate of \$30,000 per quarter in reimbursable funds.

The IDPP has taken the lead to initiate efforts that include the division of the Iwilei District into three operable units (OUs) and to describe the steps needed to evaluate the necessary long-term remediation activities. The level of effort for this work is coordinated principally by the IDPP with DOH oversight. DOH, however, could not plan, organize, and maintain this level of effort without the IDPP cooperation with our present staffing. The IDPP has consistently exhibited a cooperative working relationship by providing the necessary contractors and budget to have an impact. Their overall planning routinely adheres to the DOH Technical Guidance Manual (TGM) in delineating the OUs based on risk prioritization of the different areas of the Iwilei District. Each OU incorporates different groups of parties with individual as well as joint liabilities for site assessment and remediation. This coordination effort would be a difficult problem for DOH to accomplish without the IDPP cooperation and participation. Both the IDPP and individual facility owners have undertaken response actions aimed at the removal of separate phase hydrocarbons or preventing its migration into Honolulu Harbor. While not all of these actions were emergencies, these activities are generally consistent with the emergency response assessment process in the HEER Office Technical Guidance Manual TGM. Concurrent with the response actions, site assessment activities have been conducted to further evaluate and define the extent of petroleum hydrocarbons in the District.

2. GASCO, Honolulu, Oahu

The former Gas Company site is located on a four-acre parcel in Iwilei, which is a part of the Honolulu Harbor district. The Gas Company processed heavy petroleum hydrocarbons to produce gas for domestic and industrial use on the island of Oahu from 1904-1988. The soil and groundwater at the site contains elevated levels of benzene and other petroleum products. Proposed cleanup technologies at the site include soil vapor extraction, in-situ air sparging/bio-sparging and the introduction of oxygen to enhance biodegradation. Cleanup and monitoring at the site is expected to continue for several years.

3. Kapalama Incinerator, Honolulu, Oahu

Lead is the primary contaminant in soil at 757 Kōkea Street in Honolulu, where the former Kapālama Incinerator operated from the 1940s to the 1970s. The City & County of Honolulu has completed an investigation of the extent of contamination on the incinerator property and is presently procuring a contractor to excavate and dispose of contaminated soil. The HEER Office is providing oversight for the cleanup.

4. Pukoloa Wood Treating, a.k.a. Servco (2481 Pukoloa Street), Oahu

Arsenic, chromium, pentachlorophenol, and dioxins are present at 2841 Pūkōloa Street in Honolulu. The contamination appears to have resulted from past practices of a wood treating company located at the site from the 1960s to the 1980s. The Remedial Investigation report for the site is under development and should be completed in late 2003.

5. Pahounui DP LLC (formerly the Flynn-Learner site), Oahu

The DOH approved the Remedial Investigation and Remedial Alternatives Analysis for the Pahounui DP LLC. site in December 2002. DOH prepared a draft Remedial Action Memorandum in which the tentatively proposed remedy is capping. A public notice of the draft remedial action memorandum RAM was published in June 2003 and remediation is presently underway.

6. Aiea Stream, Aiea, Oahu

In March 2003, DOH directed Alexander & Baldwin to conduct sampling in and along Aiea Stream downstream of the old Aiea Sugar Mill. Elevated levels of lead were found in a vegetable garden plot near the streambed. Neighboring residents were informed of the results and advised to avoid contact with streambed soils and to avoid consuming vegetables grown in the streambed area. Additional investigations are planned.

7. Del Monte, Kunia, Oahu

EPA finalized the Remedial Investigation/Feasibility Study (RI/FS) for the Del Monte National Priority List (NPL) site, drafted a Record of Decision for the site, and held a public meeting in June 2003 to receive public comments on the draft Record of Decision (ROD).

8. Ewa Pesticide Mixing/Loading Area, Ewa, Oahu

DOH agreed with a proposal by Department of Land and Natural Resources (DLNR), the landowner, to install fugitive dust and erosion control measures at the site.

2.3.4 Voluntary Cleanup Program (VCP) and Brownfields (BF) Program

The EPA Superfund Voluntary Cleanup Program (VCP)/Brownfields (BF) Program grant funding supports two State of Hawaii cleanup programs: The Voluntary Response Program (VRP) and the Brownfields (BF) Program. A summary of activities for the two programs is presented in the following sections.

2.3.4.1 Voluntary Response Program (VRP) Site Summaries

The Voluntary Response Program (VRP) encourages voluntary cleanup of contaminated properties. Under the law, DOH has the authority to grant prospective purchasers or developers an exemption from future liability if cleanup is performed to DOH specifications under the program. Past, current, or future property owners can participate in this program, but exemptions from liability can only be given to future purchasers or tenants. Completion of the voluntary cleanup action is accompanied by a Letter of Completion, issued by the Department of Health and noted on the property deed. Over the past year, Letters of Completion have been issued to Castle and Cooke, Ross Trust, and Aiea Sugar Mill.

Over the past fiscal year the number of VRP sites was increased from eleven to thirteen projects, with more applications expected as the economic outlook improves within the State. The following sites have signed a voluntary response agreement with the DOH and are paying the State for DOH oversight of their remedial activities.:

1. **Costco, Iwilei, Oahu**

Costco entered the VRP Program in June 2001. The site is being remediated in two phases; 1) the warehouse site and 2) the gas station site. The warehouse site has completed remediation and is in a groundwater monitoring program. The gas station site is presently in the site characterization stage.

2. **Keeau Village Inn, W.H. Shipman, Ltd., Keeau, Hawaii**

Entered the VRP in August 2003 to investigate a property for development of a motel.

3. **283 Waiehu Beach Road, Wailuku, Maui**

An 11,250 square foot site owned by Eugene Yee, formerly used by Maui Terminex International as a pest control operation base yard and office: Removal action completed, DOH is awaiting the confirmation sampling report.

4. **Maui Corn Mill Camp, Pukalani, Maui**

Maui Land and Pineapple entered the VRP in August 2003 to investigate a property for commercial development.

5. **1230 Kapiolani Boulevard, Oahu**

A 6.2-acre site owned by Evershine X, a limited partnership, on the corner of Kapiolani Boulevard and Piikoi Street. The investigation is currently underway.

6. **A&B Properties (A&B Milltown) , Inc. Waipahu, Oahu**

A 40-acre industrial subdivision part of former Oahu Sugar Mill, Waipahu, Oahu. Currently evaluating alternatives for addressing contamination at the property.

7. **819 Moowaa Street, Kapalama, Oahu**

A one and one-half acre tract owned by Ross Trusts: Letter of Completion issued August 2002.

8. **825 Kapiolani Boulevard, Oahu**

A 0.9-acre site owned by LSDM Properties, LLC next to Flamingo Restaurant: The public participation phase is complete and the Letter of Completion is being drafted (October, 2003).

9. 120 Sand Island Access Road, Oahu

This is a project proceeding under ownership of "Pahounui LLC." It is a 3-acre site formerly used by Flynn-Learner as a recycling and scrap metal facility. The investigation and public participation phases are complete and the remedial action has been initiated (September 30, 2003).

10. Castle and Cooke Homes Managers Drive Project, Waipahu, Oahu

A 38-acre residential development on a site next to the Waipahu Sugar Mill formerly used for sugar cane cultivation and plantation residences. Cleanup is complete and a Letter of Completion (LOC) was issued July 2002.

11. Bank of Hawaii Former Aiea Sugar Mill, Aiea, Oahu

A 15.6-acre site that was formerly the Aiea Sugar Mill site is being remediated in three phases. Phase I Letter of Completion issued November 2002. Phase II and Phase III remedial work plans will be reviewed (September 2003).

12. Bank of Hawaii, Komohana Park, Kapolei, Oahu

Campbell Industrial Park project is presently on hold due to changes in ownership.

13. Town Inn, K-Green Corporation, Honolulu, Oahu

Joined the Voluntary Response Program (VRP) in December 2002. The removal action is about commence.

14. Home Depot, Iwilei, Oahu

Received a Letter of Completion in 1999. Monitoring of water and gas continue as required.

2.3.4.2 Brownfields (BF) Program Site Summaries

The Brownfields Program supports , through grants, the assessment and eventual cleanup of contaminated sites for commercial development. During FY 2003, the DOH HEER Office continued focusing on the promotion and coordination of a comprehensive Hawaii State Brownfields Initiative in coordination with EPA Region IX and Department of Business, Economic Development and Tourism (DBEDT). The HEER Office has been assisting DBEDT with its work under a USEPA Brownfields Pilot Demonstration Grant by conducting three environmental site assessments at high priority state-owned Brownfields properties. The projects are for: 1) a mixed-use development in Anahola, Kauai, 2) a senior residential project by Housing and Community Development Corporation of Hawaii (HCDCH) in Iwilei, and 3) a potential re-development at the u Kuhio Park Terrace housing complex. A brief summary of the Brownfields site work is presented as follows:

1. Anahola Project Faith, Kauai

The Anahola Homesteaders Council received an environmental assessment under the Brownfields Program. The site is slated for use as a multi-purpose facility consisting of commercial, cultural, educational, and health care and kupuna housing components. The site was formerly agricultural land used in the production of sugar cane. As a result of these activities, potential pesticide and metal soil contamination are the primary environmental concerns for the site. A Phase I and Phase II investigation is planned for this site. The sampling and analysis plan (SAP) was approved and completed in June 2003 and sampling was completed in July 2003. The final targeted site assessment report will be completed before the end of 2003.

2. Iwilei Project Site, Oahu

Housing and Community Development Corporation of Hawaii (HCDCH) and Department of Accounting Services (DAGS) received an environmental assessment from Department of Business, Economic Development and Tourism (DBEDT) on a property located at the corner of North King Street and Iwilei Road. The sampling event was completed in July 2003 and the analysis of the data is underway.

3. Kuhio Park Terrace, Oahu

The Housing and Community Development Corporation of Hawaii (HCDCH) received an environmental assessment from DBEDT for Kuhio Park Terrace, a public housing community. Elevated levels of dieldrin from application of pesticides were detected. HCDCH is applying for funds in HUD HOPE VI for the revitalization of Kuhio Park Terrace. The revitalization will replace the 641-unit project with a mixture of low and mid-rise apartments and single-family dwellings. A Preliminary Assessment was completed in June 2003. The SAP is in progress, however, DBEDT decided to temporarily delay the actual sampling event until the further planning of the revitalization program is completed.

4. Additional Sites

DOH is continuing to provide assistance to Hawaii Community Development Authority (HCDA) under a Brownfields Grant from USEPA. The DOH and EPA are presently reviewing previous sampling efforts at the Kaka'ako Unit 8 site to determine the data gaps that exist and how to fill them. The goal is to determine what environmental remediation is necessary to develop the property. USEPA will provide additional support for DOH to complete the environmental evaluations.

3 STATE PRIORITY LIST

3.1 HEER Office State Priority List

Chapter 128D, HRS, requires that the department publish a list of the sites with releases of hazardous substances for which the department has identified a responsible party, and the responsible party is in compliance, as determined by the department, with an order issued, or an enforceable agreement entered into. Chapter 128D also requires that sites eligible for remedial action under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) be identified, including a statement as to any appropriation that may be necessary to pay the State's share of the plan.

All of the site/facilities listed in the following sections have voluntarily entered into agreements to conduct site work such as preliminary assessment, site inspection, removal, or remedial action. Furthermore, the cost for investigation and/or cleanup of the sites is being assumed by the owner/operators of the sites.

The majority of cleanup sites on the State Priority List are identified through the spill/release "notification system" defined by the State Contingency Plan which requires that all spills and releases, both Comprehensive Environmental Response Compensation and Liability Act (CERCLA) and non-CERCLA eligible (i.e. oil contaminated), are reported to the DOH. All reported spill/release sites are potential candidates for the State Site List. The remainder of sites identified are from referrals by other programs and the HEER Office's site discovery process.

The Environmental Health Administration Hazard Evaluation and Emergency Response Office Site List presented in Appendix A lists all of the sites through FY 2003 that have been determined by the HEER Office to need further assessment and possible removal or remedial action. These sites have gone through the Initial Site Screening Team (ISST) prioritization process based upon the criteria in the Hawaii State Contingency Plan, Chapter 11-451, Hawaii Administrative Rules. These sites have been determined to be high, medium, or low priority and are actively being worked on, or they will be addressed in the future.

3.1.1 Initial Site Screening Team (ISST) Site Prioritization

The Initial Site Screening Team (ISST), composed of members of the Site Discovery, Assessment and Remediation (SDAR) Section, has been screening suspected contaminated sites for the last six years. The ISST screening is one tool used by staff in the HEER Office to determine the potential risk to public health, and welfare, and environment, including natural resource damages, that may be posed by contamination or associated with exposure to the contamination.

Knowing the cleanup priority and complexity of the contamination aids staff in their determining the most appropriate and applicable cleanup technologies. Every site that comes to the ISST is screened and assigned a priority of either high, medium, low. A determination that, no further action (NFA) is necessary, may also be a decision made by the ISST.

Potential Responsible Parties (PRPs) connected with contaminated sites are notified by letter reporting the priority ranking of their sites. Sites eligible for further investigation under the CERCLA are assigned to personnel in the Preliminary Assessment/Site Inspection (PA/SI) group. Sites that are ranked medium or high priority by the ISST may be assigned to a State Remedial Project Manager (RPM). Low priority sites generally do not have site managers assigned to them at this time. However, sites that are ineligible under CERCLA may still be eligible for assessment under the State program. In addition, sites could be further evaluated by the Voluntary Response or Brownfields programs.

During FY 2003, the ISST completed the screening of seven sites with the following prioritizations: 0-high priority sites; 3-medium priority sites; 50-low priority sites; and 4-no further action (NFA) sites.

3.1.2 Hawaii Sites Listed on the Federal National Priority List (NPL)

There are currently three sites in Hawaii listed on EPA's National Priority List (NPL) for cleanup. Schofield Barracks, the fourth site, was de-listed on August 10, 2000.

1. Del Monte, Kunia, Oahu
2. Naval Computer and Telecommunication Area Master Station (NCTAMS), Oahu
3. Pearl Harbor Naval Complex, Oahu

3.1.3 Hawaii Sites Eligible under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

The following is a list of sites on the State Priority List that may be eligible for possible listing under CERCLA. Once a site has been identified as a CERCLA site, it may be added to the National Priority List and the EPA may manage the cleanup. Cleanup for sites listed below is currently being managed by the HEER Office Preliminary Assessment/Site Inspection (PA/SI) Program portion of the Site Discovery, Assessment and Remediation (SDAR) Section.

1. Ewa/Oahu Sugar Co., Waipio Peninsula (part of the Pearl Harbor NPL site), Oahu
1. Hamakua Coast, Assessment of Sugar Mills, Hawaii
2. Ka'u Agribusiness Herbicide Mixing Plant, Kau, Hawaii
3. Ka'u Sugar Mill, Kau, Hawaii
4. Kapaa Landfill, Kailua, Oahu
5. Kapaa Landfill, Kailua, Oahu
6. Kauai Agricultural Research Center-Agent Orange, Kapaa, Kauai

7. Kekaha Sugar Co. Ltd., Kekaha, Kauai
 - a. Kekaha Herbicide Mixing Plant and Former Wood Treatment Plant
 - b. Kekaha Sugar Mill
8. Lihue Plantation Company Ltd., Lihue, Kauai
9. Paia Sugar Mill, Maui
10. Pearl City, Waiawa Gulch, Pearl City, Oahu
11. Pioneer Mill Company, Lahaina, Maui
12. Puna Sugar Mill, Keau, Hawaii
13. Waialua Sugar Company, Waialua, Oahu
14. Wailua Homestead Wells, Kapaa, Kauai

3.1.4 State Listed Remedial Response and/or Remediation Sites

The following is a list of remedial response and/or remediation sites that have no imminent and substantial threat to human health and/or the environment. The cleanup of these sites is being managed by the Remedial Response Program of the HEER Office SDAR Section.

1. Aiea Stream, Aiea, Oahu
2. Del Monte, Kunia, Oahu
3. Ewa Pesticide Mixing/Loading Area, Ewa, Oahu
4. GASCO, Honolulu, Oahu
5. Honolulu Harbor, Oahu
6. Kapalama Incinerator, Honolulu, Oahu
7. Pahounui DP LLC (formerly the Flynn-Learner site), Honolulu, Oahu
8. Pukoloa Wood Treating, a.k.a. Servco (2481 Pukoloa Street), Honolulu, Oahu

3.1.5 Voluntary Response Program (VRP) Site List

The Voluntary Response Program (VRP) allows property owners and prospective purchasers to undertake a voluntary remedial action under the oversight of the Department of Health. At the completion of the response action, the DOH issues a Letter of Completion that exempts prospective purchasers and future owner/tenants from liability related to the contaminants addressed in the voluntary action. The applicant pays the DOH oversight fees as part of the review and approval of the voluntary actions. There are currently thirteen projects active in the VRP.

1. 120 Sand Island Access Road, Honolulu, Oahu
2. 283 Waiehu Beach Road, Wailuku, Maui
3. 819 Moowaa Street, Kapalama, Oahu
4. 825 Kapiolani Boulevard, Honolulu, Oahu
5. 1230 Kapiolani Boulevard, Honolulu, Oahu
6. A&B Properties, Inc., (A&B Milltown), Waipahu, Oahu
7. Bank of Hawaii Former Aiea Sugar Mill, Aiea, Oahu
8. Bank of Hawaii, Komohana Park, Kapolei, Oahu
9. Costco, Iwilei, Oahu
10. Home Depot, Iwilei, Oahu
11. Town Inn, K-Green Corporation, Honolulu, Oahu
12. Maui Corn Mill Camp, Pukalani, Maui
13. Keeau Village Inn, W.H. Shipman, Ltd., Keeau, Hawaii

3.1.6 Brownfields (BF) Redevelopment Program Site List

The DOH, through funding provided by the Environmental Protection Agency, Region 9 (EPA) provides no-cost, environmental site assessments to qualified public or non-profit community organizations. This process focuses on projects that have firm redevelopment plans and can demonstrate a strong commitment to facilitating the redevelopment. The list of Brownfields targeted site assessment projects is as follows.

1. Anahola Project Faith, Kauai
2. Iwilei Project Site, Oahu
3. Kaka'ako Unit 8, Oahu
4. Kuhio Park Terrace, Oahu

3.1.7 Defense/State Memorandum of Agreement (DSMOA) Site List

The HEER Office continues to provide oversight to all military site cleanups through the Department of Defense/State Memorandum of Agreement (DSMOA) grant. The military installations listed below are covered by the agreement.

Army Installations

1. Kunia Military Reservation, Oahu
2. Fort Shafter, Oahu
3. Schofield Barracks, Oahu
4. Tripler Army Medical Center, Oahu

Navy Installations

1. Barbers Point Naval Air Station, Oahu
2. Camp Smith, Oahu
3. Pacific Missile Range Facility, Kauai
4. Pearl Harbor Fleet Industrial Supply Center, Oahu
5. Lualualei Naval Magazine, Oahu
6. Pearl Harbor Naval Public Works Center, Oahu

7. Pearl Harbor Naval Shipyard, Oahu
8. Pearl Harbor Naval Station, Oahu

Air Force Installations

1. Bellows Air Force Station, Oahu
2. Hickam AFB, Oahu
3. Hickam POL Pipeline and Storage Area, Oahu
4. Kaala Air Force Station, Oahu
5. Kaena Point Satellite Tracking Station, Oahu
6. Kokee Air Force Station, Oahu
7. Wheeler Army Airfield, Oahu

Formerly Used Defense Sites

1. Heeia Combat Training Camp, Heeia, Oahu
2. Maui Airport, Puunene, Maui
3. Molokai Punakua Bombing and Papohaku Ranchland Target Areas, Molokai
4. Wiakoloa Maneuver Area, Waikoloa, Hawaii

3.2 Department of Health Release Notification Log

The Environmental Health Administration Hazard Evaluation and Emergency Response Office Release Notification Log presented in Appendix B contains a listing of all release notifications received during the fiscal year

During FY 2003, the HEER Office received 403 notifications of which 358 were directly concerned with the release of hazardous chemicals or oil spills. Of the 358 notifications reported, 71 required a site visit by a State On-Scene-Coordinator (SOSC) and/or a major off-scene coordination and response effort. Many of these notifications were for small spills that were resolved in less than one day.

4 HEER OFFICE BUDGET AND EXPENDITURES

This section presents the FY 2003 HEER Office report on budget and expenditures. The report includes the funding allocated in State Environmental Response Revolving Fund (ERRF) as well as the combined total operating budget in State General Funds appropriations and Federal funding allocations.

The federal fund data presented in this section have been adjusted to coincide with the State fiscal year as reflected in the Annual Operating Budget and the Financial Accounting Management Information System FAMIS Expenditure Report. The State FY 2003 extends from July 1, 2002 to June 30, 2003, while the Federal FY 2003 extends from October 1, 2002 to September 30, 2003.

4.1 HEER Office Budget Summary

The State FY 2003 combined total budget for both the State and Federal funding for the HEER Office was \$4,088,424.

During the State FY 2003, \$330,691 was appropriated in the State general fund budget for operations of the Emergency Preparedness and Response and the Hazard Evaluation sections of the HEER Office. The Emergency Preparedness and Response and the Hazard Evaluation sections of the HEER Office functions are concerned with hazardous materials, emergency responses and the assessment of chemical exposures on human health and are vitally important in protecting Hawaii's environment. These functions cannot be funded with the federal grant dollars currently received by the office.

In addition, the HEER Office had an operating allocation of \$2,848,450 from the State ERRF during State FY 2003. The HEER Office utilized the ERRF for two primary purposes: response and operations. The response budget of \$1,094,000 was primarily allocated for emergency response and the remedial contract services, which supplement its response capacity.

The operations budget of \$1,754,450 was allocated to conduct oil spill cleanups, enforce Chapter 128D, HRS, and fund the counties' used oil recycling programs. Funding for the recycling programs, though budgeted in the HEER Office, is managed and overseen by staff in the Solid and Hazardous Waste Branch (SHWB). The operating budget also funds equipment purchases and all HEER personnel funded by the ERRF.

In addition, the HEER Office received an operating allocation for four federal grants totaling \$909,283. Three of the grants were from the U.S. Environmental Protection Agency and one from the U.S. Department of Defense. These grants were very specific as to their designated usage and wherever possible, the Office utilized federal grant funds in lieu of state funds.

Chart 1 HEER Office Budget FY 2003

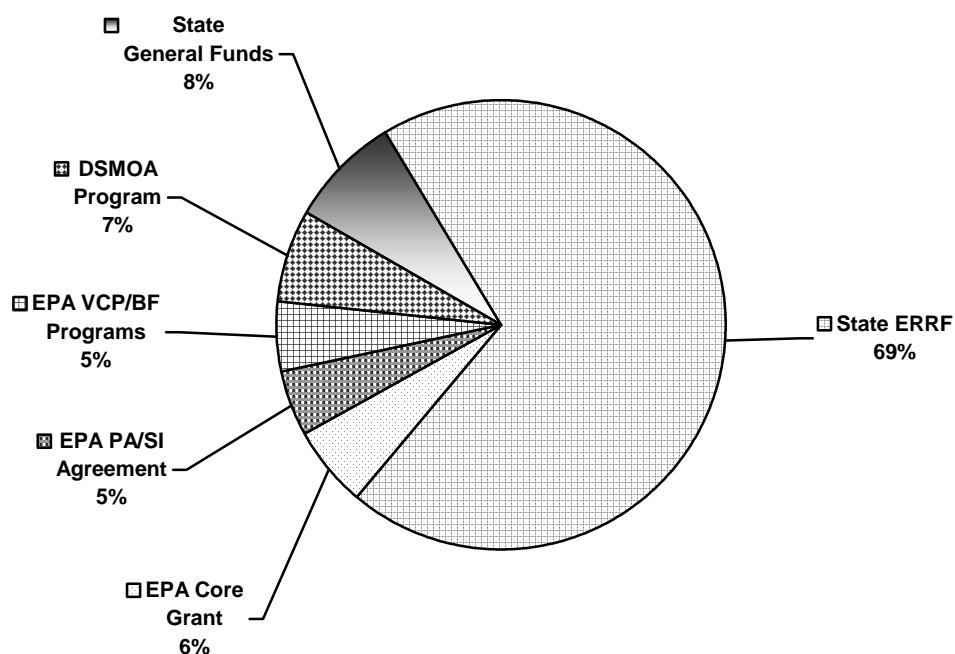


Table 1 FY 2003 HEER Office Funding Source and Budget

Funding Source	Budgeted FY 2003
1. State General Funds	330,691
2. State Revolving Funds (ERRF)	2,848,450
3. EPA Superfund Core Grant	244,000
4. EPA Superfund Preliminary Assessment/Site Inspection(PA/SI) Cooperative Agreement	189,000
5. EPA Superfund Voluntary Cleanup/Brownfields (VCP/BF) Programs	204,444
6. DOD/State Memorandum of Agreement (DSMOA) Program	271,839
TOTAL STATE AND FEDERAL BUDGET:	\$4,088,424

4.2 HEER Office Expenditures Summary

The HEER Office expended \$2,326,621 appropriated for the FY 2003 operating budget.

A total of \$358,518 in State General Funds was expended by the HEER Office, exceeding the \$330,691 budgeted for State FY 2003. Expenditures from the budgeted General Funds were vital for hazard evaluation, preparedness, and emergency response operations in the HEER Office. Chapter 128D, Environmental Response Law, established four SOSCs, funded with General Funds, located in the HEER Office, who have delegated authority under the Director of Health to act on behalf of the Governor to protect Hawaii's human health, welfare and environment. These functions cannot be funded with the federal grant dollars currently received by the office.

The HEER Office expended \$1,357,601 from the ERRF during State FY 2003. The HEER Office utilized the ERRF for four purposes: operations; response; personnel, and equipment purchases. The operations expenditure of \$375,335 was used to conduct oil spill cleanups; enforce Chapter 128D, HRS; and fund the counties' used oil recycling programs. The response expenditures of \$431,719 were used to conduct responses to releases or threats of releases of hazardous substances. The personnel expenditure was \$522,905.

The HEER Office expended \$610,502 of the \$909,283 Federal grants operating allocations during FY 2003: Superfund Core (\$242,488); Superfund Preliminary Investigation/Site Inspection (PA/SI) Cooperative Agreement (\$161,591); Superfund Voluntary Cleanup (VCP) and Brownfields (BF) Programs (\$106,740); and DOD/State Memorandum of Agreement (DSMOA) Program (\$99,683). The U.S. Environmental Protection Agency, Region IX provided the first three grants for the HEER Office and the fourth grant came from the U.S. Department of Defense. These grants were very specific as to their designated usage; however, wherever appropriate, the Office attempted to use federal grant funds in lieu of state funding.

Chart 2 HEER Office Budget and Expenditures FY 2003

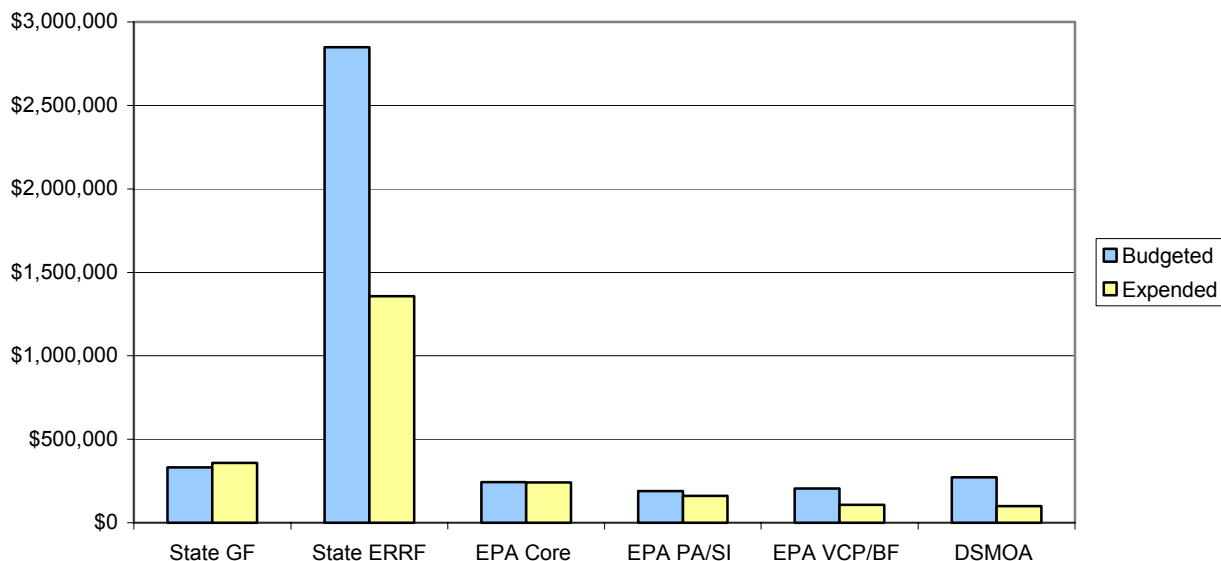


Table 2 FY 2003 HEER Office Funding Source and Expenditures

Funding Source	Expenditures FY 2003
1. State General Funds	358,518
2. State Revolving Funds (ERRF)	1,357,601
3. EPA Superfund Core Grant	242,488
4. EPA Superfund Preliminary Assessment/Site Inspection(PA/SI) Cooperative Agreement	161,591
5. EPA Superfund Voluntary Cleanup/Brownfields (VCP/BF) Programs	106,740
6. DOD/State Memorandum of Agreement (DSMOA) Program	99,683
TOTAL STATE AND FEDERAL EXPENDITURES:	\$2,326,621

4.3 HEER Office Funding

4.3.1 HEER Office General Funds

General funds support the HEER Office Hazard Evaluation Section, as well as the Emergency Response and Preparedness Section. These functions are vitally important in protecting Hawaii's environment as these sections are concerned with hazardous materials, emergency responses and the assessment of chemical exposures on human health. These functions cannot be funded with the federal grant dollars currently received by the office.

Table 3 HEER Office General Funds

			<u>Budgeted FY 2003</u>	<u>Expended FY 2003</u>
A Funds	1	Office Manager		
	1	Epi Specialist IV, SR 22		
	4	Env. Health Spc. IV, SR 22		
	1	Env. Health Spc. III, SR 20		
	1	Clerk Typist, SR 8		
	8	Subtotal	279,173	340,998
B&C Funds			51,518	17,520
TOTAL GENERAL FUNDS:			\$330,691	\$358,518

4.3.2 HEER Office Environmental Response Revolving Funds

The Hazard Evaluation and Emergency Response (HEER) Office provides state leadership in addressing all aspects of releases of hazardous substances into the environment. This work includes preventing, planning for, and responding to hazardous substance and oil releases, or risk of releases. The office is comprised of three operating sections, each addressing an important aspect of its mission: 1) Emergency Preparedness and Response; 2) Site Discovery, Assessment and Remediation; and 3) Hazard Evaluation. The office works closely with State Civil Defense, first responders and other federal, state, county and local agencies to strengthen the state's ability to respond to public health and environmental health emergencies.

The three HEER Office sections utilized the ERRF for four purposes: operations; response; personnel, and equipment purchases.

Table 4 HEER Office Environmental Response Revolving Funds

			<u>Budgeted FY 2003</u>	<u>Expended FY 2003</u>
A Funds	1	Epi Specialist III, SR 20		
	2	Env. Health Spc. V, SR 24		
	1	Clerk Typist II, SR 08		
	5	Env Hlth Spc. IV, SR 22		
	1	Toxicologist I, SR 26		
Temporary	1	Toxicologist I, SR 26		
Temporary	1	Eco Risk Assessor, SR 26		
Temporary	2	Voluntary Cleanup Spc, SR22		
	4	10	Subtotal	698,037
				522,905
B Funds		Response	1,094,000	431,431
		Operations	1,056,413	363,677
		Subtotal	2,150,413	795,108
C Funds			-0-	27,642
		TOTAL HEER:	\$2,848,450	\$1,345,655

4.3.3 HEER Office Federal Funds

The Federal fund data presented in this section are adjusted to coincide with the State fiscal year (July 1 through June 30). The expenditures for Federal grants are derived based on the State fiscal year which includes the last quarter of Federal FY 2002 and the first three quarters of Federal FY 2003. Since federal grants are received in Hawaii based upon the federal fiscal year (October 1 through September 30), these numbers do not match exactly with the federal grant amounts recorded in the Federal Financial Status Report.

The following table presents a summary of the HEER Office Federal funding. Details for the EPA Superfund Grant (Core grant, Preliminary Assessment/Site Inspection (PA/SI) Cooperative Agreement, and Voluntary Cleanup Program/Brownfields Program grant), and Department of Defense/State Memorandum of Agreement (DSMOA) program grant are presented in the following sections.

Table 5 HEER Office Federal Funding Summary

		Budgeted FY 2003	Expended FY 2003
Superfund Core Grant			
A Funds		117,739	143,731
B&C Funds		126,261	98,757
	Subtotal	<u>244,000</u>	<u>242,488</u>
Superfund PA/SI Agreement			
A Funds		132,260	108,588
B&C Funds		56,740	53,003
	Subtotal	<u>189,000</u>	<u>161,592</u>
Superfund VCP/BF Programs			
B&C Funds	Subtotal	204,444	106,740
DOD DSMOA Program			
A Funds		213,724	76,683
B Funds		48,115	18,451
C Funds		10,000	4,549
	Subtotal	<u>271,839</u>	<u>99,683</u>
		<u> </u>	<u> </u>
	TOTAL FEDERAL FUNDS:	\$909,283	\$610,502

4.3.3.1 EPA Superfund Core Grant

HEER Office Superfund Core grant funds are utilized for the state response program development. The Core program provides for non-specific activities to develop and enhance the base capabilities of State cleanup programs, promote meaningful participation in Superfund implementation, and build State program capabilities to meet CERCLA response requirements.

The HEER Office utilizes the Core funds for activities such as the following:

1. Preparation of technical manuals
2. Development of procurement procedures
3. Response agreement administration
4. Operation and maintenance capability development
5. Cost recovery program development
6. Training
7. Travel and meetings
8. General program management
9. Computer-based systems/accounting and data systems
10. Records management
11. Fiscal Planning
12. Auditing capabilities
13. Minority Business Enterprises/Women's Business Enterprises MBE/WBE program development
14. Voluntary Cleanup Program reforms
15. Brownfields Remediation and Redevelopment Program reforms

Table 6 HEER Office EPA Superfund Core Grant Funds

			<u>Budgeted FY 2003</u>	<u>Expended FY 2003</u>
A Funds	1	Planner V, SR-24		
	1	EHS IV, SR-22		
	1	Secretary, SR-14		
	3	Subtotal	117,739	143,731
B&C Funds			126,261	98,757
TOTAL SUPERFUND CORE:			\$244,000	\$242,488

4.3.3.2 HEER Office EPA Superfund PA/SI Cooperative Agreement

Since October 1989, Hawaii has entered into a Preliminary Assessment/Site Inspection (PA/SI) Cooperative Agreement (CA) with the EPA. A specificity for receiving the PA/SI partnership agreement between the State and the U.S. EPA Region IX is: **The PA/SI funds, consisting of \$189,000, should be utilized for only those costs associated with continuing the Federal PA/SI Program in the State.**

Table 7 HEER Office Preliminary Assessment/Site Inspection Cooperative Agreement Funds

			<u>Budgeted FY 2003</u>	<u>Expended FY 2003</u>
A Funds	1	Env. Health Spc. IV, SR-22		
	2	Env. Health Spc. III, SR-20		
	0.5	Clerk Typists II, SR-08		
	3.5	Subtotal	132,260	108,588
B&C Funds			56,740	53,003
TOTAL PA/SI:			\$189,000	\$161,591

4.3.3.3 HEER Office EPA Superfund Voluntary Cleanup Program and Brownfields Redevelopment Grant

The Voluntary Cleanup Program (VCP) grant is federal funding from the Environmental Protection Agency which is awarded to the State as a resource to encourage the voluntary cleanup of contaminated sites by developers and prospective purchasers. The VCP grant provides administrative and other non-site specific funds to operate the Voluntary Response Program. The federally available funds for VCP were \$102,444 in FY 2003.

The Voluntary Response Program (VRP) on the other hand, is an operating State program located in the HEER Office. Development of the VRP program continued during FY 2003 using predominately the federal VCP grant. Under the State VRP program, each site accepted into the program is required to deposit \$5,000 into the ERRF and maintain a balance of no less than \$ 1,000 in order to fund the DOH personnel providing oversight. This requires the State to track deposits and expenditures individually for each site admitted into the program for voluntary response and/or cleanup. The site specific/project specific voluntary response agreement with the State provides the participating parties with technical advice based on the latest technologies and a one on one working relationship with the project manager overseeing the cleanup actions.

The Brownfields Program is targeted at cleaning up abandoned hazardous waste sites and preparing them for economic redevelopment. The federally available funds for the Brownfields Redevelopment Program in FY 2003 was \$102,000.

Table 8 HEER Office Voluntary Cleanup Program and Brownfields Program Funds

			Budgeted FY 2003	Expended FY 2003
B&C Funds	*	Voluntary Cleanup Program	102,444	79,832
B&C Funds	**	Brownfields	102,000	26,908
TOTAL VCP and BF:			\$204,444	\$106,740

* This portion of the Combined Superfund Federal Grant is awarded to the HEER Office as “B” funding, similar to those funds awarded in contractual agreements. The Grant dollars are to be used for non-site specific activities only. The grant was initially used to amend Chapter 128D, “Environmental Response Law” for the implementation of a State Voluntary Response Program (VRP). Although this Voluntary Cleanup Program grant award has a limited duration, EPA Region IX is continuing to provide these funds to the HEER Office supporting Hawaii’s environmental cleanup agenda, through development of the State Voluntary Response program.

** This portion of the Combined Superfund Grant is awarded as a contract, “B” funding. The Brownfields dollars are awarded through the Department of Health, Hazard Evaluation and Emergency Response (HEER) Office to be used for pilot cleanup and redevelopment projects. Currently Department of Business, Economic Development and Tourism (DBEDT) is the selected recipient of the award in an effort to cleanup specifically selected State lands for redevelopment to stimulate economic growth.

4.3.3.4 Department of Defense/State Memorandum of Agreement Program Grant

The Department of Defense/State Memorandum of Agreement (DSMOA) program was established by the federal government to cover reimbursement of costs incurred by the state in providing oversight services to the Department of Defense (DOD) installations conducting environmental cleanup activities funded under the Defense Environmental Restoration Program (DERP). A 2-year Cooperative Agreement (CA) application was submitted in April 2002 and an approval was received to obtain reimbursement funding to cover FY 2003 and FY 2004 costs incurred by Hawaii in the DSMOA Program. The DSMOA funds are given to the State based on the State's request for advanced or reimbursement payment. If there is need for additional funding the Cooperative Agreement allows for the renegotiation for increased funding.

Table 9 HEER Office Department of Defense/State Memorandum of Agreement (DSMOA) Program Funds

			<u>Budgeted FY 2003</u>	<u>Expended FY 2003</u>
A Funds	1	Geologist, SR 24		
	3	EHS IV, SR 22		
	0.5	Clerk Typist, SR 8		
	4.5	Subtotal	213,724	76,683
B Funds			48,115	18,451
C Funds			10,000	4,549
TOTAL DSMOA:			\$271,839	\$99,683

5 ERRF FUNDING, PROGRAMS, AND PROJECTS

This section presents the FY 2003 report on all revenues and expenditures from the Environmental Response Revolving Fund (ERRF) pursuant to the requirements of Section 18 of ACT 200, SLH 2003. Section 18 of the State Budget provided that the Environmental Health Administration (HTH 849), shall submit a report on all revenues and expenditures from the Environmental Response Revolving Fund; provided further that this report shall be submitted to the legislature no later than twenty days before the convening of the 2004 and 2005 regular sessions.

5.1 Environmental Response Revolving Fund

The Environmental Response Revolving Fund (ERRF), established in Chapter 128D, HRS, is supported by a tax of five cents per barrel on petroleum sold in the State of Hawaii, fines and penalties for environmental violation, grants, legislative appropriations, and costs recovered from response actions. The fund shall be used to conduct removal or remedial actions consistent with Chapter 128D; the oil tax shall also be used:

1. For oil spill planning, prevention, preparedness, education, research, training, removal, and remediation; and
2. For direct support for county used oil recycling programs.
3. The fund may also be used to support environmental protection and natural resource protection programs; including but not limited to energy conservation and alternative energy development; and to address concerns related to air quality, global warming, clean water, polluted runoff, solid and hazardous waste, drinking water, and underground storage tanks (UST), including support for the UST program of the department and funding for the acquisition by the State of a soil remediation site and facility.

Currently, five programs within DOH have budgeted accounts for access to the ERRF: The Hazard Evaluation and Emergency Response Office (HEER), Solid and Hazardous Waste Branch (SHWB), the Safe Drinking Water Branch (SDWB), the Clean Water Branch (CWB), and the Environmental Management Division (EMD).

Two special cleanup projects also received ERRF funding during FY 2003. Funding was provided to the Department of Land and Natural Resources for the *Salvinia molesta* removal project and the DOH Solid and Hazardous Waste Branch for the Mercury Reduction Project.

The ERRF budget and expenditures for the five environmental programs and two special projects, and also the descriptive summaries of the usage of the funds, are presented in the following sections.

5.1.1 ERRF Revenues

The following table presents the revenues collected as of June 30, 2003.

Table 10 ERRF Revenues

	<u>Revenue Source</u>	<u>Revenues FY 2003</u>
1.	Environmental Response Tax	1,562,115
2.	Fees, Filing of Tier II Chemical Inventory	\$79,400
3.	Violations of Air Pollution	51,885
4.	Violations of Hazardous Waste	80,124
5.	Violations of Water Pollution	101,745
6.	Violations of Community Noise Control	2,950
	TOTAL ERRF REVENUES:	\$1,878,219

5.1.2 FY 2003 Environmental Management Division Budget Summary

During the State FY 2003, the HEER Office had an operating allocation of \$2,848,450 from the State ERRF. The HEER Office utilized the ERRF for two primary purposes: response and operations. The response budget of \$1,094,000 was primarily allocated for emergency response and the remedial contract services, which supplement its response capacity.

The operations budget of \$1,754,450 was allocated to conduct oil spill cleanups, enforce Chapter 128D, HRS, and fund the counties' used oil recycling programs. Funding for the recycling programs, though budgeted in the HEER Office, is managed and overseen by staff in the Solid and Hazardous Waste Branch. The HEER Office operating budget also funds equipment purchases and all HEER personnel funded by the ERRF.

Four other programs in the Environmental Health Administration (EHA) received funding from the ERRF. During FY 2003, the Solid and Hazardous Waste Branch (SHWB) had a budget of \$460,579, the Safe Drinking Water Branch (SDWB) had a budget of \$665,434, the Clean Water Branch (CWB) had a budget of \$255,106, and the Environmental Management Division (EMD) had a budget of \$45,264. A detailed description of function and operations of the SHWB, SDWB, CWB, and EMD are presented in Appendix A. A total of \$1,426,383 was allocated from the ERRF for the above four environmental programs.

Two special projects also received funding from the ERRF. The Department of Land and Natural Resources (DLNR) received a direct transfer of \$500,000 from the ERRF for the Lake Wilson *Salvinia molesta* removal project. The DOH Solid and Hazardous Waste Branch received a transfer from the HEER Office ERRF funds in the amount of \$138,950 for the Mercury Reduction Project.

5.1.3 FY 2003 Environmental Management Division Expenditure Summary

The State expended \$3,056,382 of \$4,335,887 allocated for appropriation to the FY 2003 ERRF operating budget.

The HEER Office expended \$1,345,655 from the ERRF during State FY 2003. The HEER Office utilized the ERRF for four purposes: operations; response; personnel, and equipment purchases. The operations expenditure of \$363,677 was used to conduct oil spill cleanups; enforce Chapter 128D, HRS; and fund the counties' used oil recycling programs. The response expenditures of \$431,431 were used to conduct responses to releases or threats of releases of hazardous substances. The personnel expenditure was \$522,905.

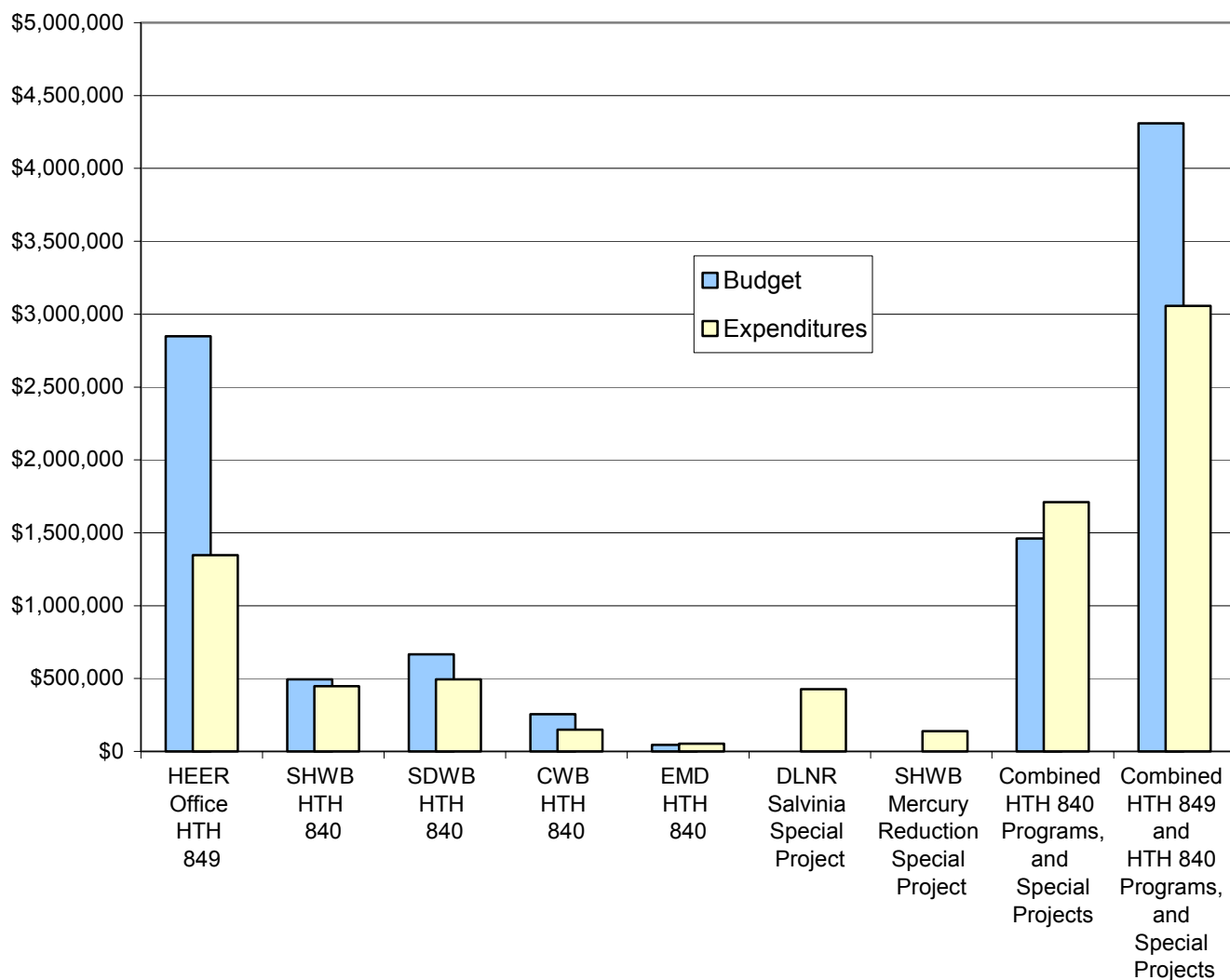
The State also utilized \$1,144,881 of the ERRF to fund four HTH 840 budgeted environmental programs. The individual draw-downs from the ERRF were \$446,913 to the Solid and Hazardous Waste Branch; \$493,896 to the Safe Drinking Water Branch; \$150,000 to the Clean Water Branch; and \$54,072 to the Environmental Management Division.

ERRF FUNDING, PROGRAMS, AND PROJECTS

The Department of Land and Natural Resources (DLNR) expended \$426,896 for the Lake Wilson *Salvinia molesta* removal project. The DOH Solid and Hazardous Waste Branch expended \$138,950 for the Mercury Reduction Project.

The chart below is a summary of expenditures for the five Environmental Health Administration (EHA) programs receiving funding from the ERRF and also to the DLNR and SHWB special projects. The details and narratives for the programs and projects budget and expenditures are presented in the following sections.

Chart 3 ERRF HTH 849 and HTH 840 Programs, and Special Projects Budget and Expenditures Summary FY 2003



5.1.4 FY 2003 ERRF Budget and Expenditure Summary Tables**Table 11 Environmental Response Revolving Fund Summary**

	<u>Budgeted FY 2003</u>	<u>Expended FY 2003</u>
<u>HEER-HTH 849-FD</u>		
A Funds	698,037	522,905
B Funds	2,150,413	795,108
C Funds	-0-	27,642
HEER Subtotal	<u>2,848,450</u>	<u>1,345,655</u>
<u>SHWB-HTH 840-FJ</u>		
A Funds	479,439	446,382
B Funds	15,000	531
SHWB Subtotal	<u>494,439</u>	<u>446,913</u>
<u>SDWB-HTH 840-FH</u>		
A Funds	510,441	468,146
B Funds	154,993	25,750
SDWB Subtotal	<u>665,434</u>	<u>493,896</u>
<u>CWB-HTH 840-FG</u>		
A Funds	90,106	-0-
B Funds	160,000	150,000
C Funds	5,000	-0-
CWB Subtotal	<u>255,106</u>	<u>150,000</u>
<u>EMD-HTH 840-FH</u>		
A Funds	45,264	54,072
EMD Subtotal	<u>45,264</u>	<u>54,072</u>
<u>DLNR Salvinia Cleanup Project</u>		
A Funds		84,905
B Funds		341,991
DLNR Salvinia Subtotal		<u>426,896</u>
<u>SHWB Mercury Reduction Project</u>		
B Funds		138,950
SHWB Mercury Subtotal		<u>138,950</u>
TOTAL ERRF:	<u>\$4,308,693</u>	<u>\$3,056,382</u>

Table 12 HEER Office Environmental Response Revolving Funds

			Budgeted FY 2003	Expended FY 2003
A Funds	1	Epi Specialist III, SR 20		
	2	Env. Health Spc. V, SR 24		
	1	Clerk Typist II, SR 08		
	5	Env Hlth Spc. IV, SR 22		
	1	Toxicologist I, SR 26		
Temporary	1	Toxicologist I, SR 26		
Temporary	1	Eco Risk Assessor, SR 26		
Temporary	2	Voluntary Cleanup Spc, SR22		
	4	10	Subtotal	698,037
			698,037	522,905
B Funds		Response	1,094,000	431,431
		Operations	1,056,413	363,677
		Subtotal	2,150,413	795,108
C Funds			-0-	27,642
TOTAL HEER:			\$2,848,450	\$1,345,655

Table 13 Solid and Hazardous Waste Branch Revolving Funds

		<u>Budgeted FY 2003</u>	<u>Expended FY 2003</u>
A Funds	1 Environ. Engineer IV, SR 24 (SW)		
	1 EHS IV, SR 22 (HW)		
	1 EHS IV, SR 22 (HW)		
	1 EHS III, SR 20 (LUST)		
	1 EHS IV, SR 22 (LUST)		
	1 Geologist I, SR 24 (LUST)		
	1 EHS III, SR 20 (UST)		
	1 EHS III, SR 20 (UST)		
	1 EHS IV, SR 22 (UST)		
	1 Clerk Typist II, SR 08 (UST)		
	10 Subtotal	479,439	446,382
B Funds		15,000	531
C Funds		-0-	-0-
TOTAL SHWB:		\$494,439	\$446,913

Table 14 Safe Drinking Water Branch Revolving Funds

		<u>Budgeted FY 2003</u>	<u>Expended FY 2003</u>
A Funds	3 Env. Engineer IV		
	1 Env. Hlth Spec. III		
	2 Clerk		
	1 UIC Clerk		
	1 DPSA		
	2 UIC Geologist I		
	1 UIC Geologist II		
	11 Subtotal	510,441	468,146
B Funds		154,993	25,750
TOTAL SDWB:		\$665,434	\$493,896

Table 15 Clean Water Branch Revolving Funds

			<u>Budgeted FY 2003</u>	<u>Expended FY 2003</u>
A Funds	1	DPSA IV		
	1	Env. Hlth Spec. IV		
	2	Subtotal	91,106	-0-
B Funds			160,000	150,000
C Funds			5,000	-0-
TOTAL CWB:			\$255,106	\$150,000

Table 16 Environmental Management Division Revolving Funds

			<u>Budgeted FY 2003</u>	<u>Expended FY 2003</u>
A Funds	1	DPSA V, SR24	45,264	54,072
TOTAL EMD:			\$45,264	\$54,072

**Table 17 Department of Land and Natural Resources Lake Wilson
Salvinia Molesta Removal Revolving Funds**

		<u>Budgeted FY 2003</u>	<u>Expended FY 2003</u>
A Funds	Dept. of Agriculture		582
	Dept. of Transportation		11,936
	Dept. of Land and Natural Resources		72,387
	Subtotal		<u>84,905</u>
B Funds	Dept. of Agriculture		1,417
	Dept. of Transportation		44,703
	Dept. of Land and Natural Resources		295,871
	Subtotal		<u>341,991</u>
C Funds			-0-
	TOTAL DLNR Salvinia Molesta:		<u>\$426,896</u>

**Table 18 Solid and Hazardous Waste Branch Mercury Recovery
Project Revolving Funds**

		<u>Budgeted FY 2003</u>	<u>Expended FY 2003</u>
A Funds			-0-
B Funds			138,950
C Funds			-0-
	TOTAL SHWB Mercury Recovery:		<u>\$138,950</u>

5.2 Environmental Health Administration Programs Receiving HTH 840 and 849 ERRF Funding

There are currently five Environmental Health Administration (EHA) programs receiving funding from the ERRF. They are the Hazard Evaluation and Emergency Response (HEER) Office, Solid & Hazardous Waste Branch (SHWB), the Safe Drinking Water Branch (SDWB), the Clean Water Branch (CWB), and the Environmental Management Division (EMD).

5.2.1 Hazard Evaluation and Emergency Response Office

The Hazardous Evaluation and Emergency Response (HEER) Office serves the people of the State of Hawaii by addressing all aspects of releases of hazardous substances including oil into the environment. Work includes preventing, planning for, and responding to hazardous substance releases or risks of releases. The HEER Office accomplishes this mission by addressing contaminated sites with the highest risk to human health and the environment first, preventing contamination rather than cleaning up after the fact, and basing decisions on sound scientific principles and common sense.

The following are highlights of the progress made in FY 2003:

1. The HEER State On-Scene-Coordinators (SOSC) staff trained in chemical terrorism and risk communication issues associated with chemical and biological terrorism.
2. The HEER Office environmental enforcement capabilities were strengthened to provide effective prevention of chemical spills. State and Federal agencies are working together to prosecute several environmental law violators.
3. A fish advisory was issued after the Hazard Evaluation section completed a Phase 1 study of methyl mercury in pelagic fish.
4. A new and expanded confidential surveillance tool was developed for physicians and hospitals to report results on potential chemical poisoning to the DOH.
5. Public outreach efforts increased. Managers and staff attended community meetings and presented results of environmental risk assessments to the public.
6. Site clean up highlights: Letters of completion were issued for three Voluntary Response Program (VRP) sites. Four new Brownfields projects were initiated. No-Further-Action decisions were issued for four private sites. Sampling efforts are underway to evaluate the extent of chemical contamination at eight former sugar mill sites. Significant guidance and oversight was provided to the City and State concerning the contamination issues at the Fishing Village.

7. SOSCs oversaw two vessel groundings. The 60 feet steel hull fishing vessel Kolea was grounded off Diamond Head and released 1,000 gallons of diesel fuel. The vessel was towed half a mile to sea where it was scuttled in 300 feet of water. The motor vessel Messenger of Peace was grounded on the reef off Maui with 1,000 gallons of diesel fuel on board. The State contractor removed the fuel from the vessel and towed it to sea for disposal.

5.2.2 Solid and Hazardous Waste Branch

The Environmental Response Revolving Fund provides support for the following program activities within the Solid and Hazardous Waste Branch (SHWB):

5.2.2.1 Used Oil Management and Recycling

On March 13, 1999, amendments to the hazardous waste regulations became effective. Federal regulations promulgated from 1993 to 1998 were incorporated into the latest version. Most notable was the addition of the used oil regulations, Hawaii Administrative Rules (HAR) 11-279. The new used oil regulations combined federal regulations along with existing state regulations that were formerly under HAR 11-58.1, Solid Waste Management.

The Hazardous Waste Program is responsible for all aspects of used oil management. There are currently 33 new used oil transporter permits were issued. Three permit applications are being reviewed and awaiting issuance. Of the 33 transporters, approximately 9 are considered both a transporter and processor of used oil.

The number of used oil permits continue to increase as we identify more used oil handlers. These un-permitted handlers are usually identified during inspections conducted in conjunction with hazardous waste.

For various reasons, including greater awareness from the general public, there continues to be more used oil complaints for illegal dumping, on all islands. The used oil inspector, hazardous waste inspectors and solid waste inspectors have been working together to respond to the complaints. Oftentimes used oil, hazardous waste and solid waste are found at these complaint sites.

Along with the hazardous waste funded inspector positions, the hazardous waste/used oil inspector position was reallocated from an EHS level III to an EHS level IV.

In FY 2002 the hazardous waste planner rewrote the used oil contracts and awarded new contracts to the Kauai, Maui and Big Island counties to continue their Used Oil Do-It-Yourself (DIY) Collection Program. All three counties requested and received an increase in their grant funding. The increase will go towards adding more site collection areas, disposal of the used oil (both clean and contaminated oil), and providing greater education and outreach through various methods most appropriate for the counties. Honolulu County declined grant money for a DIYer UO Collection Program because of the availability of H-Power and the county's campaign to have DIYers use oil eater boxes.

The EHS IV Permit Writer, which is also supported by the oil fund, continues his oversight of contaminated facilities undergoing groundwater monitoring (Chevron Refinery, Tesoro Refinery, Hawaiian Western Steel and Chemwood). Facilities such as Midpac Lumber and Kauai Agriculture Research Center are also undergoing closures of contaminated sites. Makua Military Reservation continues to be a highly charged site. However, due to national defense Makua is once again being used as a live fire training ground. The Army has agreed that upon cessation of training, they will do a full-blown Environmental Impact Statement.

5.2.2.2 Special Waste Management

The Special Waste permitting engineer is responsible for permitting and monitoring activities over a wide range of special waste management facilities including petroleum contaminated soil (PCS) remediation facilities. Another major focus is the permitting and oversight of Auto Salvage facilities where a primary concern is the proper management of gasoline, oil and other automotive fluids removed from the vehicles. Currently the Engineer has responsibility for more than 40 permitted facilities, which deal directly or indirectly with oil related issues

5.2.2.3 Management of Leaking Underground Storage Tank (LUST) Sites

The EHS III has an active caseload of 75 LUST sites at this time and provides project oversight to all remedial efforts of his cases. The EHS IV provides team unit leadership for four other EHS III staff and an additional 246 active LUST sites in the state of Hawaii. The EHS IV position has been vacant since June 2002.

5.2.2.4 Inspection of Underground Storage Tank Facilities

From July 1, 2002 to September 30, 2003, the UST EHS IV reviewed and issued 4 permits for the installation and operation of new USTs at regulated UST facilities. A permit is required to install or operate an UST or tank system brought into use in Hawaii after the effective date of the State rules. The permit is issued for a term of 5 years. Once the permit is issued, the UST owner and operator has one year to install the tank or tank system and must notify the DOH at least 7 days before installation. After the tank is installed, the UST owner and operator must notify the DOH with 30 days using forms provided by the DOH.

The state's field citation program continues to conduct operational inspections at facilities with UST's and issue field citations as necessary. These inspections include review of release detection records, documents demonstrating evidence of financial responsibility, and spill and overfill prevention equipment and corrosion protection standards. The goal of these inspections is to prevent releases of petroleum and hazardous substances from UST systems and to minimize the volume of release if one does occur.

The field citation program are similar to a traffic ticket: they are issued for easily verifiable and correctable violations; they contain lower penalty amounts than traditional enforcement tools, they are usually issued in the field at the time of the inspection and the owner or operator must return to compliance and pay a penalty within 30 days of issuance of the citation.

The UST EHS IV tracked and reviewed the daily work activities of the EHS IIIs, maintains the database for the UST section, and is the Safety Coordinator for the Solid and Hazardous Waste Branch.

The UST EHS IIIs and EHS IV provided assistance to consultants and contractors who requested and reviewed UST facilities files. Timely review of facility files assists the banking, real estate and petroleum industry to complete transactions involving the sale or return of properties that were affected by petroleum releases.

5.2.3 Safe Drinking Water Branch

The ERRF continued to support Safe Drinking Water Branch (SDWB) personnel and activities related to the protection of public health and drinking water quality through many activities during FY 2003. These funds were used to support activities with both direct and indirect drinking water protection benefits.

5.2.3.1 Reassessment of State Standard for 1,2,3-trichloropropane

1,2,3-Trichloropropane (TCP) levels in those drinking water sources, which have been contaminated, continue to be relatively stable. The Honolulu Board of Water Supply and other water systems on Maui have spent significant resources to investigate treatment options, and install, operate and maintain treatment facilities to reduce the levels of TCP in their sources. The reassessment of the state standard for TCP was completed in early FY 2002. The Sapphire Group, Inc. completed its evaluation of current toxicological information concerning TCP, and presented its findings to the Department and the potentially affected water suppliers in December 2001. This evaluation recommended a reduction in the TCP standard from the current concentration of 0.8 micrograms per liter to 0.6 micrograms per liter.

This change was incorporated in our current rule revision package and taken to public hearing on October 31, 2002. Based on the comments received on this proposed change, the reduction in the TCP standard were adopted on November 30, 2002.

5.2.3.2 Lead and Copper Rule Administration

Lead and copper concentrations in Hawaii's drinking water are regulated under state implementation of the federal Lead and Copper Rule. Administration of this rule is one of the responsibilities of the Safe Drinking Water Branch staff supported by the Environmental Response Revolving Fund ERRF.

The rule requires drinking water systems to collect and analyze "first flush" samples from kitchen or bathroom cold water taps in homes most likely to have elevated levels of lead or copper. These homes were typically built before 1982 with copper pipes and lead solder.

The number of samples collected is based on the population served by the systems and range from five to one hundred. Samples are collected on a routine schedule. Initially samples are collected every six month, then annually for two years, and then once every three years if the water is found to be not corrosive, and/or treatment is not required.

Action levels for lead or copper under the Lead and Copper Rule are exceeded when 10 percent of the samples are found to have a lead concentration greater than 15 micrograms per liter (parts per billion), or a copper concentration greater than 1.3 milligrams per liter (parts per million). In Hawaii, lead or copper levels in drinking water have been found to exceed action levels only when the water is from surface water, springs, or shallow wells, and it is due to the acidity of the water which in turn leaches out lead and/or copper from the plumbing fixtures. Fortunately, lead has never been detected in any ground or surface drinking water sources in Hawaii.

In FY 2003 both the Honomu and Peepeekeo water systems on Hawaii reduced copper concentrations to below the copper action level.

At the end of FY 2003, three water systems exceeded the lead or copper action levels. The lead action level was exceeded for the South Kohala water system on Hawaii, and the Kauai State Park water system. The copper action level was exceeded for the Kukio Utility Company, a new water system on Hawaii.

The Safe Drinking Water Branch is also reviewing the Maui Department of Water program to reduce lead levels to below the action levels by using a corrosion inhibitor. An investigation is underway to see if there is any correlation between the corrosion inhibitor usage and cases of skin irritation that have been reported by people in the upcountry Maui area.

The South Kohala and the Kokee State Park water systems are expected to reduce the lead concentrations to below the lead action level in FY 2004. The copper action level at Kukio Utility Company water system was exceeded while using approved temporary drinking water sources. The system will switch to permanent water sources in FY 2004, and will be retesting the water for lead and copper.

5.2.3.3 Development and Maintenance of Disinfectant/Disinfection By-Products Rule and Interim Enhanced Surface Water Treatment Rule

The ERRF supports a staff person who was originally responsible for administration of the Surface Water Treatment Rule (SWTR) which was promulgated by EPA in 1991. This rule imposed treatment, monitoring, and reporting requirements on surface water systems for the removal or control of several microorganisms. Since that time, EPA has become aware of and concerned with additional microorganisms, which are more difficult to filter and are more resistant to conventional disinfections. In response, they have promulgated more stringent requirements for surface water systems in the form of the Interim Enhanced Surface Water Treatment Rule (IESWTR).

At the same time, EPA has recognized that the addition of disinfectants to water (primarily surface waters), which have "precursors", can generate by-products. Some of these by-products are thought to be harmful. In response, EPA has generated the Disinfectant/Disinfection By-Products Rule (D/DBPR) which seeks to limit the concentration of disinfectants added to drinking water as well as limit the presence of disinfections by-products in the water.

The D/DBPR and the IESWTR work together to increase public health protection by increasing protection from exposure to additional microbes in drinking water, while assuring that the disinfectant and disinfections by-product levels in the water are limited to safe levels.

The public hearing for these rules was held on October 31, 2002. Based on the testimonies received, these two new rules were integrated into the state's drinking water regulations on November 30, 2002.

5.2.3.4 Protection of Existing and Potential Underground Sources of Drinking Water (Hawaii Underground Injection Control Program)

The Hawaii Underground Injection Control (UIC) Program is directly responsible for protecting existing and future underground sources of drinking water (USDW) from contamination by underground injection of waste fluids.

In the early 1980's, work to identify the important USDW areas was completed. This work was accomplished by the DOH and technical advisory committees from each county. The county water supply and public works agencies, the U.S. Geological Survey, the Department of Land and Natural Resources (DLNR), private business, and involved consultants were some of the major participants in the technical advisory committees.

Following the identification of the state's USDWs, an individual-permit system was implemented to control discharge quantities, effluent quality and injection practices. These permits identify operating conditions as well as monitoring and reporting requirements.

The ERRF currently supports a staff of three geologists and one clerk-typist who administer the entire program for over 800 facilities statewide. Each facility may involve multiple injection wells. Injection wells support many vital facilities including: municipal and private wastewater treatment plants, energy generation facilities, storm water runoff control, and many other functions. In addition to protection of USDWs and the environment, the UIC program makes underground injection possible as a wastewater disposal alternative in lieu of ocean outfalls.

Since December 1999, the UIC program has also been working closely with the EPA regarding EPA's federal rule to close all large-capacity cesspool injection wells in Hawaii, as well as nationwide, by April 2005.

5.2.3.5 Certification of Operators of Public Water Systems

One way of protecting drinking water is to ensure that the staff working daily on the public water systems have sufficient training to do their duties properly. Congress felt so strongly about the need for state operator certification programs for public water systems that they authorized the EPA to withhold 20% of a state's capitalization grant beginning in 2001 if a state failed to achieve a certification program meeting minimum EPA criteria. In Hawaii, this would have equated to the loss of \$1.4 million in funds intended for low interest loans for public water system protection and improvements.

Hawaii's program consists of a five-member Board of Certification, appointed by the Governor, which meets to set policy, act on all applications for certification, assign continuing education units to training events, and more. The ERRF supports a staff of two, an environmental engineer and a clerk-typist. This staff compiles and maintains files on all existing certified operators, receives and prepares all applications for Board review, receives and processes all certification and testing fees, prepares the examinations, prepares all correspondence, conducts training, administers examinations, and tracks other state programs to see how they handle specific issues and more.

At the end of FY 2003, the program had 172 certified water treatment plant operators and 352 certified distribution system operators.

5.2.3.6 Assistance to Owners and Users of Rainwater Catchment Systems

Act 218 of 1997 authorized the Safe Drinking Water Branch (SDWB) of the Department to use ERRF monies to administer a subsidized lead and copper testing program and to lend technical assistance to owners and users of rainwater catchment systems. This approach is preferable to the development of regulations for these systems since regulating these systems would impose significant costs on the owners and users for the use of standardized materials and treatments which many owners could not afford and which may not solve all their contamination problems. At the same time, enforcing regulations placed on the catchment systems would require extensive additional staff and resources.

Each year, the Safe Drinking Water Branch receives many calls from people who use, own, or are about to use rainwater catchment to support their home needs. Some of these people have recognized problems such as dead animal(s) in their water storage tank, heavy algal growth, slimy buildup on the sides of their tank, and living organisms in the water. Others have had their water tested for bacteria and found severe contamination. Yet, others have experienced illness, which they suspect has been caused by the water from their system. In actuality, a high degree of vigilance and maintenance on the part of the owner or user of a rainwater catchment system is required in order to protect it from many forms of contamination.

During FY 2003 a request was received for funds to reprint the University of Hawaii, College of Tropical Agriculture and Human Resources brochure "Guidelines on Rainwater Catchment Systems for Hawaii". The department intends to provide funding for this reprinting during FY 2004.

5.2.3.7 Capacity Development Program

Major strides were accomplished in the effort to assure that Hawaii public water systems achieve and maintain the technical, managerial, and financial capacity to comply with drinking water regulations. Two contracts were issued during FY 2002, which will help assure that more systems are able to meet capacity requirements. While the Environmental Response Revolving Fund supported the staff member who prepares and administers the contracts, the funding for the contracts comes from federal capitalization grant funds.

The first contract provides extensive training opportunities for managers, and water treatment plant and distribution system operators between 2001 and 2004. This contract was awarded to the Rural Community Assistance Corporation, and provides training for six managers, ten water treatment plant operators, and fourteen distribution system operators every six months on all the major islands.

The second contract provides five water systems with 200 hours of technical assistance to help them improve technical, managerial, and financial capacity. One water system on each of the five major islands is participating in this program. The water systems are Hawaiian Shores on Hawaii, Hana Water Resources on Maui, Kualapuu on Molokai, Dillingham ranch on Oahu, and Gay and Robinson on Kauai.

The state is also in the process of reviewing our rules to allow the Drinking Water State Revolving Loan program to provide low interest loans to privately owned public water systems.

5.2.4 Clean Water Branch

The ERRF provides support for the following activities within the Clean Water Branch (CWB).

5.2.4.1 Quality Assurance

The 2001 Legislature authorized an Environmental Health Specialist (EHS) position and a Data Processing Systems Analyst IV (DPSA) position for the CWB. The tasking for the EHS position will insure that monitoring data submitted by CWB permitted facilities meet acceptable standards for sampling, transportation, and reporting as required by DOH policies and under EPA rules. The DPSA position will perform tasks to integrate various federally required data systems, and provide technical support to the CWB staff in the areas of data recording and reporting. Recruitment for these positions was halted by the Governor's December 2002 freeze on hiring. The CWB is currently in the process of obtaining Governor's approval to fill the positions.

5.2.4.2 Polluted Runoff Control

The 2001 Legislature authorized continued funding of contract funds to support the creation of three Conservation Specialists (CS) positions on the neighbor islands and Oahu. These positions assist the CWB's Polluted Runoff Control (PRC) program by providing technical assistance and oversight in the control of non-point source pollution resulting from activities in areas such as agriculture, urban, commercial, boating, and dealing with the general public. Due to the State's lengthy contract process, and the need to develop a scope of services that would add value to the program's mission, the FY 2002 contract was not awarded until the end of the fiscal year. The FY 2002 contract award was made to the Hawaii Association of Conservation Districts in June 2002. The contract is running concurrently with the FY 2003 award made to the University of Hawaii Sea Grant program in July 2002. The two contracts provide for six CS positions, with one each in Lihue, Kahului, Waimea, Hilo, Windward and Leeward Oahu. Both contracts are for one year.

5.2.5 Environmental Management Division

The ERRF funds the Data Processing Systems Analyst computer network manager position for the Environmental Management Division. The network manager supports and maintains the Local Area Network/Wide Area Network LAN/WAN connections for the division.

Responsibilities of this position include providing a reliable daily backup, ensuring users have access to their data files, and providing email and internet connectivity. The network manager is also working to improve and upgrade network servers and connections. During FY 2003, these projects included the upgrade of the proxy server and the mail server. In addition, the network manager coordinated the installation of a Video Conferencing Center VCC. The VCC will be used by all tenants in the Army Air Force Exchange System AFFES building located at 919 Ala Moana Boulevard.

5.3 Special Projects Receiving ERRF Funding

During FY 2003 two special environmental projects received ERRF funding. The Department of Land and Natural Resources (DLNR) received funding for the Lake Wilson *Salvinia molesta* removal. Additionally, a portion of the HEER Office ERRF funding was transferred to the Solid and Hazardous Waste Branch for the Mercury Reduction Project.

5.3.1 Department of Land and Natural Resources Lake Wilson *Salvinia Molesta* Removal

On March 17, 2003, Governor Lingle approved the transfer of \$500,000, pursuant to Section 158 of Act 259, SLH 2001, from the Department of Health's Environmental Response Revolving Fund (ERRF) to the Department of Land and Natural Resources (DLNR) for the Lake Wilson *Salvinia molesta* removal. In addition, pursuant to Section 128D-4(e), HRS, the Governor also authorized the increase of the FY 2003 appropriation ceiling for the ERRF by \$1.7 million from \$4,019,727 to \$5,719,727, with the understanding that additional funds may be transferred to the DLNR subject to availability.

Salvinia molesta (*Salvinia*), also known as Giant *Salvinia*, is the world's worst aquatic weed species. It can double in numbers under ideal conditions in 2.2 days. This plant reproduces as portions break off, whereby if the plant is broken into several pieces, each piece will have the ability to grow into a new plant. *Salvinia* growth covers a water body blocking all sunlight from penetrating the infested water body, thus eliminating all of the submerged vegetation that is important to the survival of fish. Additionally, as the plants die and decay, they can cause a decrease in dissolved oxygen in the water body.

Lake Wilson (Lake) is a manmade freshwater reservoir in central Oahu covering approximately 300 acres and contains approximately 500 tons of various introduced species of fish. No native freshwater fish or invertebrate species reside in the Lake, but some migrate through it.

Salvinia was discovered in the Lake about four years ago during the removal of an infestation of water hyacinths and was controlled through routine maintenance by Department of Land and Natural Resources (DLNR), Division of Aquatic Resources (DAR). Around July-August 2002, DAR discovered that *Salvinia* seemed to be multiplying and stepped-up their control efforts. By

ERRF FUNDING, PROGRAMS, AND PROJECTS

November 2002, most of the Salvinia was contained in the basin area (at the dam and spillway of the Lake) and the City & County of Honolulu (City) assisted in removal efforts using a front-end loader and dump trucks.

In December 2002, Salvinia within and just outside of the basin containment area exploded in growth and took DAR and City crews completely by surprise. By January 2003, Salvinia had covered approximately 90% of the Lake's surface water area (270 acres) and posed the threat of a massive fish kill and a potential public health disaster.

In early February, the Governor designated DLNR as the lead agency in addressing the infestation of Salvinia and deemed the infestation at the Lake a State priority. DLNR along with the help of others, developed a three-pronged short term action plan to combat the infestation as follows:

1. Establish three extraction sites using heavy equipment consisting of an excavator, front-end loaders and dump trucks with supporting services. Two to four boats with oil booms would be used to round-up the Salvinia and pull it towards the extraction sites. Initially, the State, City and the Military would provide their own manpower and resources to outfit their respective extraction site. Should additional resources become available and if suitable sites are located, one to two more extraction sites would be mobilized into operation. Landowners provided a disposal area (approximately 30 acres) in their fallow fields and will later mulch and compost the weed material for use on their planting fields.
2. Herbicide spraying of AquaMaster will be used to kill and/or retard the growth of Salvinia so that extraction activities can over-take the exponential growth rate of the weed. AquaMaster is an Environmental Protection Agency approved herbicide for use in aquatic environments. The herbicide is bio-degradable, has a short residual time and becomes inactive upon contact with soil. The active ingredient, glyphosate, is a common herbicide in products approved for use for home and garden weed control.
3. Last prong of the short-term plan is to solicit community support and volunteers to clear areas where the main extraction efforts cannot reach (e.g. along the edges of the Lake, between fallen tree branches, areas inaccessible by larger boats, etc.).

Extraction Timetable:

- Remove 2 acres of Salvinia per day per extraction site (State, City & Military).
- Goal: 6 acres of Salvinia removed per day.
- Approximate coverage of Lake = 90% or 270 acres
- Estimated time needed for removal = 45 "working days" or 9 weeks

The three major extraction sites were in operation 10 hours a day, 6 days a week from February 18 to April 15, 2003 at which time it was estimated that approximately 95% of the Lake had been cleared. Extraction continued in the harder to reach areas and along the edges of the Lake until early June 2003 when the Lake was re-opened for public use.

5.3.2 Solid and Hazardous Waste Branch Mercury Recovery Project

On December 2, 2002, the Deputy Director of Environmental Health and the Superintendent of the Department of Education signed a Memorandum of Agreement to establish a partnership between the DOH and the DOE in a Mercury Reduction project. The overall program included collecting mercury from schools, educating teachers, parents and students about the dangers of mercury, and using the schools as the collection points for household collections on the four major islands. The DOH also partnered with the Hawaii Dental Association to allow neighbor island dentists to participate in the household collections.

To facilitate effective collections, the DOH worked with the Hawaii Pharmacists Association to establish discounts on non-mercury replacements. Households participating in the collection received discount coupons redeemable at participating retailers on each island.

Below are the results from the collections.

- 1,288 pounds of mercury collected from DOE schools
- 1,500 thermometers collected from households
- 187 pounds of mercury from neighbor island dentist

The cost for the collection and disposal of the exchange program was approximately \$173,000. The ERRF contributed \$138,950 to the project. In comparison, the clean-up cost for 35 pounds of mercury in the Puuwai Momi housing project (in the Halawa area on Oahu) in 2001, cost the DOH approximately \$650,000.

APPENDIX A

FY 2003 DEPARTMENT OF HEALTH

ENVIRONMENTAL HEALTH ADMINISTRATION

HAZARD EVALUATION AND EMERGENCY RESPONSE

OFFICE

STATE PRIORITY LIST

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APPENDIX A:

DOH EHA HEER Office State Priority List FY 2003

Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Hawaii	Captain Cook	Ataraxia Farms		ISST	1/20/2004	Ongoing
		MacFarms of Hawaii, Inc.-UST Closure 89-406 Mamalahoa Hwy	NFA on 2/3/2000	ISST	2/3/2000	NFA
Hawaii	Hakalau	Hakalau Seed Plant		Unreg UST	1/20/2004	Ongoing
Hawaii	Halaula	Tannery Site - Hawi	NFA on 4/15/1996	ISST	4/15/1996	NFA
Hawaii	Hamakua	Hamakua Sugar Company, Inc.-Haina Sugar Mill (Reports)	Low on 4/3/1998	Remedial	1/20/2004	Ongoing
Hawaii	Hilo	Army Aviation Support Facility #2 Building 619		DS1	5/1/1988	Ongoing
		Equilon Enterprises LLC-Hilo Terminal 661 Kalaniana'ole Ave		ISST	1/20/2004	Ongoing
		Exempt UST Closure at Excelsior Dairy 458 Kekuanaoa St		Unreg UST	1/20/2004	Ongoing

DOH EHA HEER Office State Priority List FY 2003

Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Hawaii	Hilo	Facility Response Plan for BHP Petroleum Americas Terminals Inc 595 Kalaniana'ole Ave		ISST	1/20/2004	Ongoing
		GTE Hawaiian Tel - Kawai'ani Central Office (Hilo) Chlordane Release 440 W Kawai'ani St		ISST	1/20/2004	Ongoing
		Hatada Bakery, Former 55 Kuku'au St	Medium on 6/4/1999	Remedial	1/20/2004	Ongoing
		Hawaii Pest Control 56 Wiwoole St	High on 3/3/1997	Remedial	5/29/2003	Refer to SHWB
		HIANG GENERAL LYMAN FIELD		Research	1/20/2004	Ongoing
		HIANG HILO		Research	1/20/2004	Ongoing
		HIARNG-Keaukaha Military Reservation		Research	1/20/2004	Ongoing
		Hilo Arsenic Spill Site 33 Lilioukalani Ln	NFA on 8/28/1997	SI1	1/20/2004	Ongoing
		Hilo Bay Front Soccer Field Kamehameha Ave & Ponohawai St		Remedial	2/27/2003	Refer to HEER EP&R
		Hilo Landfill (HID000606582) Leilani St	Low on 3/26/1996	Remedial	1/20/2004	Ongoing
		Hilo Mechanical, Inc. 50 Holomua St	NFA on 3/23/1995	ISST	3/23/1995	NFA
		Hilo Quality Cleaners 865 Kinoole St	NFA on 12/2/1996	ISST	12/2/1996	NFA

DOH EHA HEER Office State Priority List FY 2003

Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Hawaii	Hilo	Hilo Quality Washerette 210 Hoku St		ISST	1/20/2004	Ongoing
		Hilo Soda Works Tank Closure 270 Kawili St	NFA on 7/15/1997	ISST	7/15/1997	NFA
		Hilo Terminal Chevron 666 Kalaniana'ole Ave		ISST	1/20/2004	Ongoing
		Hilo Wood Treating, Inc. 66 Kukila St		Remedial	4/25/2002	Refer to SHWB
		HPM Building Supply DBA-Hawaii Wood Protection, Inc. 150 Keaa St		ISST	1/20/2004	Ongoing
		Kawailani Laundromat 511 W Kawailani St	Low on 9/8/1998	Remedial	1/20/2004	Ongoing
		Keaukaha Military Reservation Container Disposal		Remedial	1/20/2004	Ongoing
		KPUA Emergency Broadcast Radio Station 58 Manaolana Pl	NFA on 12/11/1997	ISST	12/11/1997	NFA
		KTA/Davies Property 500 Kalaniana'ole Hwy	Medium on 3/11/1999	Remedial	1/20/2004	Ongoing
		Laehala Street Dumping Laehala St	NFA on 11/4/1998	ISST	11/4/1998	NFA
		Pohakuloa Training Center Saddle Rd		Remedial	1/20/2004	Ongoing
		Roberts Bakery Inc. Boiler UST Removal 374 Kinoole St	NFA on 1/7/1997	ISST	1/7/1997	NFA

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Hawaii	Hilo	Sun Sun Lau Chop Suey House (Report) 1055 Kinoole St	Low on 1/7/1997	Remedial	1/20/2004	Ongoing
		Tesoro Hawaii Corporation, Terminal Department-701 Kalaniana'ole 701 Kalaniana'ole Ave		ISST	1/20/2004	Ongoing
		Texaco Hilo Sales Terminal 999 Kalaniana'ole Ave	Medium on 11/8/2000	Remedial	1/20/2004	Ongoing
		The Estate of Charles Shiroma (Reports) 916 Ainaola Dr	NFA on 1/6/1999	ISST	1/6/1999	NFA
		TOSCO Corporation-Hilo Terminal (0276) 607 Kalaniana'ole Ave		ISST	1/20/2004	Ongoing
		UH Hilo Pacific Aquaculture and Ocean Resources Center		Brownfields TSA	3/17/2003	Complete
		University of Hawaii-Hilo Auto Shop 200 W Kawili St		ISST	1/20/2004	Ongoing
		USDA Forest Service PSW Experimental Station 1643 Kilauea Ave	NFA on 4/15/1996	ISST	4/15/1996	NFA
		Waiakea Pond/Hawaii Cane Products Plant	Medium on 12/29/1991	Remedial	1/20/2004	Ongoing
		Wailuku River Hydroelectric Project		ISST	1/20/2004	Ongoing
		Wainaku Mill	Low on 7/6/1995	Remedial	1/20/2004	Ongoing
		Western Auto Store Petroleum Release 141 Haili St		ISST	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Hawaii	Hilo	Young Brothers, Pier 2, Hilo		ISST	1/20/2004	Ongoing
Hawaii	Honokaa	DOH Honokaa 45-3380 Mamane St	Low on 8/28/1997	Remedial	1/20/2004	Ongoing
Hawaii	Kailua-Kona	Alamo Rent A Car, Keahole Airport Keahole Airport Rd	Low on 1/12/1995	Remedial	1/20/2004	Ongoing
		Firestone Service Center 75-5629 Palani Rd	NFA on 12/11/2001	ISST	12/11/2001	NFA
		Hawaiian Airlines - Kona Fuel Farm Keahole Airport Rd	NFA on 6/4/1999	Remedial	1/20/2004	Ongoing
		Honokohau Industrial Park-Lower Boat Park Soil Contamination Queen Kaahumanu Hwy	Low on 7/3/2001	Remedial	1/20/2004	Ongoing
		Kailua-Kona Landfill	NFA on 4/29/1996	ES1	1/20/2004	Ongoing
		Kona Airport Fire Training Area 73-200 Kupipi St		ISST	1/20/2004	Ongoing
		Pawai Street Oil/Diesel Minor Leak 74-5603 Pawai St	Low on 12/7/2001	Remedial	1/20/2004	Ongoing
		Snow White Linen, Former (Report) 75-5705 Kuakini Hwy	Low on 11/2/1998	Remedial	1/20/2004	Ongoing
		Tosco Bulk Plant #0316 74-5558 Kaiwi St	Low on 1/18/2002	Remedial	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Hawaii	Kamoa-Puueo	Hawaiian Home Lands-South Point	NFA on 4/15/1996	ISST	4/15/1996	NFA
Hawaii	Kamuela	Kamuela Baseyard		ISST	1/20/2004	Ongoing
		TOSCO Kawaihae Terminal 1 Kawaihae Rd		ISST	1/20/2004	Ongoing
		Yamada & Sons Trucking Diesel Spill Kawaihae Rd	NFA on 6/4/1999	ISST	6/4/1999	NFA
Hawaii	Kapoho	Hawaii Geothermal Project	NFA on 4/15/1996	ISST	4/15/1996	NFA
		Kapoho Scientific Observation Holes #1 and #2 Drilling Mud Toxicity Study		ISST	1/20/2004	Ongoing
Hawaii	Kau	Kahuku Ranch Stained Soils		Remedial	1/20/2004	Ongoing
Hawaii	Kawaihae	Pioneer Lumber Maluokalani St		ISST	1/20/2004	Ongoing
Hawaii	Keaau	Keaau VRP Site Old Volcano Rd		VRP	1/20/2004	Ongoing
		Nakamura Sales & Service Site [Former] 16-541 Old Volcano Rd	Low on 3/3/1999	Remedial	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Hawaii	Keaau	Puna Sugar Mill		PA1/SI1	1/20/2004	Ongoing
Hawaii	Kealakekua	KKON Emergency Broadcast Radio Station Nani Kapuna Dr	NFA on 3/23/1995	ISST	3/23/1995	NFA
		Napoopoo Beach Road TMK No. 8-2-05:31 Napoopoo Beach Rd	NFA on 1/12/1995	ISST	1/12/1995	NFA
Hawaii	Kukaiau	Kukaiau Pump System		ISST	1/20/2004	Ongoing
Hawaii	Laupahoehoe	Laupahoehoe High and Elementary School- Building A Kamehameha Hwy		Unreq UST	1/20/2004	Ongoing
Hawaii	Mauna Kea	Motorola Iolehaehae Diesel Generator Site	Low on 6/9/1998	Remedial	1/20/2004	Ongoing
Hawaii	Miolii	Remote Location above Milolii		ISST	1/20/2004	Ongoing
Hawaii	Naalehu	Kawaihae Ranch Diesel USTs		ISST	1/20/2004	Ongoing
		Kawaihae Ranch Weedone Release		ISST	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Hawaii	Naalehu	Naalehu/Hawaii Petroleum Distributors Tanker Diesel Spill Waiohinu Hwy		ISST	1/20/2004	Ongoing
Hawaii	Ookala	Ookala Sugar Mill Boiler UST (Report) Old Mamalahoa Hwy	NFA on 3/4/1997	ISST	3/4/1997	NFA
Hawaii	Paauilo	Hamakua Sugar Company, Inc. Ookala Fuel Station		ISST	1/20/2004	Ongoing
		Hamakua Sugar Company, Inc.-Paauilo		ISST	1/20/2004	Ongoing
Hawaii	Pahala	Ka'u Agribusiness, Herbicide Mixing Plant (HMP)	Medium on 1/24/2000	Remedial	1/20/2004	Ongoing
		Ka'u Sugar Mill		PA1/S11	1/20/2004	Ongoing
Hawaii	Pahoa	Pahoa Beacon		ISST	1/20/2004	Ongoing
		Puna Geothermal Venture (HID984469536) 14-3860 Kapoho-Pahoa Rd	NFA on 4/15/1996	ISST	4/15/1996	NFA
Hawaii	Papaikou	Brewer Hilo Coast Processing Papaikou Mil Oil Spill		ISST	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Hawaii	Pepeekeo	Hilo Coast Processing (HID066259938) 1 Mill Rd	NFA on 4/12/1996	ISST	4/12/1996	NFA
		Hilo Coast Processing Co.-Coal Ash Site 1 Mill Rd	NFA on 7/5/2001	ISST	7/5/2001	NFA
		Transformer from Case 19970814-1134 1 Mill Rd		ISST	1/20/2004	Ongoing
Hawaii	Puna	Ahalanui Park Thermal Pond		Risk Assessment	11/27/2002	Refer to CWB
Hawaii	South Kohala	Hawaiian Electric Industries Lalamilo Windfarm	Low on 9/8/1998	Remedial	1/20/2004	Ongoing
Hawaii	Volcano	Kilauea Military Reservation		ISST	1/20/2004	Ongoing
		Removal of 15,000-Gallon Aboveground Storage Tank	Low on 6/22/1999	Remedial	1/20/2004	Ongoing
		Removal of Electrical Equipment		ISST	1/20/2004	Ongoing
Hawaii	Waiakea Uka	Waiakea Uka Arsenic		Risk Assessment	5/6/2002	Complete

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Hawaii	Waikoloa	Waikoloa Landfill	NFA on 4/29/1996	ISST	4/29/1996	NFA
Hawaii	Waikoloaville	Hyatt Waikoloa 1 Waikoloa Beach Resort		ISST	1/20/2004	Ongoing
Hawaii	Waimea	Waimea Landfill Kawaihae/Kohala Hwy	NFA on 10/29/1996	ISST	10/29/1996	NFA
Hawaii	Waiohinu	Waiohinu Landfill Hawaii Belt Rd & Kaulia Rd	NFA on 4/29/1996	ISST	4/29/1996	NFA
Kahoolawe	Kahoolawe	Kahoolawe Island (HI6170090074)		DS1	3/3/1992	Ongoing
Kauai		Wailua Bay Reservoir	NFA on 6/26/1997	ISST	6/26/1997	NFA
Kauai	Barking Sands	Kauai Test Facility (HID984469908) 1 Doe Trail		ISST	1/20/2004	Ongoing
Kauai	Eleele	Kauai Electric-EMD Lube Oil Berm at Eleele Port Allen Generation Station 4392 Waialo Rd		ISST	1/20/2004	Ongoing
		Port Allen Generator Unit Number 5 4392 Waialo Rd		ISST	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Kauai	Hanalei	Hanalei Landfill 5-3781 Kuhio Hwy	NFA on 4/29/1996	ISST	4/29/1996	NFA
Kauai	Hanamaulu	Lihue Plantation Co., Ltd. Hanamaulu Truck Shop		PA1/SI1	1/20/2004	Ongoing
Kauai	Honolulu	Nawiliwili Harbor Pier 3 Bollard Foundation Construction Waapa Rd	NFA on 7/6/1995	ISST	7/6/1995	NFA
Kauai	Kapaa	4-1532 Kuhio Hwy. Site Assessment 4-1532 Kuhio Hwy		ISST	1/20/2004	Ongoing
		Coco Palms Resort USTs 4-241 Kuhio Hwy	NFA on 7/5/2001	ISST	7/5/2001	NFA
		Kapaa Landfill Opala Road Opala Rd		ISST	1/20/2004	Ongoing
		Wailua Bay Resort Tank Removal 3-5920 Kuhio Hwy	NFA on 6/27/1997	ISST	6/27/1997	NFA
		Wailua Homestead Wells Kiowai Pl	High on 4/10/2000	Remedial	1/20/2004	Ongoing
Kauai	Kealia	Waiakea Road Contaminated Soils 6890 Waiakea Rd		ISST	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Kauai	Kekaha	Amfac Kekaha Field 108 Leaking Transformers	NFA on 7/15/1997	ISST	7/15/1997	NFA
		HIANG Kekaha Kekaha Rd		Remedial	1/20/2004	Ongoing
		Kekaha Landfill (HID980370076) 6900 Kaumualii Hwy	NFA on 4/29/1996	ISST	4/29/1996	NFA
		Kekaha Sugar Co., Ltd. 8315 Kekaha Rd	High on 11/8/2001	SI1	1/20/2004	Ongoing
		Kekaha Sugar Co., Ltd. Former Wood Treatment Plant		PA1/SI1	1/20/2004	Ongoing
		Kekaha Sugar Co., Ltd. Kekaha Sugar Mill		PA1/SI1	1/20/2004	Ongoing
		Kekaha Sugar Co., Ltd. Seed Dipping Plant		PA1/SI1	1/20/2004	Ongoing
		Kekaha Sugar Co., Ltd. Settling Pond		PA1/SI1	1/20/2004	Ongoing
		Pacific Missile Range Facility (HI6170024719) W Kamualii Hwy	Low on 4/29/1996	Remedial	1/20/2004	Ongoing
		Pacific Missile Range Facility DSMOA W Kamualii Hwy	Low on 8/1/1995	Remedial	1/20/2004	Ongoing
Kauai	Kokee	Kokee Landfill	NFA on 4/29/1996	ISST	4/29/1996	NFA

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Island	Locality	Site Name	Priority Ranking	Activity Status		
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Kauai	Koloa	Stouffer Poipu Beach Resort 2251 Poipu Rd		Unreg UST	1/20/2004	Ongoing
		Up to Date Cleaners 3145 Akau Rd		ISST	1/20/2004	Ongoing
Kauai	Lawai	Lawai Valley Cannery PCB in Deep Well 3580 Lauoho Rd		ISST	1/20/2004	Ongoing
Kauai	Lihue	Elima Road Soil Stock Pile 3428 Elima Rd		ISST	1/20/2004	Ongoing
		Former Masterworks at Lihue Airport 3130 Ahukini Rd	Medium on 2/22/1999	Remedial	1/20/2004	Ongoing
		GTE-Hawaiian Tel 4444 Rice St	NFA on 3/3/1999	ISST	3/3/1999	NFA
		Halehaka Landfill Halehaka Rd	NFA on 4/29/1996	ISST	4/29/1996	NFA
		Kauai Hilton Beach Villas (Kauai Outrigger)- USTL 4331 Kauai Beach Dr	NFA on 2/3/2000	ISST	2/3/2000	NFA
		Kauai Westin 3500 Rice St		Unreg UST	1/20/2004	Ongoing
		Lihue Plantation Company, Ltd. 2940 Haleko Rd	High on 11/8/2001	PA1/SI1	1/20/2004	Ongoing
	Nawiliwili Fuel Distribution Terminal 3145 Waapa Rd		ISST	1/20/2004	Ongoing	

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Island	Locality	Site Name	Priority Ranking	Activity Status		
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Kauai	Lihue	Nawiliwili Harbor Pier 1 Fuel Contamination	Low on 2/12/1996	Remedial	1/20/2004	Ongoing
		Nawiliwili Harbor Pier 2 Oil Spill		ISST	1/20/2004	Ongoing
		Project Faith Kuihio Hwy		Brownfields TSA	1/20/2004	Ongoing
		The Lihue Plantation Co., Ltd. Lihue Sugar Mill EPA ID No. HIN000905691		PA1/SI1	1/20/2004	Ongoing
		The Lihue Plantation Co., Ltd. Seed Dipping Plant		PA1/SI1	1/20/2004	Ongoing
		The Lihue Plantation Co., Ltd. Settling Pond		PA1/SI1	1/20/2004	Ongoing
Kauai	Port Allen	Port Allen Bulk Petroleum Storage Terminal 4350 Waialo Rd		ISST	1/20/2004	Ongoing
Kauai	Puhi	Brewer Chem Corporation, Puhi 3-1480 Kaumualii Hwy	Medium on 11/2/1994	Remedial	1/20/2004	Ongoing
Kauai	Wailua	Coco Palms Sewer Pump Station 4511 Haleilio Rd	Medium on 3/21/1995	Remedial	1/20/2004	Ongoing
		Kauai Agricultural Research Center (Agent Orange/Pesticide Sites)	High on 10/8/1999	PA1	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
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Kauai	Waimea	Borden Meadow Gold Dairy 9250 Kaumualii Hwy	Low on 6/26/1997	Remedial	1/20/2004	Ongoing
		Former Downie's Unocal 9949 Waimea Rd		ISST	1/20/2004	Ongoing
		Kauai Veterans Memorial Hospital Waimea Canyon Rd		Risk Assessment	6/26/2002	Complete
		Kikiaola Beach		Archive	1/23/1996	NFA
		Kokee Air Force Station (HI0570096487) Kokee Rd		ISST	1/20/2004	Ongoing
		Meadowgold Facility Waimea Kauai 9250 Kaumualii Hwy	Low on 9/17/1998	Remedial	1/20/2004	Ongoing
Kure Atoll	Kure Atoll	Kure Atoll, U.S. Coast Guard		SI1	1/20/2004	Ongoing
Lanai		Lanai Chemical Mixing Area	NFA on 3/25/1996	ISST	3/25/1996	NFA
		Lanai DDT Storage Tank Area	NFA on 3/25/1996	ISST	3/25/1996	NFA
		Lanai Drum Site No. 1	NFA on 3/25/1996	ISST	3/25/1996	NFA
		Lanai Drum Site No. 2	NFA on 3/26/1996	ISST	3/26/1996	NFA
		Lanai Drum Site No. 3	NFA on 3/25/1996	ISST	3/25/1996	NFA

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Island	Locality	Site Name	Priority Ranking	Activity Status		
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Lanai		Lanai Dump Site	NFA on 3/27/1996	ISST	3/27/1996	NFA
		Lanai Dump Site Palawi Basin	NFA on 3/25/1996	ISST	3/25/1996	NFA
Lanai	Lanai	Kaumalapau Harbor		ISST	1/20/2004	Ongoing
		Koele Lodge Diesel Spill		ISST	1/20/2004	Ongoing
Lanai	Lanai City	Dole Plantation (HID000626754) Palawai St		ISST	1/20/2004	Ongoing
		Lanai Company Manele Bay Golf Course Development		ISST	1/20/2004	Ongoing
		Lanai Landfill Kaumalapau Hwy	NFA on 4/29/1996	ISST	4/29/1996	NFA
		Manele Bay Boat Harbor Diesel Fuel Spill	NFA on 7/23/1999	ISST	7/23/1999	NFA
Lanai	Lihue	Lihue Plantation Company, Ltd. Lihue Herbicide Mixing Plant		PA1/SI1	1/20/2004	Ongoing
Maui		A&B Parcel		Remedial	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
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Maui	Haiku	Maui Pesticide Haiku Site 148 W Kailua Rd		Removal	1/20/1988	Complete
		Maui Pesticide Pauwela Road Site Haiku Rd & Pauwela Rd		Removal	1/20/1988	Complete
Maui	Haliimaile	Maui Land & Pineapple Co 870 Haliimaile Rd		ISST	1/20/2004	Ongoing
Maui	Hana	Hana Landfill	NFA on 4/15/1996	ISST	4/15/1996	NFA
Maui	Kaanapali	Consolidated Metals, Inc. 1505 Kaanapali Pkwy		Research	1/20/2004	Ongoing
Maui	Kahului	65 Kahului Beach Road 65 Kahului Beach Rd	NFA on 6/25/1998	ISST	6/25/1998	NFA
		Alexander and Baldwin Dump Site W Papa Ave	Medium on 10/26/1998	Remedial	1/20/2004	Ongoing
		Bird Builders Amala PI	Medium on 12/21/1998	SI1	1/20/2004	Ongoing
		Chevron Kahului Bulk Terminal 100 Hobron Ave	Medium on 10/29/1998	Remedial	1/20/2004	Ongoing
		E & E Black Contractors Amala PI		ISST	1/20/2004	Ongoing

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Maui	Kahului	F & M Contractors, Inc. Amala PI		SI1	1/20/2004	Ongoing
		Fong Construction Petroleum Hydrocarbon Contamination Hukiliki St		ISST	1/20/2004	Ongoing
		Hawaii Wood Preserving Co. (Osmose) 356 Hanakai St		ISST	1/20/2004	Ongoing
		HIANG KAHULUI		Research	1/20/2004	Ongoing
		Hobron Avenue Area Hobron Ave		Remedial	1/20/2004	Ongoing
		Kahului Wastewater Reclamation Facility 30 Gallon Diesel Release 281 Amala PI	NFA on 2/28/2001	ISST	2/28/2001	NFA
		Kanaha Pond Industrial East Site Amala PI	NFA on 11/27/2001	ISST	11/27/2001	NFA
		Kanaha Pond Industrial Site		DS1	3/18/1994	NFA
		Kanaha Pond Industrial West Site 261 Amala PI	Medium on 9/8/1998	SI1	1/20/2004	Ongoing
		Kealia Pond Contaminants Survey		Risk Assessment	5/24/2000	Complete
King's Towing Amala PI		ISST	1/20/2004	Ongoing		
Maui Business Park Oil Contamination 370 Dairy Rd	Low on 2/16/1996	Remedial	1/20/2004	Ongoing		

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Maui	Kahului	Maui Meat Facility-Former 601 2nd St	NFA on 12/11/1998	Remedial	1/20/2004	Ongoing
		Maui Palms Hotel UST 150 Kaahumanu Ave	NFA on 11/22/1999	ISST	11/22/1999	NFA
		Maui Petroleum Hobron Ave		Remedial	1/20/2004	Ongoing
		Maui Shell		Remedial	1/20/2004	Ongoing
		MCC-Lead Contamination from Washing Operations 310 Kaahumanu Ave	NFA on 4/4/2003	ISST	4/4/2003	NFA
		Opala Partners Diesel Release 221 Lalo Pl	NFA on 1/18/2002	ISST	1/18/2002	NFA
		Rainbow Hauling Amala Pl	Low on 12/21/1994	Remedial	1/20/2004	Ongoing
		Rex Tire Diesel 1728 Kaahumanu Ave		Unreq UST	1/20/2004	Ongoing
		Sears Auto Center PCB Contamination 275 Kaahumanu Ave		ISST	1/20/2004	Ongoing
		Shell Kahului Bulk Terminal 60 Hobron Ave		Remedial	1/20/2004	Ongoing
		Smile's Auto Specialists Amala Pl		ISST	1/20/2004	Ongoing
		Snow White Linen Solvent Contamination 312 Alamaha Pl		ISST	1/20/2004	Ongoing

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Maui	Kahului	TOSCO Bulk Plant Number 0323 76 Hobron Ave	Medium on 3/2/1995	Remedial	1/20/2004	Ongoing
		Vector Control Branch Maui 54 High St, 641 Mua St, Kahale Dr & Palapala St	NFA on 4/25/1996	ISST	4/25/1996	NFA
		VIP Warehouse 74 Hobron Ave		Remedial	1/20/2004	Ongoing
		Waikapu Dump Waikapu Rd	NFA on 4/29/1996	ISST	4/29/1996	NFA
		Young Brothers Kahului 65 Wharf St		Unreg UST	1/20/2004	Ongoing
Maui	Kihei	Selland Construction, Inc., Kihei Base Yard 454 Ohukai Rd	Low on 7/6/1995	Remedial	1/20/2004	Ongoing
Maui	Lahaina	Lahaina Cannery Mall 1221 Honoapiilani Hwy		ISST	12/19/2003	NFA
		Lahaina Waste Water Pump Station #4 Ala Moana St	NFA on 4/10/2000	ISST	4/10/2000	NFA
		Maui Disposal Company Ammonia Dumpin		ISST	1/20/2004	Ongoing
		Pioneer Mill--Lahaina 380 Lahainaluna Rd	High on 11/14/2001	PA1/SI1	1/20/2004	Ongoing
		Royal Lahaina Resort UST Removal 2780 Kekaa Dr		Unreg UST	1/20/2004	Ongoing

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Maui	Maalaea	Maalaea Power Plant N Kihei Rd		ISST	1/20/2004	Ongoing
Maui	Makani	Makani Landfill	NFA on 4/15/1996	ISST	4/15/1996	NFA
Maui	Makawao	Maunaolu-Smith Well		ISST	1/20/2004	Ongoing
Maui	Napili	Napili Waste Water Pump Station #5 Lower Honoapiilani Hwy	NFA on 4/10/2000	ISST	4/10/2000	NFA
Maui	Olowalu	Olowalu Transfer Station (HID980497283)	NFA on 4/15/1996	ISST	4/15/1996	NFA
Maui	Paia	Paia Sugar Mill Baldwin Ave		PA1/SI1	1/20/2004	Ongoing
Maui	Pukalani	Maui Corn Mill Camp VRP Site Makawao Ave		VRP	1/20/2004	Ongoing
Maui	Puunene	Cane Hauler Shop Hansen Rd		ISST	1/20/2004	Ongoing
		Haleakala ATCBI	NFA on 4/8/1999	ISST	4/8/1999	NFA

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Maui	Puunene	Maui Wood Treating Co. Ltd. Mokulele Hwy		ISST	1/20/2004	Ongoing
		Puunene Airport Soil Contamination		ISST	1/20/2004	Ongoing
Maui	Wailuku	Maui Sandtorches 46 Ting Dr	NFA on 4/15/1996	ISST	4/15/1996	NFA
		Organizational Maintenance Shop #3 (OMS #3) 260 S Market St		Research	1/20/2004	Ongoing
		Valley Isle Motors Leaking UST 2026 Main St		Unreq UST	1/20/2004	Ongoing
		Vineyard Street Tank Closure 2102 Vineyard St	NFA on 12/11/1997	ISST	12/11/1997	NFA
		Waiale Ash Pile Mahalani St	High on 8/10/2000	Remedial	1/20/2004	Ongoing
		Y. Hata & Company, Ltd. Kahulu Beach Rd & Waiehu Beach Rd		ISST	1/20/2004	Ongoing
		Yee-Maui Terminix 283 Waiehu Beach Rd		VRP	1/20/2004	Ongoing
Molokai		Leaking Transformer		ISST	1/20/2004	Ongoing
		Molokai Oil		Research	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Molokai	Kalamaula	Kalamaula Landfill (HID980497192) Hoawa Rd	NFA on 3/11/1996	ISST	3/11/1996	NFA
Molokai	Kalaupapa	Kalaupapa Settlement Clean Up		Ongoing	1/20/2004	Ongoing
		Kalaupapa Settlement Drum Removal		ISST	1/20/2004	Ongoing
Molokai	Kaunakakai	Ben Franklin Stores Property	NFA on 4/13/1995	ISST	4/13/1995	NFA
		Hawaiian Eye Center 10 Mohala St	Low on 10/14/1994	Remedial	1/20/2004	Ongoing
		Island Petroleum, Inc. Beach Pl & Wharf Rd		ISST	1/20/2004	Ongoing
		Kaunakakai Petroleum Contaminated Area		ISST	1/20/2004	Ongoing
		Molokai Community Service Center Kamehameha Hwy & Mohala St		ISST	1/20/2004	Ongoing
		Molokai Ranch Kamehameha V Highway and Mohala Street Kamehameha V Hwy and Mohala St		ISST	1/20/2004	Ongoing
		Molokai Ranch Yard, UST Removal Wharf Rd		Unreg UST	1/20/2004	Ongoing
		Rawlin's Chevron Service 20 Maunaloa Hwy		ISST	1/20/2004	Ongoing

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				Type	Date	Result
Molokai	Maunaloa	Molokai Ranch Maunaloa Landfill (HID980497267)	NFA on 4/29/1996	ISST	4/29/1996	NFA
Molokai	Molokai	Kualapuu Well 17		ISST	1/20/2004	Ongoing
Oahu	Aiea	Aiea Heights Tanks 1294 Aiea Heights Dr		ISST	1/20/2004	Ongoing
		Aiea Stream 99-193 Aiea Heights Dr		Remedial	1/20/2004	Ongoing
		C&C Halawa Corporation Yard Petroleum Release Iwaena St		ISST	1/20/2004	Ongoing
		Former Aiea Sugar Mill 99-193 Aiea Heights Dr		VRP	1/20/2004	Ongoing
		Grace Pacific Corporation 99-1300 Halawa Valley St		ISST	1/20/2004	Ongoing
		Halawa Animal Quarantine Station 99-941 Halawa Valley St		ISST	1/20/2004	Ongoing
		Hawaii Baking Company 98-736 Moanalua Lp		ISST	1/20/2004	Ongoing
		Hawaiian Sugar Planter's Association Kuni Substation 99-193 Aiea Heights Dr	Medium on 1/29/1996	Remedial	1/20/2004	Ongoing
		Hydraulic Hoist Removal 98-080 Kamehameha Hwy		ISST	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Aiea	OIL RELEASE FROM UST DISCOVERED DURING REMOVAL. 99-1100 Halawa Valley St		ISST	1/20/2004	Ongoing
		Sears Facility #1578 at Pearlridge Mall 98-180 Kamehameha Hwy	Low on 6/7/2000	Remedial	1/20/2004	Ongoing
Oahu	Aliamanu	Aliamanu Military Reservation		DSMOA	1/20/2004	Ongoing
		ALIAMANU RESIDENTIAL		Research	1/20/2004	Ongoing
Oahu	Barbers Point	Barbers Point Harbor Contaminated Soil Transfer (Kwajalein Causeway Project)	Refer to SHWB on 12/	ISST	1/20/2004	Refer to SHWB
		Barbers Point Naval Air Station, Landfill		DSMOA	1/20/2004	Ongoing
		Barbers Point Naval Air Station, NEX Service Station	NFA on 11/20/1995	ISST	11/20/1995	NFA
		Barbers Point Naval Air Station, Ordy Pond	Medium on 11/20/1995	Remedial	1/20/2004	Ongoing
		Barbers Point Naval Air Station; Coral Pit, Ordnance Pond, Sanitary Landfill	Medium on 7/6/1995	Remedial	1/20/2004	Ongoing
		Barbers Point Naval Air Station-Former Sewage Treatment Plant	Low on 1/29/1996	Remedial	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Barbers Point	Barbers Point Navy Public Works Center		ISST	1/20/2004	Ongoing
Oahu	Ewa	Ewa Sugar Mill/Oahu Sugar Co. Renton Rd		ISST	1/20/2004	Ongoing
Oahu	Ewa Beach	Ala Kona Corporation 91-1205 Renton Rd		ISST	1/20/2004	Ongoing
		Ewa Repair Shop/Tesoro (Fort Weaver Road) 91-1669 Fort Weaver Rd		Remedial	3/19/2003	Refer to SHWB
		Ewa Sugar Mill/Oahu Sugar Co. - Coral Wastepit	NFA on 1/16/2001	ISST	1/16/2001	NFA
		Ewa Sugar Mill/Oahu Sugar Co. - Ewa Sugar Mill Renton Rd		Remedial	1/20/2004	Ongoing
		Ewa Sugar Mill/Oahu Sugar Co. - Fumigant Storage Area Renton Rd	NFA on 8/10/2000	ISST	8/10/2000	NFA
		Ewa Sugar Mill/Oahu Sugar Co. - Pesticide Mixing/Loading Site Farrington Hwy	High on 10/17/2000	Remedial	1/20/2004	Ongoing
		Hawaii Raceway Park 91-201 Malakole St	Low on 12/12/1995	Remedial	1/20/2004	Ongoing
		Jackson Construction Landfill 91-891 Hananui St	Low on 2/8/1996	Remedial	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
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Oahu	Ewa Beach	Kapolei Fuel Spill Kamokila Blvd		ISST	1/20/2004	Ongoing
		Kenai Industrial Park, beyond the property line		ISST	1/20/2004	Ongoing
		Leeward Auto Wreckers, Inc. 91-209 Kuhela St	Medium on 2/12/1996	Remedial	1/20/2004	Ongoing
		Pacific Concrete & Rock LDFL 91-402 Farrington Hwy	NFA on 3/11/1996	ISST	3/11/1996	NFA
		Pepper Industries Inc. 91-294 Kauhi St	NFA on 3/11/1996	ISST	3/11/1996	NFA
		Puu Palailai Landfill 91-402 Farrington Hwy		ISST	1/20/2004	Ongoing
		Valley Detroit Diesel 91-265 Kalaeloa Blvd		Unreq UST	1/15/1993	NFA
		Zippy's Parcel 91-1669 Fort Weaver Rd	Low on 2/3/1999	Remedial	1/20/2004	Ongoing
Oahu	Fort Shafter	Fort Shafter Funston Rd		Remedial	1/20/2004	Ongoing
Oahu	Halawa Valley	Halawa Stream Channel Petroleum Contamination H-3	NFA on 9/8/1998	ISST	9/8/1998	NFA

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Island	Locality	Site Name	Priority Ranking	Activity Status		
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Oahu	Haleiwa	Former Haleiwa Canoe Club UST Closure C St		Unreg UST	1/20/2004	Ongoing
		Kawailoa Landfill Kawailoa Rd	NFA on 4/29/1996	ISST	4/29/1996	NFA
		Waimea Valley Adventure Park 59-864 Kamehameha Hwy		ISST	1/20/2004	Ongoing
Oahu	Hauula	Hanakailio Beach Hanakailio Beach		Removal	1/13/1989	Complete
Oahu	Hickam Air Force Base	Aircraft Reclamation (Pharmacy Area) AOC KNMD-EA12	Medium on 4/15/1996	Remedial	1/20/2004	Ongoing
		Battery Acid Neutralization Shop/Building 2002 (KNMD-EA05)	Medium on 1/29/1996	Remedial	1/20/2004	Ongoing
		Fort Kamehameha DSPL Site		DSMOA	1/20/2004	Ongoing
		Halemaka Street/Kuntz Avenue Motor Pool (AOC KNMD-EA58)	Low on 1/12/1996	Remedial	1/20/2004	Ongoing
		Hickam AFB Leak to Fuel Pit Near Building 228 91-150 Hanua St (?)		Research	1/20/2004	Ongoing
		Hickam Air Force Base		ISST	1/20/2004	Ongoing
		HICKAM POL PIPELINE		DSMOA	1/20/2004	Ongoing

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Oahu	Hickam Air Force Base	Industrial Waste Treatment and Disposal/Building 2016 (KNMD-EA09)	Medium on 1/29/1996	Remedial	1/20/2004	Ongoing
		Kipapa and Waikakalaua FSA and Hickam POL	High on 11/9/1995	Remedial	1/20/2004	Ongoing
		Kipapa Fuel Storage Annex		DS1	10/26/1994	Ongoing
		Kumumauu Canal (KNMD-SD03)	Medium on 11/20/1996	Remedial	1/20/2004	Ongoing
		Kuntz Avenue Entrance Dump Area (AOC KNMD-EA39) Kuntz Ave	Low on 2/15/1996	Remedial	1/20/2004	Ongoing
		Kuntz Avenue Entrance Salvage Yard (AOC KNMD-EA44) Kuntz Ave	Low on 2/15/1996	Remedial	1/20/2004	Ongoing
		Leach Field, Industrial Waste Disposal AOC KNMD-EA38	Medium on 4/15/1996	Remedial	1/20/2004	Ongoing
		Manuwai Canal Storm Drainage System (KNMD-SD02)	Medium on 11/9/1995	Remedial	1/20/2004	Ongoing
		Motor Pool Storm Drain (KNMD-SD04)	Medium on 11/20/1996	Remedial	1/20/2004	Ongoing
		Old HIANG Area Contaminated Soils (KNMD-EA11)	Medium on 1/29/1996	Remedial	1/20/2004	Ongoing
		Pesticide/Herbicide Vehicle Wash Area (near Building 1220) KNMD-EA08	Low on 4/15/1996	Remedial	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
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Oahu	Hickam Air Force Base	Pesticide/Herbicide Vehicle Wash Rack AOC KNMD-EA07	Medium on 4/15/1996	Remedial	1/20/2004	Ongoing
		Potential Landfill (Near LF14 and LF 15) AOC KNMD-EA01	NFA on 4/15/1996	ISST	4/15/1996	NFA
		South Tributary to the Kumumau'u Canal KNMD-EA70	Medium on 4/15/1996	Remedial	1/20/2004	Ongoing
		ST31 1046B Tank B St		ISST	1/20/2004	Ongoing
		ST38-3318B Underground Storage Tank		ISST	1/20/2004	Ongoing
		ST38-3318C Underground Storage Tank adjacent to Bldg. 3318 Battery House Hasebrouck		ISST	1/20/2004	Ongoing
		Transportation Squadron Contaminated Soi (KNMD-EA06)	Medium on 1/29/1996	Remedial	1/20/2004	Ongoing
		Tributary to Kumumau'u Canal, South of Old HIANG Area AOC KNMD-EA20	Medium on 4/15/1996	Remedial	1/20/2004	Ongoing
		Waikakalaua Fuel Storage Annex		Remedial	1/20/2004	Ongoing
	Wash Racks/Building 2025 and Near Building 1055 (KNMD-EA22)	Medium on 1/29/1996	Remedial	1/20/2004	Ongoing	

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Oahu	Honolulu	1510A Frear Street 1510 Frear St		ISST	1/20/2004	Ongoing
		2147 Aoao Street UST Removal 2147 Aoao St		ISST	1/20/2004	Ongoing
		2319 Ala Wai Blvd 2319 Ala Wai Blvd	NFA on 3/11/1996	ISST	3/11/1996	NFA
		373 North Nimitz Highway 373 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		420-470 North Nimitz Highway 420-470 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		725 Kapiolani Boulevard 725 Kapiolani Blvd		ISST	1/20/2004	Ongoing
		837 Kawaiahao Street 837 Kawaiahao St		Unreq UST	1/20/2004	Ongoing
		85-225D Plantation Road 85-225 Plantation Rd		ISST	1/20/2004	Ongoing
		861-869 North Nimitz Highway 861 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		ABC Disposal Company 2760 Kamehameha Hwy	NFA on 12/16/1994	ISST	12/16/1994	NFA
		ABC Store Underground Storage Tank Removal 2546 Lemon Rd		Unreg UST	1/20/2004	Ongoing
		Airport Group International, Incorp - Wiki 200 Rogers Pl		Remedial	1/20/2004	Ongoing

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Oahu	Honolulu	Ala Moana #2 WWPS 210 Keawe St		Remedial	1/20/2004	Ongoing
		Ala Wai Cove Condominium Apartments 509 University Ave		Unreg UST	1/20/2004	Ongoing
		Ala Wai Golf Course Maintenance Yard, Location "B" 404 Kapahulu Ave		Unreg UST	1/20/2004	Ongoing
		Allstate Industrial & Marine Cleaning, Inc.		Remedial	1/20/2004	Ongoing
		Aloha 7-Eleven Kalakaua 1323 Kalakaua Ave		ISST	1/20/2004	Ongoing
		Aloha Motors 1777 Kapiolani Blvd	NFA on 1/19/1995	ISST	1/19/1995	NFA
		Aloha Petroleum Terminal 739 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		Aloha Tower Development Nimitz Hwy	Medium on 12/15/1991	Remedial	1/20/2004	Ongoing
		Amelco Corporation 645 Halekauwila St	Low on 12/16/1994	Remedial	1/20/2004	Ongoing
		American Linen (Youngs Laundry & Dry Cleaning) 2771 Waiwai Lp	Low on 4/8/1999	SI1	1/20/2004	Ongoing
American Linen (Youngs Laundry & Dry Cleaning) 2771 Waiwai Lp	Low on 4/8/1999	Remedial	1/20/2004	Ongoing		

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Oahu	Honolulu	American Pacific Transport, Inc. Tank Removal 2635 Waiwai Lp		Unreg UST	1/20/2004	Ongoing
		Anin-Piikoi Building Site 1012 Piikoi St		Remedial	1/20/2004	Ongoing
		Atlas Electric Co. 1151 Mapunapuna St	NFA on 12/29/1995	ISST	12/29/1995	NFA
		BHP Gasco Benzene Site 432 Pacific St		Remedial	1/20/2004	Ongoing
		BHP Pier 29 739 N Nimitz Hwy	NFA on 6/26/1997	Remedial	1/20/2004	Ongoing
		Bilger Hall Mercury in Storm Catchment		ISST	1/20/2004	Ongoing
		Bilger Hall Sulfur Chloride Spill		ISST	1/20/2004	Ongoing
		BMW Dealership 777 Kapiolani Blvd	Low on 6/7/2000	Remedial	1/20/2004	Ongoing
		Brewer Environmental Industries-Pacific Street 311 Pacific St	Medium on 12/29/1995	Remedial	1/20/2004	Ongoing
		BTU Storage Tanks Pier 19		Remedial	1/20/2004	Ongoing
		Cartwright Neighborhood Park Keeaumoku St & Matlock Ave	Low on 11/22/1999	Remedial	1/20/2004	Ongoing
		Century Aviation Inc. 98 Kapalulu Pl	Medium on 3/9/2000	Unreg UST	1/20/2004	Ongoing

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Oahu	Honolulu	Chang-Chow Property North School Street Underground Storage Tank Closure 2161 N School St		Unreg UST	1/20/2004	Ongoing
		Chevron 2002 Kalakaua 2002 Kalakaua Ave	NFA on 10/1/1997	ISST	10/1/1997	NFA
		Chevron Honolulu Terminal Marine 777 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		Chevron Honolulu Transportation Terminal 933 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		Chevron Kapalama Northeast Parcel 1105 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		Chevron Kapalama Southwest Parcel 1105 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		Chevron Kapalama Terminal 1105 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		Chevron Pier 35 Pipeline Release 965 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		Chevron USA, Inc. 1001 Bishop St		Remedial	1/20/2004	Ongoing
		Chuei Shokoh, Inc. 825 Kapiolani Blvd		VRP	1/20/2004	Ongoing
		Citizens Energy Services Pier 38		Remedial	1/20/2004	Ongoing
		City & County Wastewater Collection System Maintenance Yard 98 Koula St	NFA on 7/9/2001	ISST	7/9/2001	NFA

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Oahu	Honolulu	City Mill Company, Ltd. 660 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		Coca-Cola Enterprises 949 Mapunapuna St		Risk Assessment	3/21/2003	Complete
		Continental Auto Services 1918 Alqaroba St	NFA on 10/8/1999	ISST	10/8/1999	NFA
		Cooke Street Lead Contamination 501 Cooke St	Low on 11/15/1996	Remedial	1/20/2004	Ongoing
		Costco Gas Station 925 Dillingham Blvd		Remedial	1/20/2004	Ongoing
		Costco Iwilei 525 Alakawa St		VRP	1/20/2004	Ongoing
		Cutter Chevrolet Hydraulic Lift 1391 Kapiolani Blvd		ISST	1/20/2004	Ongoing
		Cutter Dodge Dillingham 735 Dillingham Blvd		Remedial	1/20/2004	Ongoing
		Department of Transportation 727 Kakoi St	NFA on 4/15/1996	ISST	4/15/1996	NFA
		Diamond Head Crater Tunnel #6 3949 Diamond Head Rd	NFA on 10/29/1996	ISST	10/29/1996	NFA
		Dillingham and Mokauea Dillingham Blvd & Mokauea St	Low on 10/29/1996	Remedial	1/20/2004	Ongoing
Dillingham Boulevard Contaminated Soil 1199 Dillingham Blvd	Low on 7/23/1999	Remedial	1/20/2004	Ongoing		

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Oahu	Honolulu	DiMauro Properties Kaihikapu Street 2855 Kaihikapu St		ISST	1/20/2004	Ongoing
		DLNR Buried Drum Site Sand Island Access Rd		ISST	1/20/2004	Ongoing
		DOD US Army		Remedial	1/20/2004	Ongoing
		Dole Cannery 801 Dillingham Blvd	Low on 12/15/1995	Remedial	1/20/2004	Ongoing
		Domestic Commercial Fishing Village		Remedial	1/20/2004	Ongoing
		East Honolulu Wastewater Treatment Plant (WWTP) 8480 Kalaniana'ole Hwy	NFA on 12/11/1998	ISST	12/11/1998	NFA
		Elliot Street Drainage Canal Elliot St		Remedial	1/20/2004	Ongoing
		Equilon Enterprises LLC Honolulu Terminal 789 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		Event Arena Construction Lower Campus Rd		ISST	1/20/2004	Ongoing
		Evershine X 1230 Kapiolani Blvd		VRP	1/20/2004	Ongoing
		Factory Street Lead 2003 N King St		ISST	1/20/2004	Ongoing
		Farrington High School 1564 N King St	Low on 6/22/1995	Remedial	1/20/2004	Ongoing

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Oahu	Honolulu	Flynn-Learner Property 120 Sand Island Access Rd	High on 12/16/1994	VRP	1/20/2004	Ongoing
		Former ARCO AM/PM #82111 2105 S King St		Unreg UST	1/20/2004	Ongoing
		Former ARCO Hawaii Kai Station 6640 Hawaii Kai Dr		Unreg UST	1/20/2004	Ongoing
		Former Firing Ranges Diamond Head Rd		ISST	1/20/2004	Ongoing
		Former Ziegler Steel Site 2919 Ualena St	Low on 4/8/1999	Remedial	1/20/2004	Ongoing
		Fort Ruger Transformer 33 Diamond Head Rd		ISST	1/20/2004	Ongoing
		Fred L. Waldron Feed Mill 701 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		Garlow Petroleum UST Release 707 Kakoi St		ISST	1/20/2004	Ongoing
		Gaspro Inc. HID980817712 2305 Kamehameha Hwy	NFA on 2/5/1996	ISST	2/5/1996	NFA
		Gateway Park Explosion 2044 Kalakaua Ave		ISST	1/20/2004	Ongoing
		Glover Building 1046 Waimanu St		ISST	1/20/2004	Ongoing
		GTE Base Yard Sump 3239 Ualena St		ISST	1/20/2004	Ongoing

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Oahu	Honolulu	GTE Hawaiian Tel- Contaminated Soil Alakawa St & Nimitz Hwy		ISST	1/20/2004	Ongoing
		GTE-Hawaiian Tel Employees Federal Credit Union (HTEFCU) 1138 N King St	Low on 4/8/1999	Remedial	1/20/2004	Ongoing
		Haqadone Printing Company Sand Island 2278 Hoonee Pl		Remedial	1/20/2004	Ongoing
		Haitsuka Brothers, Ltd. 50 Sand Island Access Rd		Remedial	1/20/2004	Ongoing
		Hakim Properties, Inc. 861 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		Hakuyosha Hawaii, Inc. 730 Sheridan St		ISST	1/20/2004	Ongoing
		Hall Mark Dry Cleaners 1470 Liliha St	Low on 10/8/1998	Remedial	1/20/2004	Ongoing
		Harbor Court 66 Queen St	NFA on 12/21/1994	ISST	12/21/1994	NFA
		Harry and Jeanette Weinberg Foundation 3660 Waialae Ave		Remedial	1/20/2004	Ongoing
		Hawaii Convention Center 1801 Kalakaua Ave		ISST	1/20/2004	Ongoing
		Hawaii Fueling Facilities Corporation-Airport 3201 Aolele St		Remedial	1/20/2004	Ongoing
		Hawaii Fueling Facilities Corporation-Pier 51A	Medium on 3/1/2000	Remedial	1/20/2004	Ongoing

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Oahu	Honolulu	Hawaii Fueling Facilities Corporation-Sand Island Access Road 6 Sand Island Access Rd		Remedial	1/20/2004	Ongoing
		Hawaii Hall Renovation Varney Circle		ISST	1/20/2004	Ongoing
		Hawaii Instrumentation & Controls, Inc 822 Halekauwila St	NFA on 2/7/1997	ISST	2/7/1997	NFA
		Hawaii Job Corps Center 7600 Koko Head Park Rd	Low on 8/25/1997	Remedial	1/20/2004	Ongoing
		Hawaii Kai 76 #5440 Hydraulic Hoist Removal 234 Lunalilo Home Rd	NFA on 7/5/2001	ISST	7/5/2001	NFA
		Hawaii Meat 711 Middle St		ISST	1/20/2004	Ongoing
		Hawaii Mercury Kalaloa St		ISST	1/20/2004	Ongoing
		Hawaii Metal Recycling Company Pier 35	Medium on 7/28/1994	Remedial	1/20/2004	Ongoing
		Hawaii Stevedores 965 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		Hawaii Transfer Company, Ltd. Pier 36		Remedial	1/20/2004	Ongoing
		Hawaiian Bitumuls Paving & Precast Company-Sand Island Access Road 248 Sand Island Access Rd		Remedial	1/20/2004	Ongoing

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Oahu	Honolulu	Hawaiian Electric Company (HECO)- Honolulu Generating Station 170 Ala Moana Blvd	Low on 3/11/1996	Remedial	1/20/2004	Ongoing
		Hawaiian Electric Company (HECO)-Iwilei Tank Yard 855 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		Hawaiian Flour Mills 703 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		Hawaiian Miso and Soy Co., Ltd 1714 Mary St		Unreq UST	1/20/2004	Ongoing
		Hawaiian Tuq & Barge Corporation 705 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		HCDA/UH Medical School 651 Ilalo St		ISST	1/20/2004	Ongoing
		HDC Properties Stained Soils 1015 Kapiolani Blvd		ISST	1/20/2004	Ongoing
		HECO Fuel Oil Pipeline Route State Energy Corridor		ISST	1/20/2004	Ongoing
		Hertz Rent A Car, Vehicle Maintenance Facility 414 Lele St	Low on 4/7/2000	Remedial	1/20/2004	Ongoing
		Hobron Hotel 1744 Kaioo Dr		ISST	1/15/2004	NFA
Home Depot 421 Alakawa St		VRP	1/20/2004	Ongoing		

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Honolulu	Honolulu Community College Gas Station 874 Dillingham Blvd	Low on 12/11/1997	Remedial	1/20/2004	Ongoing
		Honolulu Harbor		Remedial	1/20/2004	Ongoing
		Honolulu Harbor Iwilei Unit		Remedial	1/20/2004	Ongoing
		Honolulu International Airport 300 Rodgers Blvd	Medium on 2/23/1995	Remedial	1/20/2004	Ongoing
		Honolulu Laundry 438 Kamakee St		ISST	1/20/2004	Ongoing
		Honolulu Sake Brewery UST 2150 Booth Rd	NFA on 6/30/1997	ISST	6/30/1997	NFA
		Honolulu Shipyard, Inc.	Medium on 10/29/1991	Remedial	1/20/2004	Ongoing
		Honolulu Waterfront POL Relocation		Remedial	1/20/2004	Ongoing
		Iolani School Petroleum 563 Kamoku St		ISST	1/20/2004	Ongoing
		Island Movers, Inc.		Remedial	1/20/2004	Ongoing
		Iwilei Project Site Iwilei Rd & N King St		Brownfields TSA	1/20/2004	Ongoing
		JBL Hawaii, Limited 905 Kokea St		Remedial	1/20/2004	Ongoing
		JTB Overseas Development Corporation 2270 Kalakaua Ave		Remedial	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Honolulu	Kakaako Brownfield Project-Unit 1 Koula St		Brownfields DOH	3/17/2003	Complete
		Kakaako Brownfield Project-Unit 10		Brownfields DOH	3/17/2003	Complete
		Kakaako Brownfield Project-Unit 2 Koula St		Brownfields DOH	3/17/2003	Complete
		Kakaako Brownfield Project-Unit 3 160 Ahui St		Brownfields DOH	3/17/2003	Complete
		Kakaako Brownfield Project-Unit 4 Koula St		Brownfields DOH	3/17/2003	Complete
		Kakaako Brownfield Project-Unit 5 Ahui St		Brownfields DOH	3/17/2003	Complete
		Kakaako Brownfield Project-Unit 6 1011 Ala Moana Blvd		Brownfields DOH	3/17/2003	Complete
		Kakaako Brownfield Project-Unit 7 Ahui St		Brownfields DOH	3/17/2003	Complete
		Kakaako Brownfield Project-Unit 8 Ahui St		Brownfields DOH	1/20/2004	Ongoing
		Kakaako Brownfield Project-Unit 9		Brownfields DOH	3/17/2003	Complete
		Kakaako Improvement District 3		ISST	1/20/2004	Ongoing
		Kakaako Improvement District 4		ISST	1/20/2004	Ongoing
		Kakaako Makai Brownfields/HCDA		Brownfields DOH	3/17/2003	Complete

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Honolulu	Kalihi-Palama Bus Facility 811 Middle St		ISST	1/20/2004	Ongoing
		Kamehameha Homes Demolition		Research	1/20/2004	Ongoing
		Kamehameha Schools Rifle Range Lead Contamination 1887 Makuakane St		ISST	1/20/2004	Ongoing
		Kapalama Incinerator 757 Kokea St	Medium on 5/2/1997	Remedial	1/20/2004	Ongoing
		Kapalama Military Reservation		Remedial	1/20/2004	Ongoing
		Kapalama Military Reservation South Oahu Location		ISST	1/20/2004	Ongoing
		Kapiolani Blvd. and Chapin Ln. Soil Contamination Chapin Ln & Kapiolani Blvd		ISST	1/20/2004	Ongoing
		Kapiolani Medical Center for Women and Children 1319 Punahou St	NFA on 12/2/1996	ISST	12/2/1996	NFA
		Keehi Lagoon Hoonee PI		SI1	1/20/2004	Ongoing
		Keehi Lagoon Canoe Facility, Increment II Hoonee PI	Medium on 11/26/199	Remedial	1/20/2004	Ongoing
Kekaulike Diamond Head Block Revitalization 163 N Hotel St		Unreg UST	1/20/2004	Ongoing		

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Honolulu	Kewalo Basin-Tuna Packers 1011 Ala Moana Blvd		ISST	1/20/2004	Ongoing
		Kewalo Incinerator 111 Ohe St		ISST	1/20/2004	Ongoing
		Kewalo Incinerator Landfill 111 Ohe St	NFA on 1/12/1996	ISST	1/12/1996	NFA
		King Kalakaua Plaza Development 2080 Kalakaua St		ISST	1/20/2004	Ongoing
		Koula Street Baseyard 160 Ahui St	Medium on 8/8/1997	Brownfields DOH	3/17/2003	Complete
		Kuhio Park Terrace, Units D1 and D2 Linapuni St		Brownfields TSA	1/20/2004	Ongoing
		Lance Goya's Chevron Service (Tom Tomita's Chevron) 504 N School St		Remedial	1/20/2004	Ongoing
		Like Like Plaza Petroleum Contamination 745 Keeaumoku St	Low on 10/8/1999	Remedial	1/20/2004	Ongoing
		Liliha Civic Center 337 N King St		Remedial	1/20/2004	Ongoing
		Lockheed Air Terminal, Inc. 3071 Aolele St	Medium on 6/7/2000	Remedial	1/20/2004	Ongoing
Longs Drug Stores Warehouse 2270 Hoonee Pl	Medium on 2/19/1998	Remedial	1/20/2004	Ongoing		
Lunalilo Home Facility 501 Kekauluohi St		Unreg UST	1/20/2004	Ongoing		

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Honolulu	Matson Navigation Company Sand Island Access Rd		Remedial	1/20/2004	Ongoing
		McCabe, Hamilton, & Renny Company, Ltd. 1130 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		McDonald's Restaurant Soil & Groundwater Contamination 2121 S King St		ISST	1/20/2004	Ongoing
		McKesson Drug Company/Sealmasters 80 Sand Island Access Rd		ISST	1/20/2004	Ongoing
		Meadow Gold Ice Cream Plant Fuel Oil Spill 1418 Young St	Low on 6/27/1997	Remedial	1/20/2004	Ongoing
		Mid Pacific Institute Unregulated UST 2445 Kaala St		ISST	1/20/2004	Ongoing
		MidPac Lumber Co., Ltd 839 Ahua St		PA1/SI1	1/20/2004	Ongoing
		Mililani Town Landfill	NFA on 4/29/1996	ISST	4/29/1996	NFA
		Miyazaki Service Station 351 Rodgers Blvd		Remedial	1/20/2004	Ongoing
		Motor Imports 650 Kapiolani Blvd	Low on 10/8/1999	Remedial	1/20/2004	Ongoing
National Car Rental System, Inc. North Nimitz Highway Oil Water Separator 3223 N Nimitz Hwy		ISST	1/20/2004	Ongoing		
Nestle USA 2828 Paa St		Remedial	1/20/2004	Ongoing		

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Honolulu	New Office Lounge 1551 Kapiolani Blvd		Unreg UST	1/20/2004	Ongoing
		Nimitz Highway Relief Sewer 1031 Nimitz Hwy		Remedial	1/20/2004	Ongoing
		Oahu Cemetery 2162 Nuuanu Ave		Unreq UST	1/20/2004	Ongoing
		Occidental Chem Co 2660 Waiwai Lp	NFA on 3/11/1996	ISST	3/11/1996	NFA
		Oceanic Cable Vision Site 2669 Kilihau Street 2669 Kilihau St		Unreq UST	1/20/2004	Ongoing
		Old Monarch Building Supply Property 749 Mapunapuna St		ISST	1/20/2004	Ongoing
		One Archer Lane Petroleum Contamination 801 S King St		ISST	1/20/2004	Ongoing
		Pacific Marine & Supply Co., Ltd.		Remedial	1/20/2004	Ongoing
		Pacific Poultry 1804 Kananui St		Unreg UST	1/20/2004	Ongoing
		Paradise Landscape Maintenance, Inc. Trimble Rd		ISST	1/20/2004	Ongoing
		Pauley Petroleum	Medium on 7/28/1995	Remedial	1/20/2004	Ongoing
Polynesian Hospitality 330 Pacific St		Remedial	1/20/2004	Ongoing		

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Honolulu	Prince Kuhio Hotel Report 2500 Kuhio Ave		Unreg UST	1/20/2004	Ongoing
		Proposed Mokuone Electrical Substation 1350 Sand Island Pkwy		Remedial	1/20/2004	Ongoing
		Pukoloa Wood Treating Site (formerly Servco Pacific Inc.) 2819 Pukoloa St	Medium on 11/15/1996	Remedial	1/20/2004	Ongoing
		Queen Emmalani Tower Queen St & South St	Low on 4/29/1996	Remedial	1/20/2004	Ongoing
		Reserve Housing Tower Soil Contamination 1141 Waimanu St	NFA on 10/25/1995	ISST	10/25/1995	NFA
		Roberts Hawaii 759 Kelikoi St	Low on 11/15/1996	Remedial	1/20/2004	Ongoing
		Roger's Repair Inc 1687 Kalakaua Ave	NFA on 6/4/1999	Remedial	1/20/2004	Ongoing
		Ross Trusts 819 Moowaa St		VRP	8/30/2002	NFA
		Saint Francis Medical Center, Liliha Street 2230 Liliha St	Low on 6/17/1998	Remedial	1/20/2004	Ongoing
		Sand Island Business Association Lot 023 AST 1020 Ulupono St	NFA on 7/8/2002	Remedial	1/20/2004	Ongoing
Sause Brothers		Remedial	1/20/2004	Ongoing		
Schuman Carriage Hydraulic Fluid Release 1234 S Beratania St		ISST	1/20/2004	Ongoing		

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Honolulu	Sea-Land Service Sand Island Access Rd		Remedial	1/20/2004	Ongoing
		Servco Pacific, Inc. Kalihi 2101 Auiki St		Remedial	1/20/2004	Ongoing
		Shizuku Hamaoka Trust 3311 Sierra Dr	Low on 7/3/2001	Remedial	1/20/2004	Ongoing
		Sierra Shell Service Station 3562 Waialae Ave		ISST	1/20/2004	Ongoing
		Sprint Lot 925 Dillingham Blvd		Remedial	1/20/2004	Ongoing
		Stan Shinkawa Inc 2330 Kalakaua Ave	NFA on 3/25/1996	ISST	3/25/1996	NFA
		State Poultry Processors Facility 2132 Kaliawa St	Low on 9/17/1998	Remedial	1/20/2004	Ongoing
		Superblock Project Keeaumoku St		Remedial	1/20/2004	Ongoing
		Swift Adhesives & Coatings 2847 Awaawaloa St	NFA on 3/25/1996	ISST	3/25/1996	NFA
		Symphony Park Kapiolani Blvd & Ward Ave	Medium on 12/16/199	Remedial	1/20/2004	Ongoing
Takamiya Property 850 Moowaa St		Remedial	8/8/1994	Refer to SHWB		
Tesoro Hawaii Corporation, Terminal Department-Pier 34		Remedial	1/20/2004	Ongoing		

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Honolulu	Tesoro Hawaii Corporation, Terminal Department-Sand Island 2 Sand Island Access Rd		Remedial	1/20/2004	Ongoing
		The Pavillion 1925 Kalakaua Ave		ISST	1/20/2004	Ongoing
		Thoht Property 636 Laumaka St	Low on 12/29/1995	Remedial	1/20/2004	Ongoing
		TOSCO Corporation-Honolulu Terminal #0282 411 Pacific St		Remedial	1/20/2004	Ongoing
		Towco - Sand Island 1350 Sand Island Pkwy	Low on 12/21/1994	Remedial	1/20/2004	Ongoing
		Town Inn 248-258 N Beretania St	Low on 3/2/1995	VRP	1/20/2004	Ongoing
		Town Inn 248-258 N Beretania St	Low on 3/2/1995	Remedial	1/20/2004	Ongoing
		Travel Plaza Transportation, LLC 818 Pine St		Remedial	1/20/2004	Ongoing
		Tripler Army Medical Center 1 Jarrett White Rd		Remedial	1/20/2004	Ongoing
		Tripler Army Medical Center Building 224 Heating Oil Tank 1 Jarrett White Rd		Unreg UST	1/20/2004	Ongoing
		Tripler Army Medical Center, Building 125A 1 Jarrett White Rd	Low on 3/2/1995	Remedial	1/20/2004	Ongoing
		U.S. Coast Guard Base Honolulu 400 Sand Island Pkwy		Remedial	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Honolulu	Uaukewai Diving Salvage & Fishing, Inc. Pier 21 Honolulu Harbor		Remedial	1/20/2004	Ongoing
		Underground Hoists Removal 744 Ala Moana Blvd		Unreg UST	6/30/2003	NFA
		University of Hawaii at Manoa Food Science Technology Building 1920 Edmondson Rd		Unreg UST	1/20/2004	Ongoing
		University of Hawaii, Lower Campus		ISST	1/20/2004	Ongoing
		University of Hawaii, Manoa 2444 Dole St		ISST	1/20/2004	Ongoing
		University of Hawaii, Marine Center 1 Sand Island Access Rd	Low on 10/29/1996	Remedial	1/20/2004	Ongoing
		USPS Vehicle Maintenance Facility Hydraulic Fluid Spill 89 Sand Island Access Rd	Low on 6/4/1999	Remedial	1/20/2004	Ongoing
		Vector Control Branch 2611 Kilihau St	NFA on 4/15/1996	ISST	4/15/1996	NFA
		Vermiculite of Hawaii 842 Mapunapuna St		PA1	1/20/2004	Ongoing
		Vermiculite of Hawaii 842 Mapunapuna St		DS1	1/20/2004	Complete
		Von Hamm Textiles 546 Kaaahi St		Remedial	1/20/2004	Ongoing
		Waikiki Bazaar 2174 Kalakaua Ave		Unreg UST	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Honolulu	Waikiki Sand Villa II 250 Kaiulani Ave	Low on 6/15/1998	Remedial	1/20/2004	Ongoing
		Weyerhaeuser 900 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		Wiliwili and King Streets Excavation King St & Wiliwili St		ISST	1/20/2004	Ongoing
		Y. Hata Company, Ltd. Cooke St & Ilalo St		ISST	1/20/2004	Ongoing
		Yacht Harbor Towers Generator 1600 Ala Moana Blvd	Low on 6/4/1999	Remedial	1/20/2004	Ongoing
		Yee Hop Property 621 Middle St		ISST	1/20/2004	Ongoing
		Young Brothers, Ltd. Piers 24-28		Remedial	1/20/2004	Ongoing
		Young Brothers, Ltd. Piers 39, 40		Remedial	1/20/2004	Ongoing
		Zippy's 580 North Nimitz 550-580 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
Oahu	Honolulu	Former General Tire Petroleum Contamination 505 Waiakamilo Rd		ISST	1/20/2004	Ongoing
Oahu	Iwilei	BHP Hawaii, Inc.		Remedial	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Iwilei	DIL Trust		Remedial	1/20/2004	Ongoing
		Honolulu Harbor Iwilei		Remedial	1/20/2004	Ongoing
		Honolulu Harbor Iwilei Operating Parties		Remedial	1/20/2004	Ongoing
		State of Hawaii, Department of Transportation, Harbors Division Properties		Remedial	1/20/2004	Ongoing
		Texaco Iwilei		Remedial	1/20/2004	Ongoing
Oahu	Kaaawa	Chang UST Release 51-344 Kamehameha Hwy		Unreq UST	1/20/2004	Ongoing
Oahu	Kaena Point	Kaena Point Satellite Tracking Station		ISST	1/20/2004	Ongoing
		Kaena Point STS		DSMOA	1/20/2004	Ongoing
Oahu	Kahuku	Kahuku Sugar Mill 56-565 Kamehameha Hwy		VRP	1/20/2004	Ongoing
		Kahuku Training Area		DSMOA	1/20/2004	Ongoing
		Kahuku Wind Farm Soil Remediation	NFA on 6/9/1998	ISST	6/9/1998	NFA

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Kahuku	Kahuku Wind Farm Transformer Leak		ISST	1/20/2004	Ongoing
		Punamano Air Force Station		DSMOA	1/20/2004	Ongoing
Oahu	Kailua	Ameron Hawaii (HC&D) - Kapaa Quarry 909 Kalaniana'ole Hwy	NFA on 12/29/1995	ISST	12/29/1995	NFA
		Cesspool Closure 609 Kailua Rd		ISST	1/20/2004	Ongoing
		Exempt Underground Storage Tank at Hookipa Cottage 42-477 Kalaniana'ole Hwy		Unreg UST	1/20/2004	Ongoing
		Former Windward Volkswagen 725 Kailua Rd		Unreg UST	1/20/2004	Ongoing
		GTE Hawaiian Tel Kailua Baseyard 134 Hamakua Dr		ISST	1/20/2004	Ongoing
		Honolulu Skeet Club	Low on 3/25/1996	Remedial	1/20/2004	Ongoing
		Kailua Corporation Yard 42-377 Kalaniana'ole Hwy		ISST	1/20/2004	Ongoing
		Kaneohe Ranch 55 Kailuana Pl		Unreg UST	1/20/2004	Ongoing
		Kapaa Landfill Kapaa Quarry Road Old Kapaa Quarry Rd	NFA on 4/29/1996	ES1	1/20/2004	Ongoing
Kawainui Marsh Kapaa Quarry Rd	NFA on 8/16/2000	ISST	8/16/2000	NFA		

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Kailua	Malunui Avenue Oil Contamination 21 Malunui Ave		ISST	1/20/2004	Ongoing
Oahu	Kakaako	Kakaako Improvement District 2		ISST	1/20/2004	Ongoing
		Kakaako Improvement District 7 Kamakee St		ISST	1/20/2004	Ongoing
		Kakaako Improvement District Program		ISST	1/20/2004	Ongoing
Oahu	Kalihi	Texaco Kalihi		Remedial	1/20/2004	Ongoing
Oahu	Kaneohe	Camp H. M. Smith Building 600	Medium on 4/15/1996	Remedial	1/20/2004	Ongoing
		Camp H.M. Smith UST CS-0-07 Building 600	NFA on 1/24/2000	ISST	1/24/2000	NFA
		Hawaii State Hospital Generator Building 34-710 Keaahala Rd	NFA on 11/14/2001	ISST	11/14/2001	NFA
		Hawaiian Memorial Park 45-425 Kamehameha Hwy	Refer to SHWB on 1/2:	ISST	1/23/2001	Refer to SHWB
		MCAS Kaneohe LDFL		ES2	8/2/1996	G
		MCBH Kaneohe Bay		Research	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Kaneohe	MCBH Kaneohe, Building 1091 Oil Transfer Area	Low on 11/20/1995	Remedial	1/20/2004	Ongoing
		MCBH Kaneohe-Firebomb Mixing Area	Medium on 12/27/1995	Remedial	1/20/2004	Ongoing
		MCBH Kaneohe-Skeet Shooting Range	Medium on 12/29/1995	Remedial	1/20/2004	Ongoing
		Safeway Store #207 Kaneohe Bay Sediments 46-065 Kamehameha Hwy		ISST	1/20/2004	Ongoing
		Safeway Store #207 PCB Release 46-065 Kamehameha Hwy	NFA on 8/30/2001	ISST	8/30/2001	NFA
		Scott's Plating 45-212 Kaneohe Bay Dr		SI1	1/20/2004	Ongoing
		Texaco Service Station #61-100-0180 - UIC 47-515 Kamehameha Hwy	Refer to SHWB on 3/4/1999	ISST	3/4/1999	Refer to SHWB
		U.S. Coast Guard Omega Station		ISST	1/20/2004	Ongoing
		Windward Nissan 46-275 Kahuhipa St	NFA on 4/10/2000	ISST	4/10/2000	NFA
Oahu	Kapalama	Chevron Kapalama Northwest Parcel 1105 N Nimitz Hwy		Remedial	1/20/2004	Ongoing
		KAPALAMA MILITARY RESIDENTIAL		DSMOA	1/20/2004	Ongoing

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				Type	Date	Result
Oahu	Kapolei	Allegiance Healthcare Corporation 1009 Opule St		ISST	1/20/2004	Ongoing
		Ameron Concrete Pipe Fabrication Facility 91-059 Hanua St		ISST	1/20/2004	Ongoing
		Bank of Hawaii Campbell Industrial Park Site 91-063 Malakole St		VRP	1/20/2004	Ongoing
		Barbers Point Harbor	Medium on 6/13/2000	Remedial	1/20/2004	Ongoing
		Barbers Point Harbor Expansion	Medium on 6/7/2000	Remedial	1/20/2004	Ongoing
		Barbers Point Harbor Lead Contaminated Soil		ISST	1/20/2004	Ongoing
		BEI Barbers Point Plant Sulfuric Acid Spill 91-291 Kaomi Lp		Remedial	2/27/2003	Refer to HEER EP&R
		BHP's LPG Pipeline Jacket Leak	NFA on 8/28/1997	ISST	8/28/1997	NFA
		Brewer Chemical Corporation 91-291 Kaomi Lp	Low on 12/29/1995	Remedial	1/20/2004	Ongoing
		Campbell Industrial Park 06/24/94 Administrative File 1001 Kamukila Blvd		Research	1/20/2004	Ongoing
		Chemwood Treatment Co, Inc. 91-476 Komohana St		ISST	1/20/2004	Ongoing
		Chevron USA Hawaiian Refinery 91-480 Malakole St	Medium on 12/29/1995	Remedial	1/20/2004	Ongoing

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				Type	Date	Result
Oahu	Kapolei	CoVan Warehouse 91-238 Kalaeloa Blvd		ISST	1/20/2004	Ongoing
		Cyprus Hawaiian Cement Corp 91-055 Kaomi Lp	Low on 12/2/1996	Remedial	1/20/2004	Ongoing
		Deep Draft Harbor Pier 5 Crude Oil Contamination		ISST	1/20/2004	Ongoing
		Earle M. Jorgensen 91-104 Kalaeloa Blvd	NFA on 12/29/1995	ISST	12/29/1995	NFA
		Fred L. Waldron, Ltd 91-254 Olai St	Low on 4/15/1996	Remedial	1/20/2004	Ongoing
		Grace Pacific Block Facility 91-205 Kalaeloa Blvd		Remedial	1/20/2004	Ongoing
		Hanua Street Fugitive Oil Hanua St		ISST	1/20/2004	Ongoing
		Hanua Street Petroleum on Groundwater 91-209 Hanua St	Medium on 1/24/2000	Remedial	1/20/2004	Ongoing
		Hawaii Metal Recycling Company 91-056 Hanua St	High on 2/15/1996	Remedial	1/20/2004	Ongoing
		Hawaii Project Management (HPM)/Hawaiian Western Steel, Inc. Beach Dump Kaomi Lp	Low on 6/27/1997	Remedial	1/20/2004	Ongoing
Hawaiian Dredging (Komohana Park) 91-063 Malakole St		VRP	1/20/2004	Ongoing		

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Island	Locality	Site Name	Priority Ranking	Activity Status		
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Oahu	Kapolei	Hawaiian Electric Co.-Kahe Generating Station 92-200 Farrington Hwy	NFA on 8/25/1997	ISST	8/25/1997	NFA
		Hawaiian Independent Refinery, Inc. 91-325 Komohana St		ISST	1/20/2004	Ongoing
		Hawaiian Meat Packers		ISST	1/20/2004	Ongoing
		Hawaiian Refractories 220 Komohana St		ISST	1/20/2004	Ongoing
		Hawaiian Western Steel Dump Hanua St & Malakole Rd	Low on 6/26/1997	Remedial	1/20/2004	Ongoing
		Hawaiian Western Steel, Limited 91-150 Hanua St		SI1	1/20/2004	Ongoing
		Honolulu Wood Treating Co. Ltd. 91-291 Hanua St	NFA on 2/8/1996	ISST	2/8/1996	NFA
		Industrial Technology Kauhi Street 91-313 Kauhi St		ISST	1/20/2004	Ongoing
		Kahe Generating Station Hydraulic Fluid Release 92-200 Farrington Hwy	NFA on 6/23/1997	ISST	6/23/1997	NFA
		Kahe Generating Station Kerosene Release 92-200 Farrington Hwy	NFA on 6/27/2002	ISST	6/27/2002	NFA
		Kalaeloa Cogeneration Plant 91-111 Kalaeloa Blvd		ISST	1/20/2004	Ongoing
		Kapolei Medical Park Fort Barrette Rd & Farrington Hwy		ISST	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Kapolei	Marisco, Ltd. 91-607 Malakole St		Research	1/20/2004	Ongoing
		Precision Wood of Hawaii Inc. 91-476 Komohana St		ISST	1/20/2004	Ongoing
		Reynolds of Hawaii 91-320 Komohana St	NFA on 12/24/1996	ISST	12/24/1996	NFA
		Tesoro Oil Spill NRDA/single buoy mooring Barbers Point Harbor Oil Spill 8/24/98		NRDA	1/20/2004	Ongoing
		Texaco Barbers Point Sales Terminal Gasoline Spill 91-119 Hanua St		ISST	1/20/2004	Ongoing
		Texaco Malakole Street Pipeline Excavation Malakole St	NFA on 10/8/1998	ISST	10/8/1998	NFA
		Texaco Terminal 91-119 Hanua St		ISST	1/20/2004	Ongoing
		Unitek Environmental Service, Inc. 91-125 Kaomi Lp	NFA on 4/15/1996	ISST	4/15/1996	NFA
Oahu	Kipapa	Kipapa Ammo Storage Tunnels		Research	1/20/2004	Ongoing
Oahu	Kuaaloa	Kuaaloa Regional Park		Research	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Kunia	Central Oahu Wells		PA1	1/20/2004	Ongoing
		Del Monte Corp. (Oahu Plantation) 927 Luawai St	High on 9/7/1995	Remedial	1/20/2004	Ongoing
		Endosulfan release Delmonte Fresh Produce 94-1000 Kunia Rd		ISST	1/20/2004	Ongoing
		Ewa Sugar Mill/Oahu Sugar Co. - Kunia Staging Area	Medium on 2/3/2000	Remedial	1/20/2004	Ongoing
		Kunia Field Station Kunia Rd	Medium on 2/2/1995	Remedial	1/20/2004	Ongoing
		Kunia Wells I 94-723 Kunia Rd	NFA on 12/21/1994	SI1	1/20/2004	Ongoing
		Kunia Wells II 94-700 Kunia Rd	NFA on 12/21/1994	ISST	12/21/1994	NFA
Oahu	Laie	Laie Burger King Gasoline Fumes 55-510 Kamehameha Hwy		Archive	1/20/2004	Ongoing
		Laie Junkyard 55-164 Kamehameha Hwy	NFA on 2/23/1995	ISST	2/23/1995	NFA
Oahu	Lualualei	HECO-Mikilua Substation Lualualei & Morser Rd		ISST	1/20/2004	Ongoing
		NRTF Lualualei		Remedial	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Maile	Kapiki Junk Yard 87-1683 Kapiki Rd		ISST	1/20/2004	Ongoing
Oahu	Maili	Lot 129 Kauhakama Road	NFA on 3/11/1996	ISST	3/11/1996	NFA
Oahu	Makaha	Unocal Service Station, Former #5245 84-1114 Farrington Hwy		Risk Assessment	3/21/1994	Complete
Oahu	Makakilo	Grace Pacific Corporation - Makakilo Quarry 91-920 Farrington Hwy		ISST	1/20/2004	Ongoing
		Palehua Solar Observatory		DSMOA	1/20/2004	Ongoing
Oahu	Makapuu	Makapuu Fish Poisoning		Risk Assessment	1/20/2004	Ongoing
Oahu	Mililani	Mililani Wells 1 95-1043 Ahikao St	NFA on 12/21/1994	ISST	12/21/1994	NFA
Oahu	Mokuleia	Crowbar Ranch 68-540 Farrington Hwy	NFA on 4/12/1996	ISST	4/12/1996	NFA
		Dillingham Military Reservation		Research	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Mokuleia	Hawaiian Bitumuls Paving & Precast Company-Mokuleia Farrington Hwy	NFA on 4/15/1996	ISST	4/15/1996	NFA
		Kaala AFS Kamakahi St		ISST	1/20/2004	Ongoing
		Kaala Air Force Station Kamakahi St		DSMOA	1/20/2004	Ongoing
Oahu	Nanakuli	Hakimo Road Maile Hakimo Rd		ISST	1/20/2004	Ongoing
		Hakimo Road Open Dump 1107 Hakimo Rd		Remedial	1/20/2004	Refer to SHWB
		Kaiser Cement Corp. Waianae Pt Luaulaulei Access Rd		ISST	1/20/2004	Ongoing
		Texaco Service Station #61-100-0093 87-1942 Farrington Hwy	Refer to SHWB on 10/	ISST	10/15/1998	Refer to SHWB
Oahu	Nuuanu	HECO Transformer 26127 2621 Pali Hwy		Research	1/20/2004	Ongoing
Oahu	Open Ocean	Ehime Maru		Archive	1/20/2004	Ongoing
Oahu	Pearl City	2375 Akalakala St, engine oil dumping 2375 Akalakala St		ISST	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Pearl City	DRMO Manana Storage Area	Medium on 3/2/1995	Remedial	1/20/2004	Ongoing
		Hawaiian Electric Co.-Waiiau Generating Station 475 Kamehameha Hwy	NFA on 12/29/1995	ISST	12/29/1995	NFA
		Pearl City Fuel Annex Lehua Ave		DS1	6/1/1981	Ongoing
		Pearl City Junction Kamehameha Hwy	Medium on 8/31/1995	Remedial	1/20/2004	Ongoing
		Pearl City Landfill Waipuna Ave		ISST	1/20/2004	Ongoing
		Pearl City Peninsula	Medium on 3/2/1995	Remedial	1/20/2004	Ongoing
		Pearl City Texaco 1099 Waimano Home Rd	NFA on 9/8/1998	ISST	9/8/1998	NFA
		Pearl City Towing 794 Lehua Ave		ISST	1/20/2004	Ongoing
		Waiawa Gulch Waihona St	Medium on 11/20/1995	PA1	1/20/2004	Ongoing
		Waiawa Shaft Waihona St	NFA on 4/15/1996	ISST	4/15/1996	NFA
		Waimano Training School and Hospital UST Removal 2201 Waimano Home Rd		Unreg UST	1/20/2004	Ongoing
		Waiwa Stream Tributary, Pearl City 2nd St		ISST	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Pearl City	Waterfront Manor 96-023 Waiawa Rd	Medium on 10/19/199!	Remedial	1/20/2004	Ongoing
Oahu	Pearl Harbor	Aiea Laundry Kaimakani St & Moanalua Rd	Medium on 3/17/2003	Remedial	1/20/2004	Ongoing
		Battery Acid Pit, Bldg. 394	Medium on 3/30/1995	Remedial	1/20/2004	Ongoing
		Building 8	Medium on 8/31/1995	Remedial	1/20/2004	Ongoing
		Ewa Junction Fuel Drumming Facility	Medium on 3/30/1995	Remedial	1/20/2004	Ongoing
		Ford Island Landfill		ISST	1/20/2004	Ongoing
		Hotel Pier Site		DSMOA	1/20/2004	Ongoing
		Makalapa Pesticide Pit		SI1	8/8/1990	A
		Naval Submarine Base		ISST	1/20/2004	Ongoing
		NAVBASE PEARL HARBOR		DSMOA	1/20/2004	Ongoing
		NAVPWC PEARL HARBOR		DSMOA	1/20/2004	Ongoing
NAVSHIPYARD PEARL HARBOR		DSMOA	1/20/2004	Ongoing		

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Pearl Harbor	NAVSTATION PEARL HARBOR		DSMOA	1/20/2004	Ongoing
		NAVSUPPLYCTR PEARL HARBOR		DSMOA	1/20/2004	Ongoing
		Oscar 2 Pier	Medium on 8/31/1995	Remedial	1/20/2004	Ongoing
		Pearl Harbor Kai Elementary School UST		Unreq UST	1/20/2004	Ongoing
		Pearl Harbor Naval Base, Subsurface Oil	Medium on 3/17/2003	Remedial	1/20/2004	Ongoing
		Pearl Harbor Naval Center, Fletragru Firetest Area		ISST	1/20/2004	Ongoing
		Pearl Harbor Naval Center, Makalapa Crater		ISST	1/20/2004	Ongoing
		Pearl Harbor Naval Complex		Remedial	1/20/2004	Ongoing
		Pearl Harbor Naval Shipyard		DSMOA	1/20/2004	Ongoing
		Pearl Harbor Naval Shipyard Building 68		SI1	8/21/1989	A
		Pearl Harbor Naval Station		HR1	7/25/1991	Complete
		Pearl Harbor Naval Supply Center		SI2	7/28/1991	A
		Pearl Harbor Navy Public Works Center		SI2	7/28/1991	A

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Pearl Harbor	Pearl Harbor Sediment Study	Medium on 3/2/1995	Remedial	1/20/2004	Ongoing
		PWC Transformer Sites		ISST	1/20/2004	Ongoing
		Shore Intermediate Maintenance Activity		ISST	1/20/2004	Ongoing
		U.S. Navy Exchange Laundry Facility Kaimakani St & Moanalua Rd		Remedial	1/20/2004	Ongoing
		USN Fleet Training Group 1430 South Ave		ISST	1/20/2004	Ongoing
Oahu	Punaluu	Punaluu Wells II Haleaha Rd	NFA on 9/30/1995	ISST	9/30/1995	NFA
Oahu	Red Hill	Red Hill Facility	Medium on 3/18/2003	Remedial	1/20/2004	Ongoing
Oahu	Sand Island	Sand Island Industrial Park		Remedial	1/20/2004	Ongoing
		Sand Island State Park Brownfields 1640 Sand Island Pkwy		Brownfields TSA	10/20/2000	Complete
Oahu	Schofield Barracks	Schofield Barracks Trible Rd		Remedial	1/20/2004	Ongoing
		Schofield Barracks Building 652, 649, 650		ISST	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Schofield Barracks	Schofield Barracks Sanitary Landfill Trible Rd		SI1	8/1/1982	A
		Schofield Barracks Site 26 Car Care Trible Rd		DSMOA	1/20/2004	Ongoing
		Schofield Barracks, NCO Academy, Building 6055 Trible Rd	Low on 3/6/1995	Remedial	1/20/2004	Ongoing
Oahu	Wahiawa	Kaukonahua Bridge Kaukonahua Stream Rd & Wilikina Dr	NFA on 4/29/1996	ISST	4/29/1996	NFA
		Naval Computer & Telecommunication Area Master Station (NCTAMS) 500 Center St		HR1	1/20/2004	Ongoing
		Naval Computer & Telecommunication Area Master Station (NCTAMS) 500 Center St		Remedial	1/20/2004	Ongoing
		Naval Computer & Telecommunication Area Master Station (NCTAMS) 500 Center St		NP1	1/20/2004	Ongoing
		NAVCAM		DSMOA	1/20/2004	Ongoing
		Opana		DS1	5/1/1987	Ongoing
		Silver Crest Elderly Housing 529 Pine St	NFA on 2/22/1999	ISST	2/22/1999	NFA

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Waialua	68151 Au St, storm drain 68-151 Au St		ISST	1/20/2004	Ongoing
		Dillingham Airfield Farrington Hwy		ISST	1/20/2004	Ongoing
		Mount Kaala Natural Area Reserve 68-350 Farrington Hwy		ISST	1/20/2004	Ongoing
		Waialua Sugar Company, Inc. Kealohanui St	High on 11/14/2001	PA1/SI1	1/20/2004	Ongoing
Oahu	Waianae	7 1/2-Acre Lot behind Waianae Mall		ISST	1/20/2004	Ongoing
		87-1641 Ulehawa Rd, Abandoned Pig Pen 87-1641 Ulehawa Rd		ISST	1/20/2004	Ongoing
		Henry's Equipment Diesel Release 86-412 Lualuelei Homestead Rd		ISST	1/20/2004	Ongoing
		Industrial Technology Tire Pile 87-459 Mailiili Rd	Medium on 6/11/1999	Remedial	3/3/2003	Refer to HEER EP&R
		Jaymer Inc 86-363 Hale Elua St	NFA on 1/12/1996	ISST	1/12/1996	NFA
		Larry's Chevron Service 86-038 Farrington Hwy		ISST	1/20/2004	Ongoing
		Leeward Petroleum Site #L-0837 85-723 Farrington Hwy		Unreg UST	1/20/2004	Ongoing
		Maili Kai Emergency Access Road Hakimo Rd	NFA on 12/24/2001	ISST	12/24/2001	NFA

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Waianae	Makua Military Reservation ORDN DISP		Remedial	1/20/2004	Ongoing
		MAKUA MILITARY RESIDENTIAL		DSMOA	1/20/2004	Ongoing
		Nanakuli Groundwater Contamination Lualualei Access Rd & Paakea Rd		ISST	1/20/2004	Ongoing
		Naval Magazine Lualualei 3 Constellation St		Remedial	1/20/2004	Ongoing
		P & S Sanitary Hauling Inc. 87-746 Farrington Hwy	NFA on 3/25/1996	ISST	3/25/1996	NFA
		Toledo Twin Pine Dairy 85-443 Waianae Valley Rd	NFA on 4/4/1996	ISST	4/4/1996	NFA
		Waianae Corporation Yard 86-220 Farrington Hwy		Unreq UST	1/20/2004	Ongoing
		Waianae Landfill 572 Waianae Valley Rd	NFA on 4/15/1996	ISST	4/15/1996	NFA
	Waianae Landfill Fire 86-348 Puhawai Rd		ISST	1/20/2004	Ongoing	
Oahu	Waiau	Chevron's Pipeline Oil Spill - Waiau 5/14/96 Kamehameha Hwy		NRDA	10/24/2002	Complete
Oahu	Waikakalaua	Waikakalaua Ammo Storage Tunnels		Remedial	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Waimanalo	Bellows Air Force Station 220 Tinker Rd		Remedial	1/20/2004	Ongoing
		Golden Melon Farms Kulaiwi Rd	NFA on 3/26/1996	ISST	3/26/1996	NFA
		Hawaiian Home Lands Waimanalo Kauholokahiki St	NFA on 6/5/1997	ISST	6/5/1997	NFA
		Pahe Plantation 41-724 Kaulukanu Pl	NFA on 3/25/1996	ISST	3/25/1996	NFA
		University of Hawaii, Waimanalo Experimental Farm		Remedial	1/20/2004	Ongoing
		Waimanalo Area-Wide Groundwater Contamination 41-698 Ahiki St		Remedial	1/20/2004	Ongoing
Oahu	Waipahu	ABC Chemical Corporation 94-131 Leowaena St	NFA on 2/18/1997	ISST	2/18/1997	NFA
		ABC Corporation Depot Road Waipahu Depot St	NFA on 2/18/1997	ISST	2/18/1997	NFA
		Alexander and Baldwin Mill Town Diesel Plume in Groundwater Koaki St		VRP	1/20/2004	Ongoing
		Alexander and Baldwin Mill Town Lead Contamination in Soil Koaki St	NFA on 7/29/2002	ISST	7/29/2002	NFA
		AMFAC Waipahu Sugar Chlorinated Solvent Plume in Groundwater Waipahu St		Remedial	1/20/2004	Ongoing

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Waipahu	AMFAC Waipahu Sugar Mill Machine Shop Chlorinated Solvent in Soil Waipahu St		ISST	1/20/2004	Ongoing
		Complete Auto Repair and Estimates Hydraulic Lift Removal 94-875 Farrington Hwy		Unreq UST	1/20/2004	Ongoing
		DRUMS ON A U-HAUL TRUCK DUMPED 94-500 Kamehameha Hwy		ISST	1/20/2004	Ongoing
		Former Corey's Unocal 94-303 Waipahu St	NFA on 4/7/2000	ISST	4/7/2000	NFA
		Managers Drive Managers Dr	High on 11/8/2000	VRP	7/15/2002	NFA
		Village Park		ISST	1/20/2004	Ongoing
		Waiawa Correctional Facility Tunnel UST Removal 94-560 Kamehameha Hwy		ISST	1/20/2004	Ongoing
		Waipahu Ash Landfill 93-071 Waipahu Depot Rd	NFA on 1/29/1996	ISST	1/29/1996	NFA
		Waipahu Fire Station 94-121 Leonui St		Unreg UST	1/20/2004	Ongoing
		Waipahu Wells Cane Rd	NFA on 12/21/1994	ISST	12/21/1994	NFA
		Waipio Heights Wells II 94-1014 Ka Uka Blvd	NFA on 12/21/1994	ISST	12/21/1994	NFA

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Island	Locality	Site Name	Priority Ranking	Activity Status		
				Type	Date	Result
Oahu	Waipio	Ewa Sugar Mill/Oahu Sugar Co. - Waipio Peninsula		Remedial	1/20/2004	Ongoing
Oahu	Wheeler Army Air Field	Wheeler Air Force Base		DSMOA	1/20/2004	Ongoing

APPENDIX B

FY 2003 DEPARTMENT OF HEALTH

ENVIRONMENTAL HEALTH ADMINISTRATION

HAZARD EVALUATION AND EMERGENCY RESPONSE

OFFICE

RELEASE NOTIFICATION LOG

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APPENDIX B:

DOH EHA HEER Office Release Notification Log FY 2003

Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Hawaii	Hakalau	20021210-1556 Hakalau Seed Plant Hakalau Seed Plant Diesel Release	Unregulated UST Removal.	Soil		Unknown	Leaking UST	NFA
Hawaii	Hilo	20030203-1130 Hawaii Electric Light Company Shipman Generating Station Lihiwai and Banyan Drive Lube oil spill	50-100 gal of lube oil from one of lines contained in containment trench, (concrete), Sat 2/1/03.	Within Facility	100 Gallons	Lube Oil	Equipment Failure	NFA
Hawaii	Hilo	20020701-1052 500 Kalaniana'ole Ave, truck/car accident 500 Kalaniana'ole Ave, truck accident	Truck/car accident: fuel line ruptured. HFD responded; contained fuel. County Public Works cleaned up spilled fuel; contaminated soil removed. No impact to storm drains, streams, or ocean.	Soil		Diesel Fuel	Traffic Accident	NFA
Hawaii	Hilo	20030508-0939 Tesoro Hawaii Corporation, Terminal Department-607 Kalaniana'ole DRILL Tesoro Hawaii Corporation	Training DRILL Material released from a valve due to an unknown cause.	Soil	2100 Gallons	OIL, FUEL NO. 2-D	Drill	NFA
Hawaii	Hilo	20030505-1537 Federal Express - Hilo Hilo Airport Cargo Ramp	Broken Hose from a loader	Ramp Area		Hydraulic Oil	Equipment Failure	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Hawaii	Hilo	20020727-1409 Hilo Bay Unknown Sheen Hilo Bay Unknown Sheen - #618055	Caller reporting an unknown sheen of unknown quantity.	Ocean		Oil	Unknown	NFA
Hawaii	Hilo	20030602-1513 University of Hawaii-Hilo Auto Shop Petroleum Contaminated Soil	Petroleum contaminated soil discovered, 4/22/03, during excavation work at UH, adjacent to auto shop. Amount and source unknown.	Soil		Petroleum in soil	Unknown	Send to ISST
Hawaii	Hilo	20030530-1412 Kuwaye Trucking Kamehameha Ave Solvent tote tank spill	Tote tank fell off truck. Content unknown at this time, amount unknown. 5/31/03 written: Intersection of Keaa St. & Kam Hwy. 2 tote tank fell off truck bed, solvent spill along road side. Appx 400-500 gal. Solvent was Unitek 146 Solvent.		550 Gallons	Unitek 146 Solvent	Traffic Accident	NFA
Hawaii	Hilo	20030223-0000 Keaukaha Industrial Park Air Complaint	Caller has concerns about air quality and man-made allergens potentially from industrial park.					NFA
Hawaii	Hilo	20030530-1551 Hawaii Electric Light Company Hill/Kanoelehua Operations Center HELCO pad-mounted transformer 15923	Leak from transformer radiator valve.	Concrete	100 Gallons	Shell Diala Oil	Leaking-Over Time	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Hawaii	Hilo	20030416-1616 Kaumaha Substation Kaumaha Substation	Leak from rust-decayed transformer housing	Soil		Shell Diala Oil	Leaking-Over Time	NFA
Hawaii	Hilo	20030131-1958 Hilo Bay, Pier 3 DRILL Tow Boat Services	Training DRILL Tank on a barge overfilled, causing 200 barrels to spill into water.	Ocean	Barrels	Naphtha	Drill	NFA
Hawaii	Hilo	20030124-1155 Keaukaha Military Reservation Container Disposal Keaukaha Military Reservation Container	Old spill. Received sampling report but no initial notification.	Soil				Send to ISST
Hawaii	Hilo	20030117-1212 Condominium Next to State Building White Oily Substance DRILL White Oily Substance	Training DRILL Caller stated that people are pressure washing a building. White oily substance being released onto ground and into the river. Stated that fish are dying as a result of this release.	Soil & Water		Unknown	Drill	NFA
Hawaii	Hilo	20020904-0810 Hilo Main Harbor, Pier 3, sheen Hilo Main Harbor, Pier 3, sheen	The caller is reporting an unknown sheen sighting.				Unknown	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Hawaii	Hilo	20020911-1300 Pohakuloa Training Area Public Works Yard Public Works Yard Magnesium Hydroxide Spill	PH Reading 12, container holding liquid tipped over. Corrosive liquid, 20 gals.	Soil	20 Gallons	Magnesium Hydroxide		NFA
Hawaii	Hilo	20021113-1345 Hawaii Electric Light Company Shipman Generating Station HELCO Shipman Gauge Line Oil Leak	Release of #6 Oil from gauge line in valve pit	Within Facility	90 Gallons	Fuel Oil #6	Equipment Failure	NFA
Hawaii	Hilo	20021113-1237 Hawaii Electric Light Company Shipman Generating Station Hawaii Electric Light Company (HELCO)/Lihiwai St & Banyon Dr.	Caller reported a release of #6 oil from line at terminal due to leak on gage line. Affected Medium: Other (2nd containment)	Other		Fuel Oil #6	Equipment Failure	NFA
Hawaii	Hilo	20021113-1024 Hilo Harbor DRILL Hilo Harbor Pier 3	Training DRILL Material released from barge (Pinto) , due to human error. DRILL DRILL	Ocean	4 Barrels	Diesel Fuel	Drill	NFA
Hawaii	Hilo	20020810-0810 Hilo Bay, Pier 3 Hilo Bay, Pier 3 sheen	The caller reported an unknown sheen sighting.		Sheen		Unknown	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Hawaii	Kailua Kona	20030530-0917 Area off Kailua-Kona Sheen incident - Kailua Kona	Sheen reported in the water at the beach along the seawall.	Ocean			Unknown	NFA
Hawaii	Kailua-Kona	20030527-1132 Kailua-Kona Oil Sheen Unknown Sheen Along Seawall	Unknown sheen reported in the water at the beach along seawall.	Water		Oil	Unknown	NFA
Hawaii	Kailua-Kona	20030324-1832 Luhia Street Transformers PCB Free transformer spill	Transformer spill-PCB free. 2-3 phase bank transformer on pole. 180 gals transformer oil.	Asphalt / soil	180 Gallons	Oil		NFA
Hawaii	Kailua-Kona	20030213-1335 HELCO Transformer Orchid Isle Auto Center Leaking Padmount Transformer - NonPCB	Non-PCB oil spill from padmount transformer. Spill noticed on 2/6/03 @ 1100 hours. Padmount replaced on 2/8/03. Amount unknown pending test results.	Soil	> 25 Gallons	Shell Diala Oil	Equipment Failure	NFA
Hawaii	Kamuela	20020716-1135 TOSCO Corporation- Kawaihae Terminal #0317 Kawaihae Harbor Oil Primer Spill	Material released from a can of primer due to harbor wake knocked the platform and the can was knocked into the water spilling material. Cleanup completed.	Water	0.5 Gallons	Primer Oil	Harbor wake	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Hawaii	Kau	20030610-1122 Kahuku Ranch Island of Hawaii Kahuku Ranch Island of Hawaii	Minor surface spills of oil (<25 gallons estimated) at the Kahuku Ranch, Kau District, Island of Hawaii.	Soil				NFA
Hawaii	Kaumana City	20030221-1620 Transformer #15531 HELCO pole-mounted transformer #15531	Leak from rust-decayed transformer housing. Incident did not require verbal notification, as the release was less than 25 gallons.	Soil	20 Gallons	Shell Diala Oil	Equipment Failure	NFA
Hawaii	Kawaihae	20030402-1042 Clean Island Council - Drill Kawaihae Harbor DRILL CIC/Conoco Phillips Drill 641149	Training DRILL Caller reported that due to a valve that was bumped from an IMO tank lube oil spilled into the Kawaihae Harbor which caused oil to leak. //Drill Report//	Water	4 Barrels		Drill	NFA
Hawaii	Kawaihae	20020807-1315 Clean Island Council - Drill Kawaihae Harbor DRILL CIC Drill # 619242 Kawaihae Harbor	Training DRILL 15 barrels of diesel oil was released from a barge due to a broken hose. Drill Report.	Ocean	15 Barrels	Diesel Oil	Drill	NFA
Hawaii	Kawaihae	20020912-0823 DRILL Conoco Phillips DRILL DRILL DRILL Kawaihea Harbor side pipeline unannounced	Training DRILL Facility harbor side pipeline 30 barrels low sulfur diesel. No further information will be forthcoming. Phone number given 479-1654.				Drill	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Hawaii	Kona	20030428-1325 Kailua-Kona Harbor Slip J 23 5 gal diesel spill	Diesel Fuel spilled into Kailua-Kona Harbor from bilge of fishing vessel, Fishnchips.	Ocean		Diesel Oil	Equipment Failure	NFA
Hawaii	Kona	20030514-1040 Norweigen Cruise Line - Kona Open Ocean Norweigen Cruise Line-- Norweigen Star	Small hydraulic leak from faulty piece of equipment on cruise ship	Water		Hydraulic Oil	Vessel-Equipment Failure	NFA
Hawaii	Kona	20030425-1003 Kona International Airport Jet Fuel Spill Release	Jet fuel spill occurred during transfer process and nozzle was not secured properly. Fire dept notified and clean up in progress.	Lava	200 Gallons	Jet Fuel	Transfer-Operator	NFA
Hawaii	Kona	20030219-2051 Kona International Airport United Airlines Flight 50	Jet fuel spill 750 gal. No stormdrain entry. Bradley Pacific refueling United Airlines Flight 50.		750	Jet Fuel		NFA
Hawaii	Open Ocean	20020925-1209 Unknown Sheen 623952 Unknown Sheen 623952	Caller reported sighting of unknown sheen North of the Big Island, Honokaa, HI. No further information available.	Water			Unknown	NFA
Hawaii	Port Allen	20021119-1107 Clean Island Council - Port Allen Harbor Drill DRILL CIC Drill 629631	Training DRILL. Material released from barge due to overfilling of a vent.	Ocean	1 Barrels	Diesel Fuel #2	Drill	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Hawaii	South Kohala	20021201-0948 HELCO Transformer Puako Beach Road HELCO pole-mount transformers #23741 and 24411	Pole guy anchor broke, causing pole to fall to the roadway. Impact caused two of the pole's three transformers to release their oil charges. 46 gallons represents the combined release from both transformers.	Asphalt			Equipment Failure	NFA
Hawaii	Waikoloa	20020914-1534 HELCO Transformer 7057 HELCO transformer # 7057						NFA
Hawaii	Waikoloa	20020917-1514 HELCO Transformer 7057 HELCO transformer #7057	Leak from broken connector (bushing) on top of transformer housing. Transformer fell while being transported by contractor on flatbed tractor-trailer truck. Released oil charge appx 15 gals. Impacted area: flatbed trailer, materials on trailer and soil	Soil, truck, materials	15 Gallons	Shell Diala Oil	Transporting equipment	NFA
Johnston	Johnston Island	20030215-1205 Johnston Atoll, Pacific Ocean 5 gallon oil spill	Filling forward ballast tank with water, air vent overfilled with water and oil, releasing materials on deck and into water.	Ocean	5 Gallons	Oil		NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Kahoolawe	Honokanaia	20030303-1130 Kahoolawe - Honokanaia Base Camp Spill Discovery of Contaminants at Base Camp	Report submitted on discovery of soil contaminants	Soil				NFA
Kauai	Eleele	20021106-1405 Port Allen Terminal Kauai Commercial truck overfill	57 gals of heavy ended diesel fuel washed down in bermed area, strip drain into collecting tank.	Asphalt	57 Gallons	Diesel Fuel High Sulfur	Operator Error	NFA
Kauai	Eleele	20020923-1400 Kauai Electric, Port Allen Generating Facility Port Allen Release	Common header sensor failed after material was switched from #3 tanker to #4, thus causing fuel, chevron high sulfur to overflow. Spill occurred on 9/22/02 @ 2100 hrs. Est. 50-75 gallons involved.	Concrete and soil	50 Gallons	High Sulfur oil	Equipment Failure	NFA
Kauai	Hanalei	20021115-0912 Anini Beach Cylinder Compressed Cylinder	Unknown compressed gas cylinder 3 inches diameter, 1.5 ft long. Labeled "hazardous substance", appears to be from Barking Sands (PMR).		1	Cylinder	Unsecured Container	Refer to USCG
Kauai	Kapaa	20030220-1245 Nonou Well 9-1-C - 0321-01 Waialua Houselots Well 91C	Chlorine tank leak.	Air		Chlorine	Equipment Failure	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Kauai	Lihue	20030422-1426 Elima Road Soil Stock Pile Elima Road Soil Stock Pile	Petroleum Contaminated Soil Stock Pile.			Petroleum Hydrocarbon	Leaking UST	Send to ISST
Kauai	Lihue	20030602-0812 Nawiliwili Harbor Pier 1 Vegetable oil based Hydraulic oil spill	Due to hose failure a vegetable oil based hydraulic oil spilled into Nawiliwili Harbor from stern thruster on barge.	Ocean		Vegetable Oil	Equipment Failure	NFA
Kauai	Nawiliwili	20020814-1315 Nawiliwili Harbor, Pier 2 Nawiliwili Harbor, Pier 2	Diesel Fuel spilled into the nawiliwili Harbor from a fuel barge			Diesel Fuel	Vessel-Spill	NFA
Kauai	Princeville	20020819-1525 Princeville Shopping Center-Foodland Back Parking Lot Princeville Shopping Center-Foodland Parking lot transformer spill	30-40 gallons of padmount transformer mineral oil. 500 KVA. Total capacity unknown at this time. Contained the spill. Little on asphalt, some in dirt, none in storm drain. 9/3: 12.62 gallons spilled.	Soil	12.6 Gallons	Mineral Oil	Traffic Accident	NFA
Kauai	Waimea	20030512-1541 Former Downie's Unocal Former Downie's Unocal		Soil		Oil	Leaking-Over Time	NFA
Lanai	Kaumalapau	20021024-1443 Kaumalapau Harbor DRILL Diesel spill Kaumalapau Harbor	Training DRILL Oil spilled into Kaumalapau Harbor from overfilled tank on barge. DRILL DRILL	Ocean	5 Barrels	Diesel Fuel	Drill	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Maui	Kahalui	20021103-1430 Kanaha Beach Dumping Kanaha Beach Dumping	Illegal dumping of roofing tar	Soil		Roofing Tar	Fugitive Dumping	NFA
Maui	Kahana	20030610-1610 Lot 29 & 30 Piina Place Lot 29 & 30 Piina Place transformer	Runaway forklift struck padmount transformer, causing rupture and fire.	Soil	> 25 Gallons	Shell Diala Oil	Equipment Failure	NFA
Maui	Kahului	20020923-2035 LOWES DEPARTMENT STORE Lowe's Department Store	Caller reported that store is doing remodeling which is causing strong odors in the store.	Air			Unknown	NFA
Maui	Kahului	20030418-1509 Formerly Master's Roofing Allegation of dumping	Allegation of dumping and excavation and covering up. Allegation that Master's Roofing formerly owned site and illegally buried roofing material; equipment on site (loader, excavation)	Soil				Refer to SHWB
Maui	Kahului	20021107-1505 Kanaha Substation - Hawaiian Electric Kanaha Substation	Transformer A released 100 gal- PCB 100-160 ppm . Transformer B released less than 100 gallons PCB 44 ppm	Soil				Send to ISST

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Maui	Kahului	20020826-1000 Young Brothers Kahului Young Brothers Kahului	Valve broken on intermodal cargo tank (4800 gal total capacity) by forklift. Not all spilled, some containment by barge Kukahi. Occurred approx. 9:25-9:30 am. 500 gal entered water.	Ocean	< 350 Gallons	Oil, Used	Operator Error	NFA
Maui	Kihei	20020715-1617 MECO pad-mount transformer #7933 MECO pad-mount transformer #7933	Leak from rust-decayed transformer housing.	Soil			Leaking-Over Time	NFA
Maui	Kihei	20021112-1630 MECO Transformer #12763 MECO Transformer #12763	Written 11/12/02 leak of rust-decayed transformer housing. Concrete transformer pad impacted, no soil. Shell Diala insulating Oil (non-PCB mineral oil), appx 2 gals.	Concrete	2 Gallons	Shell Diala Oil	Equipment Failure	NFA
Maui	Kihei, Maui	20030104- Messenger of Peace Messenger of Peace Vessel Grounding on Maui	Messenger of Peace private vessel grounded on Humpback Whale Sanctuary, Kehei Maui. Coast Guard defueled. NOAA and DLNR paid for removal and scuttle. No hazardous substance or oil released to environment.	Ocean			Lost Anchor	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Maui	Lahaina	20020703-0834 Lahaina Harbor Sheen Sighting Lahaina Harbor Unknow Sheen	Caller reported an unknown oil sheen of 15 ft by 10 ft.	Ocean		Oil	Unknown	NFA
Maui	Lahaina	20030502-1943 2 miles south of Lahaina Harbor Lahaina Harbor - 2 miles South	3 crew members flipped over an excursion craft for a cruise liner, due to heavy swells. The vessel washed ashore with damage to the motor. The caller stated that about 5 liters of diesel may have entered the water.	Ocean	20 Liters		Weather	NFA
Maui	Lahaina	20021127-1519 Norwegian Star Norwegian Star Shaft leak	Leaking propeller shaft. No significant leak observed by PENCO. Ship proceeded to Honolulu for repairs.	Ocean	0.5 Gallons	Oil	Vessel-Equipment Failure	NFA
Maui	Lahaina	20020922-0610 Lahaina Harbor Oil near Lahaina Harbor	Caller discovered 2-3 big patches of oil near Lahaina Harbor. Caller believes that the oil may have come from cruise ships in the area.				Unknown	NFA
Maui	Lahaina	20030120-1652 Mala Wharf Mala Wharf	Sailing vessel grounded. Request owner's ID via HA numbers.	Ocean / sand		None	Vessel-Grounding	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Maui	Maalaea	20020730-1430 MECO-Maalaea Generating Station Maalaea Generating Station Fuel Supply Line Release	Fuel Supply Line release.		9800 Gallons	Diesel Fuel		Send to ISST
Maui	Makawao	20021012-0906 Makawao Mercury Spill Makawao Mercury Spill	Thermometer broke while immersing in pot of boiling water		1 Ounces	Mercury	Operator Error	NFA
Maui	Maui (East Shore)	20030519-1530 Waianapanapa State Park Waianapanapa tar balls	Tar balls washing ashore.	Ocean / each		Tar balls	Unknown	NFA
Maui	Puunene	20020919-1350 Hawaiian Commercial & Sugar Company Area adjacent to the Cane Hauler Shop	Approximately forty gallons of hydraulic oil was released adjacent to the Cane Hauler Shop at the Puunene Sugar Mill. The spill was onto the hard-packed soil of an access road. A hydraulic hose on a front-end loader failed during routine operations.		40 Gallons	Hydraulic Oil	Equipment Failure	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Maui	Puunene	20030619-1035 Puunene Sugar Mill Cane Hauler Shop	Cause of spill unknown. Could be from recently closed fuel dispensing/filtering sys or UST that was removed years ago. 2nd entry-Liz: excavating to install new USTs & hit impacted soil. Smells. Cover up excavation with plastic. Will bring in cont.	Soil		Oil	Leaking UST/leaking container	Send to ISST
Maui	Puunene	20020912-1600 Hawaiian Commercial & Sugar Company Hawaiian Commercial & Sugar Company	Approx. 50 gallons of diesel fuel was released @ the cane hauler parking area near the Puunene Sugar Mill.	Soil		Diesel Fuel	Operator Error	NFA
Maui	Puunene	20020929-1930 Hawaiian Commercial & Sugar Company Upper Division 5	The engine oil drain plug on one of the cane hauler tractors apparently vibrated loose during routine hauling operations. All of the oil contained in the engine was released.	Asphalt		Motor Oil	Equipment Failure	NFA
Maui	Puunene	20020910-1546 Hawaiian Commercial & Sugar Company Hawaiian Commercial & Sugar Company Power Plant	Approx. 50 gallons of used oil was released adjacent to the tank farm at the Puunene Power Plant. The spill was to soil and concrete slab.	Soil and concrete		Used oil	Operator Error	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Maui	Puunene	20020723-1055 Hawaiian Commercial & Sugar Company Shredding Mill 50 gallon lube oil spill	Operator error; damage to shredding mill so operator was setting flowrate & set it too fast, releasing approx 50 gallons to concrete. Cleanup with bagasse (absorbents) and burn in boilers.	Concrete	50 Gallons	Oil Lubricating	Operator Error	NFA
Maui	Puunene	20021226-1644 Puunene Sugar Mill Puunene Sugar Mill	Approximately thirty gallons of diesel fuel was released from a service truck at the tractor repair shop at the Puunene Sugar Mill.	Asphalt				NFA
Maui	Puunene	20030422-1413 Puunene Sugar Mill Crane broke hydraulic line	Unloading crane broke hydraulic line.			Hydraulic Oil	Equipment Failure	NFA
Maui	Puunene	20030324-0800 Hawaiian Commercial & Sugar Company Puunene Sugar broken hydraulic line	Broken Hydraulic line-unloading train- 11pm last night. 150 gals on cement slab and some to soil.	Concrete / soil	150 Gallons	Hydraulic Oil		NFA
Maui	Puunene	20021118-0907 Hawaiian Commercial & Sugar Company Hose break in Grinding Mill	Hose break in one of grinding mills, releasing 100 gals of hydraulic oil in basement of mill where water collection is collected. Water and oil mixture released onto fields. Sorbent pads in place, no release outside of facility, no rains.	Soil	100 Gallons	Hydraulic Oil	Equipment Failure	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Maui	Puunene	20021120-0726 Hawaiian Commercial & Sugar Company Puunene Power Plant's Turbo-generator Building	Turbine oil released into basement of power plant turbo-generator building.	Concrete	300 Gallons	Turbine Oil	Equipment Failure	NFA
Maui	Puunene	20030325-0927 Puunene Sugar Mill Used Oil Overflow Spill	Used oil overflowed from oil/water separator tank	Soil	125 Gallons	Used Oil	Operator Error	NFA
Maui	Wailuku	20020823-1327 Y Hata- Maui Petroleum/Lead Release, 200 Waiehu Beach Rd.	Release into on-site concrete-lined historic drainage trench that has released onto surrounding soils. Release into historic cesspool @ former bldg structure site. Release reported after analytical report showed petroleum substances. Site: Former Y.Hata &					NFA
Molokai	Kaunakakai	20020730-1403 Clean Island Council - Drill 618378 DRILL Clean Island Council - Drill 618378	Training DRILL Gas spilled into Kuanakakai Harbor from transfer hose on barge due to gasket failure. Drill.	Ocean	4 Barrels	Gasoline, Unleaded	Drill	NFA
Molokai	Kaunakakai	20021106-1249 Kaunakakai Harbor, 2-D Spill 628392 DRILL Kaunakakai Harbor, 2-D Spill 628392	Training DRILL Material release from barge (Pinto) due to tank on barge breaking open. DRILL DRILL	Ocean	4 Barrels	2-D	Drill	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Molokai	Kaunakakai	20030509-0838 Island Petroleum, Inc (Kaunakakai Terminal) Barge transfer pinhole leak in line	Barge transferring High Sulfur Diesel has pinhole leak in pipeline. Pipe was starting to get wet, stop transfer. Written 5/13/03 Expansion joint on cargo line began dripping product out during transfer. Rust hole on expansion joint bracket.	Asphalt / road		High Sulfur Diesel	Equipment Failure	NFA
Oahu		20021121-1210 HECO Transformer #5987C Hawaiian Electric Transformer #5987C	Oil release from transformer. Initial clean up done.	Soil / Concrete	> 25 Gallons	Transformer Oil	Leaking-Over Time	
Oahu		20020726-1254 H-1 Asbestos Bag H-1 Asbestos Bag	State road crew on scene. Hazmat 1 called for assistance Respond to abandoned asbestos containing material. Bag retaped and goose necked. Removed by PENCO.	Other		Asbestos	Fugitive Dumping	NFA
Oahu		20020726-1254 H-1 Asbestos Bag H-1 Asbestos Bag	State road crew on scene. Hazmat 1 called for assistance Respond to abandoned asbestos containing material. Bag retaped and goose necked. Removed by PENCO.	Other		Asbestos	Fugitive Dumping	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Aiea	20020807-0723 Halawa Correctional Facility (Medium Security) Washing residue from furniture refurbishing into stormdrain	Alleged improper disposal of wastes. Refurbishing chairs: sand off old paint, prep it, and apply paint. Practice is to shoot water to clean up and it goes to a storm drain. There should be evidence of blue & white paint by storm drain.	Storm Drain		Paint	Runoff	NFA
Oahu	Aiea	20020806-1130 HECO Transformer 39209 HECO Transformer # 39209 Spill	15 gallons of Shell Diala AX Insulating Oil or equivalent (non-PCB mineral oil) spilled from Transformer #39209. Quantity < 25 gallons but not remediated within 72 hours.	Concrete	15 Gallons	Shell Diala Oil	Equipment Failure	NFA
Oahu	Aiea	20030603-1503 Shell Service Station (Pearlridge Shell) Two Hydraulic Hoist removed	Removed 2 hydraulic hoist from ground, (March '03). 1 non-detect, the other had residual TPH oil.	Soil	25 Gallons	Hydraulic Oil	Unknown	Send to ISST
Oahu	Aiea	20030118-1556 Ford Island Ford Island Unknown Sheen	Unknown sheen discovered from unknown source.	Ocean			Unknown	NFA
Oahu	Ala Wai	20020921-1411 Ala Wai Harbor Sheen Ala Wai Harbor Sheen	Caller is reporting the discovery of a sheen of unknown origin on Ala Wai Harbor. Caller describes the material as black sludge.		3 Gallons	Unknown	Unknown	NFA

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Oahu	Ala Wai	20021202-1732 Ala Wai Harbor Sheen Ala Wai Harbor Sheen NRC 630668	Oil sheen in Ala Wai coming from unknown pleasure craft.	Water		Oil	Fugitive Dumping	NFA
Oahu	Ala Wai	20021202-1232 Ala Wai Harbor Ala Wai Sheen	sheen from unknown pleasure craft	Water			Fugitive Dumping	NFA
Oahu	Ala Wai Yacht Harbor	20030507-0952 Ala Wai Yacht Harbor Unknown sheen 644297	Unknown sheen in Ala Wai Yatch Harbor.	Ocean		Unknown oil	Unknown	NFA
Oahu	Alewa Heights	20021101-1430 2355 Makanani Drive 2355 Makanani Dr. Odor complaint	Complaintant stated Seal Coat applied 10 separate times to aggravate medical condition of complaintant(Howard Gushiken).	Asphalt	20 Gallons	Asphalt Sealer	Maintanance	NFA
Oahu	Campbell Industrial Park	20021205-1430 Kalaeloa Barge Harbor (Drill) DRILL 4 barrels spill	Training DRILL Transfer hose ruptured causing Diesel fuel to spill into Kalaeloa Barge Harbor.	Ocean	4 Barrels	Diesel Fuel	Drill	NFA
Oahu	Campbell Industrial Park	20021105-1559 Kalaeloa Barge Harbor (Drill) DRILL 2-D spill	Training DRILL Material released from terminal during loading operation. DRILL DRILL	Ocean	2 Barrels	2-D	Drill	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Diamond Head	20030604-0826 Noela Street Transformer 36968 Transformer 36968	Padmount transformer, 36968, failed . Found empty. >25 gal .	Concrete	36 Gallons	Mineral Oil	Equipment Failure	NFA
Oahu	Diamond Head	20021128-0630 Kolea Grounding Kolea Grounding	Vessel grounding and fuel release	Ocean	900 Gallons	Diesel Fuel	Vessel-Spill	NFA
Oahu	Drill	20020710-0750 DRILL CSX Enterprise collision with Norwegian Star DRILL CSX Enterprise collision with Norwegian Star	Training DRILL The CSX Enterprise has collided with the Norwegian Star causing a release of materials into the Pacific Ocean. The cause for the collision is unknown.	Ocean			Drill	NFA
Oahu	Enchanted Lake	20030218-1600 Kaelepulu Stream behind Akuila Place 55 gal drum in stream	Black plastic 55 gal drum floating on stream and stranded on island. Label "acetic acid ", barnacles/oysters on side.	Stream		Empty drum	Fugitive Dumping	NFA
Oahu	Ewa Beach	20020731-0930 Pohiko Street, solid waste & vector problem Pohiko Street, solid waste & vector problem	Solid waste and vector problem. Children play on lot. Big empty lot with no maintenance, allegations of construction demolition debris dumping (dirt, wood, cement water). Mice being caught.					Refer to SHWB

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Oahu	Ewa Beach	20020927-0852 HECO Transformer 91-032 Fort Weaver Road Transformer--91-032 Ft. Weaver Rd.	Transformer failed (lost of fluid from rust holes). However, upon opening the transformer at the shop, transformer was empty. Transformer was replaced 9/20/02 and discovery of empty contents was 9/25/02. Non-PCB.	Soil	260 Gallons	Transformer Oil		NFA
Oahu	Ford Island	20020829-1250 Ford Island Pier Ford Island Pier	Pump Arizona Tour Boat #13 @ Ford Island Pier.	Ocean	0.25 Cups	Bilge water		NFA
Oahu	Fort Shafter	20030428-1410 Fort Shafter Flats DPW Storage Yard (West of B1598)	Open 5-gal pail found in DPW yard with water and oil. Surrounding soil darkened indicating oil probably overflowed as container filled with rainwater. Lab results of soil indicate presence of motor oil and trace amount diesel	Soil	5 Gallons	Motor Oil & Diesel		NFA
Oahu	Fort Shafter	20030528-1038 Fort Shafter Building 1362/1366 Transformer Leaking Building 1362/1366	Transformer found leaking, non -PCB label on transformer.	Soil		Transformer Oil	Equipment Failure	NFA
Oahu	Fort Shafter	20030428-1412 Fort Shafter Flats Fort Shafter Flats	Hydraulic oil dripping from pump. Someone removing pump, capstan motor and control stolen from truck	Soil			Equipment Failure	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Haleiwa	20021128-1630 Kaunala St. Drug Lab- Abandoned Drum Kaunala St Drug Lab- Abandoned Drum	After raid on drug lab, drum left in house by HPD, created exposure threat to occupants of residence.	Drum or Other Container		N,N Dimethyldodecylamine	Clan Lab	NFA
Oahu	Hawaii Kai	20020809-1130 HECO Transformer 48238 HECO Transformer #48238 - 6311 Ookala Place	Transformer was struck by an automobile.	Soil	> 25 Gallons	Shell Diala Oil	Leaking-Someone Ran into It	
Oahu	Hawaii Kai	20030218-0950 1077 Kalapaki Street Leaking transformer #36604 vault 3037	Leaking transformer >25 gal of oil, non PCB	Concrete / soil	25 Gallons	Oil	Equipment Failure	NFA
Oahu	Heeia	20020905-1453 HEEIA PARK BUCKETS & WAIKANE Heeia Park Buckets and Waikane	Contractor responded to Heeia Park & Waikane to remove abandoned drums/buckets.				Fugitive Dumping	NFA
Oahu	Hickam AFB	20030522-1312 Hickam AFB UST ST35 F-1808 Hickam AFB UST ST35 F-1808	Detected black stained soil w/ slight petroleum odor around the top of the UST & piping. Soil beneath the UST was black stained w/ moderate to strong petroleum odor (PIP = 850ppm). Spots of fuel oil were noted on the surface of the groundwater.	Soil & Groundwater		Heating Oil	Leaking UST	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Hickam AFB	20030417-1419 Hickam AFB Kuntz St. ST35 F-7-2105 Par 3 Golf Course, west of 7th green	Analytical results from samples collected within the UST and piping excavations indicated low levels (below HDOH tier 1 action levels) of petroleum constituents. Confirmed Release Notification Form received 4/23/03.	Soil		Unknown	Leaking UST	NFA
Oahu	Hickam AFB	20020828-1246 JP-8 Fuel Release JP-8 Fuel Release	Pressure test on fuel line failed. Excavation of soil indicated fuel (JP-8). Clean up in progress. Amount suspected over 25 gallons. Possible water table impacted. Media: Soil, groundwater	Ground water / Soil		Jet Fuel JP-8	Pipeline Failure	NFA
Oahu	Hickam Air Force Base	20030327-0648 Hickam UST ST35 F-5-2105 ST35 F-5-2105 600 gal steel tank	UST removal, black and gray stained soil with moderate hydrocarbon odor was detected along bottom and northern end of excavation.	Soil		Fuel Oil		Send to ISST
Oahu	Hickam Air Force Base	20021004-1505 Hickam East of Bldg 1046 ST31 1046B Tank	Drilling confirmation sample points found oil droplets and slight sheen on groundwater.			Oil		Send to ISST

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Oahu	Hickam Air Force Base	20021113-1306 Lateral Control Pit #3, Hickam AFB HI Spill at Lateral Control Pit #3, Hickam	Defueling operation were performed and a "closed fuel return line was left open after defueling operations. Fuel leaked from the open line	Ground water			Equipment Failure	NFA
Oahu	Hickam Air Force Base	20021016-1500 Hickam AFB Pipeline Leak @ 962 2nd St. Second St. pipeline break	Pipeline break	Stream	< 2400 Gallons	Jet Fuel JP-8	Pipeline Failure	NFA
Oahu	Hickam Air Force Base	20030525-0656 Hickam Air Force Base JP-8 5 gal spill 645986	Fuel tank on 747 aircraft overflowed causing jet fuel to spill onto asphalt and concrete surface.	Concrete / asphalt		Jet Fuel JP-8	Equipment Failure	NFA
Oahu	Hickam Air Force Base	20030502-1521 Hickam UST ST35 F-17-2105 ST35 F-17-2105	Detected black stained soil with moderate petroleum odor (PID = 185 ppm) around the fuel port. The soil beneath former UST was stained black with moderate petroleum odor (PID = 583 ppm). Contamination appears concentrated at Southern end of excavation.	Soil		Fuel Oil		
Oahu	Hickam Air Force Base	20030502-1520 Hickam UST ST35 F-22A ST35 F-22A 1,000 steel tank	Samples collected from UST and piping excavations detected low levels of petroleum compounds (below HDOH Tier1 action level)	Soil		Fuel Oil		

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Hickam Air Force Base	20030417-1421 Hickam UST ST35 F-21B UST ST35 F-21B	During sampling of the floor of the south end of the Ust excavation soil with bluish gray staining and slight petroleum odor was detected. Samples were collected and submitted for laboratory analysis. Confirmed Release Notification Form received 4/23/03.	Soil		Fuel Oil	Leaking UST	NFA
Oahu	Hickam Air Force Base	20021011-1515 Vandenberg Ave/Fox Ave Fuel Spill JP-8 Fuel Spill	Labor excavating ground hit underground fuel line resulting in fuel spill.	Soil			Maintanance	NFA
Oahu	Hickam Air Force Base	20020729-1814 HECO Transformer 66880 HECO Transformer #66880 Hickam AFB	Load tap changer failed causing heat and overpressure releasing Shell Diala AX Insulating Oil or equivalent (non-PCB mineral oil); approx. 120 gallons.	Soil	120 Gallons	Transformer Oil	Equipment Failure	NFA
Oahu	Honolulu	20021013-1651 Blaisdell sewage release Blaisdell Sewage release	Grease accumulation caused sewer to overflow. Cleaned and disinfected. Follow storm drain to Kewalo. All clear, no visible sewage outfall.	Concrete	1445 Gallons	Sewage	Sewage Line Failure	NFA
Oahu	Honolulu	20030114-1511 Dick's Monsarrat Service, Inc. Hydraulic Hoist Fluid	Soil samples were conducted during site cleanup for station closure and traces of hydraulic oil was found.	Soil			Leaking-Over Time	NFA

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Oahu	Honolulu	20021015-1502 Evergreen Eagle Spill Evergreen Eagle Spill	Damge to tow boom causing fluid leak.	Concrete	50 Gallons	Hydraulic Fluid	Equipment Failure	NFA
Oahu	Honolulu	20021015-1503 Evergreen Eagle Spill Evergreen eagle north ramp hydraulic leak	Broken hydraulic cylinder oil leak. Contractor clean up.	Concrete	50 Gallons	Hydraulic Fluid	Hydraulic Line Rupture	NFA
Oahu	Honolulu	20021016-1200 Honolulu Harbor Material released from hose	Material released from hose	Concrete	2 Gallons	Diesel Fuel	Operator Error	NFA
Oahu	Honolulu	20020830-0819 Pier 27 Honolulu Harbor Pier 26-27 sheen	Someone steam cleaning barge at another pier. Sheen is coming to Pier 26-27.	Ocean	Sheen		Maintenance	NFA
Oahu	Honolulu	20020903-1438 Kalanimoku Building Kalanimoku Building Suspicious Package	Suspicious package reported				Suspected Bioterrorism Incident	NFA
Oahu	Honolulu	20020826-1559 HECO Transformer 34970 HECO 400 Valkenburgh St. Transformer #34970	Shell Diala AX Insulating Oil or equivalent (non-PCB mineral oil); Approx. 5 gallons. Leal from rust-decayed housing. Less than 25 gallons, however cleanup period exceeded 72 hours.	Soil	5 Gallons	Transformer Oil	Equipment Failure	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Honolulu	20021012-1335 Sand Island WWTP Peaked flow flushing operation	While running a flushing operation, Two transfer pumps hit peak flow causing pump to overflow	Within Facility	500 Gallons	sewage	Maintanance	NFA
Oahu	Honolulu	20020826-0640 HECO Transformer 72709 (Vault 753) HECO V753 72709 Transformer Spill	Transformer Spill: HECO crews excavated 1 tote box of contaminated soil and cordoned off area.	Concrete		Oil	Transformer spill	NFA
Oahu	Honolulu	20020923-0924 Honolulu Harbor Drum Unknown Honolulu Harbor Drum Unknown	Caller reported that a drum was found in the water. There was no release.	Water			Fujitive Dumping	NFA
Oahu	Honolulu	20020924-2023 Ala Wai Main Harbor Sheen Ala Wai Main Harbor Sheen	Caller reported an unknown sheen, causing a strong odor. No additional information available.	Water			Unknown	NFA
Oahu	Honolulu	20030118-1710 Ala Wai - Small Boat Harbor Vessel on rocks	40' sailing vessel on rocks.	Ocean		None	Vessel-Grounding	NFA
Oahu	Honolulu	20030120-0951 Honolulu Harbor Near USCG base	55 gal drum floating in harbor near USCG base.	Lava	1 Drum (Unknown	Unknown	NFA

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Oahu	Honolulu	20020927-0840 Honolulu International Airport Bottle found by patrolling squadron	Unattended bottle found by patrolling squadron, bagged, then dropped off at State Crash Fire Crew. State Fire call 911.	Container			Unknown	NFA
Oahu	Honolulu	20030120-1315 Ala Wai canal Barge Hydraulic Oil leak	Vegetable oil based hydraulic oil leaked 10 gal in canal. Valve partially cracked caused leak not ruptured line.	Ocean		Hydraulic Oil	Equipment Failure	NFA
Oahu	Honolulu	20020927-1325 Ilikai Hotel White substance in film canister under bed	Film canister found under bed contained unknown white substance.	Other		Unknown		NFA
Oahu	Honolulu	20030121-1357 Ala Wai Boat Harbor, 500 Piers Pier--slip 501	Boat sank, 63' sport fishing boat.	Ocean		Diesel Fuel	Boat sank, vessel grounded	NFA
Oahu	Honolulu	20030122-1412 Barge Pinto Fuel Spill Drill 634822 DRILL Barge Pinto Fuel Spill Drill 634822	Training DRILL Fuel spill from an overfilled barge (Pinto) at Kalaeloa Harbor, releasing 10 barrels of diesel fuel overall and 3 barrels in the water. Drill	Ocean			Drill	NFA
Oahu	Honolulu	20030116-1622 Kapalama Military Reservation Pier 40 cylinder leaking oil	Cylinder leaking oil, oil spill 2' x 2' size.	Asphalt		Oil	Leaking Container	NFA

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Oahu	Honolulu	20020904-1448 Paradise Landscape Maintenance, Inc. Paradise Landscape Maintenance, Inc.	Substance were stored in a trailer. The trailer burned and the substance were released from the product packaging and container.			Hydraulic	Fire	Send to ISST
Oahu	Honolulu	20021126-0031 Honolulu International Airport Gate 2 50 gal JP-8 fuel spill, plane ID HS-UTC	Fuel spill from aircraft, cause is unknown.	Storm Drain	50 Gallons	Jet Fuel JP-8	Unknown	NFA
Oahu	Honolulu	20020910-1435 Sand Island Bridge DRILL Vessel collision with bridge	Training DRILL Release of fuel from vessel due to collision with Sand Island Bridge. Ship lost control.	Ocean		Heavy Oil	Drill	NFA
Oahu	Honolulu	20021125-1311 Abandoned Drums, Keola Street Abandoned Drums, Keola Street	Contractor responded for removal of abandoned drums.	Other			Fugitive Dumping	NFA
Oahu	Honolulu	20030629-1240 HECO Transformers 46551, 46552, 46553 HECO Transformer 46551, 46552, 46553	Release was the result of a vehicle accident to a termite damaged pole.	Asphalt & Concrete	25 Gallons	Trans Oil	Traffic Accident	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Honolulu	20021114-1519 Hale Koa Hotel Excavating for Water Line	Caller reported of petroleum release during ground excavation for water line. Release occurred approx 1 week before notification as a result of lab sampling. Test indicated TPH oil/diesel present.	Soil			Leaking-Over Time	
Oahu	Honolulu	20020910-1435 Sand Island Bridge DRILL Vessel collision with bridge	Training DRILL Release of fuel from vessel due to collision with Sand Island Bridge. Ship lost control.	Ocean	500 Barrels	Diesel Oil	Drill	NFA
Oahu	Honolulu	20021113-1500 Underground Hoists Underground Hoists Removal	Property owned by Kamehameha Schools. Removal of 2 underground hoists, 1 of 2 leaked. 3-5 yrs of soil removed and stockpiled on site. Ground water is at 5 ft. and is tidally influenced. Monitoring well to be placed, formerly CONT	Soil, groundwater	25 Gallons	Hydraulic Oil	Leaking-Over Time	Send to ISST
Oahu	Honolulu	20030123-1107 Matson leaking container Container leaking on deck 634870	Container on board container ship is leaking on deck, no water release. Arrive on Monday 1/27/03.	On board ship			Leaking Container	NFA
Oahu	Honolulu	20020910-0903 Phillips Honolulu Harbor Pier 34 DRILL Honolulu Harbor - Pier 34 DRILL	Training DRILL : 08:20 Diesel spill when flange gasket failed while fueling from Pier 34 to barge. DRILL	Ocean	25 Gallons	Diesel Oil	Drill	NFA

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Oahu	Honolulu	20021127-1512 HECO Transformer 45210 1551 Kalakaua Avenue	Release was caused by a leak from a pad-mount transformer struck in an auto accident. Although the leaking transformer was replaced and petroleum impacted soil peripheral to the release has been removed, oil impacted soil remains under the transformer p	Soil			Traffic Accident	NFA
Oahu	Honolulu	20021017-1450 Pier 35 Honolulu Harbor MSRC Hawaii Responder vessel spill	Hydraulic hose on crank broke. Spill oil contained, however, heavy rains caused oil to escape into water. Sheen observed.	Ocean	1 Pints	Hydraulic Oil	Equipment Failure	NFA
Oahu	Honolulu	20020904-1525 Matson, Pier 52, Honolulu Harbor Matson, Pier 52, Honolulu Harbor	The caller reported a release of hypochlorite on board vessel from cargo. Ship to be docked 9/4/02 at Pier 53 at 11am.	Air		Hypochlorite	Unsecured Container	NFA
Oahu	Honolulu	20030101-1255 Northwest Airlines, Inc. Spill 5 gal JP-8	Fuel tank on commercial aircraft was overfilled causing jet fuel to spill on concrete surface.	Concrete		JP8	Operator Error	NFA
Oahu	Honolulu	20021109-0054 Honolulu International Airport, Y Concourse Hydraulic Oil spill between gate 15/16	Hydraulic oil spill apron between gate 15/16, from tractor. Surface only, no storm drain. Happened @ 2130.	Tarmac / Runway		Oil	Operator Error	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Honolulu	20021128-1130 Enchanted Lakes/Kailua Kahili St bridge Sheen	Sheen in drainage canal	Stream		Oil	Fugitive Dumping	NFA
Oahu	Honolulu	20021108-2230 Honolulu International Airport Gate 14 & 15 Aloha Airlines Oil spill	Discharge of oil from hydraulic line on tow tractor	Concrete	10 Gallons	Hydraulic Oil	Equipment Failure	NFA
Oahu	Honolulu	20021108-1018 Matson Pier 52 Matson Pier 52	Material released from vessel due to unknown cause. Vessel: SS Lurline # 549900. Vessel midway between Los Angeles and Honolulu. ETA Hnl Sunday 1145.	Air			Unknown	NFA
Oahu	Honolulu	20021230-0851 Ala Wai, sheen between F & G dock G dock oil slick	Observed oil slick in harbor and oil surrounding her boat.	Ocean		Oil	Fugitive Dumping	NFA
Oahu	Honolulu	20021231-0737 Nuuanu transformer HECO pad-mount transformer #48617	Padmount transformer spill releasing 31 gal of non-PCB oil; no storm drains affected. Lost all contents (31 gal). **5/6/03 Updating reports, numbers different. Liz gave ok to change time from 0719 to 0737. HECO assigned their own number.	Soil / concrete	> 25 Gallons	Shell Diala Oil	Equipment Failure	NFA

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Oahu	Honolulu	20021104-1753 Kewalo Basin Kewalo Sheen	Unknown Sheen	Ocean			Unknown	NFA
Oahu	Honolulu	20021025-0855 Treaterator Between Golf and Lima Treaterator Between Golf and Lima Oil Trail	Oil trail from treaterrator, crossing Golf and Lima Runway, leading to Aloha Hangar	Asphalt	3 Gallons	Oil	Equipment Failure	NFA
Oahu	Honolulu	20021126-1323 Island Oil & Supply Co., Inc. - Oil Spill Dropped Load 2344 Pahounui Drive	Approx 175 gallons of motor oil fell off the rear of a flatbed truck PENCOC responded to release and clean up was completed. 30 cases (12 qts ea) of 10W 30 engine oil involved.	Asphalt	175 Gallons	Motor Oil	Traffic Accident	NFA
Oahu	Honolulu	20021017-1802 Ala Wai Marina Ala Wai Marina Sheen on Water	Sheen on water				Unknown	NFA
Oahu	Honolulu	20020815-1056 Clean Island Council Drill - Honolulu Harbor DRILL CIC # 620042 Honolulu Harbor Pier 30	Training DRILL	Ocean	5 Barrels	Diesel Fuel	Drill	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Honolulu	20030402-1320 Nimitz Highway Water Improvement Project Sumner to Queen Nimitz Hwy Water Improvement Project Probing	Unknown substance in soil discovered during trench working at project site. Soil considered contaminated and transported off site for future disposition.	Soil		Oil	Leaking-Over Time	NFA
Oahu	Honolulu	20030409-1016 Pacific Cruises Pacific Cruises	Material released from a storage tank on vessel due to overfilling. Sludge tank overfilled.	Ocean		Oil, Waste	Unknown	NFA
Oahu	Honolulu	20030408-1447 University of Hawaii, Lower Campus Lower campus Tennis Courts	Transformer leaking. Found 4/4/03 (Friday), slow leak rate. "Non PCB" label on transformer.	Concrete		Transformer Oil	Equipment Failure	Send to ISST
Oahu	Honolulu	20030408-1016 Sand Island Bridge DRILL Crude Oil Spill	Training DRILL Materials released from vessel due to unknown cause. DRILL DRILL	Ocean			Drill	NFA
Oahu	Honolulu	20030214-1057 Honolulu Harbor Sheen Pier 9 Sheen Pier 9	Sheen coming from pier 10. Sheen 900 1,000 ft. Rainbow in color.	Ocean			Fugitive Dumping	NFA
Oahu	Honolulu	20030621-1145 Honolulu Harbor Unknown sheen 648614	Unknown oil sheen.	Ocean			Unknown	NFA

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Oahu	Honolulu	20030406-0532 Honolulu International Airport Hatch stand #4 Asia Pacific Airlines JP-1 spill	20 gal discharge of jet fuel at Honolulu International Airport. Release occurred during fueling operations of 727 aircraft.	Tarmac	20 Gallons	Jet Fuel	Unknown	NFA
Oahu	Honolulu	20030314-0900 Abandoned Drums, Diamond Head Abandoned Drums, Diamond Head	3 drums in parking lot across dog park.	Soil	3 Drum (	Oil	Fugitive Dumping	NFA
Oahu	Honolulu	20021209-0956 Pearl Harbor Fuel Spill Pier H3 Arm Usumacinta Mexican Naval Vessel	Written 12/09/02 Improper ships force valve lineup during fueling caused a tank to be over-pressurized resulting in release of fuel into harbor.	Ocean	100 Gallons	Diesel Fuel	Transfer-nos	NFA
Oahu	Honolulu	20020729-0945 Abandoned Drums at Hart Street Abandoned Drums at Hart Street	HEER SOSC responded to abandoned drums @ Hart Street and removal of five drums.	Asphalt	5 Drum (		Fugitive Dumping	NFA
Oahu	Honolulu	20030331-1525 Budget Rent-A-Car #2106 Oil release from storage tank - overfilling	Material released from storage tank due to overfilling.	Storm Drain / water		Oil	Operator Error	Refer to IDPP

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Honolulu	20030328-2222 Ala Wai Yacht Harbor 600 row Sheen near slip 657	Unknown oil slick in Yacht Harbor.	Ocean		Oil	Unknown	NFA
Oahu	Honolulu	20030516-1240 Honolulu Harbor Pier 30 DRILL 2 barrel diesel spill	Training DRILL Vent overflow on vessel, releasing diesel fuel into water.	Ocean		Diesel Fuel	Drill	NFA
Oahu	Honolulu	20020806-0824 3347 Hayden Street, malathion smell 3347 Hayden Street, malathion smell	Malathion smell at 3347 Hayden St-Kapahulu.			Malathion		Refer to DOA
Oahu	Honolulu	20020805-1039 Unknown Sheen Ala Wai Harbor 619005 Unknown Sheen Ala Wai Harbor 619005	Caller reporting an unknown sheen. Sheen located behind Ilikai Hotel.	Water			Fugitive Dumping	NFA
Oahu	Honolulu	20030322-0330 Honolulu International Airport Gate 19 Honolulu International Airport Gate 19	Surge in fuel line caused material to spill from hose and onto ramp, 20 gal.	Concrete	20 Gallons	Oil	Process Upset-nos	NFA
Oahu	Honolulu	20030314-1700 Middle Street Abandoned Drums Middle Street Abandoned Drums	Respond to abandoned drums at Middle Street for removal. Add to C & C Recovery list.	Other		Oil	Fugitive Dumping	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Honolulu	20030404-1317 Matson Pier 51B Lurline Voyage 505 - leaking container	Lurline Voyage 505 inbound to Honolulu. Discovered leaking container on board. Appears to be paint which is one of listed items in container.	Hatch cover		Paint	Leaking Container	NFA
Oahu	Honolulu	20030506-1000 Matson Navigation Company Vessel - Chief Gadao	Unknown substance leaking from container. Could be 1 of 9 hazardous chemicals although characteristics of substance do not any of the 9 hazardous materials. Amount unknown.	Within Facility			Leaking Container	NFA
Oahu	Honolulu	20030515-0752 Pier 32 Honolulu Harbor Tracy Cherri II	While bunkering, overfill went into bucket, spilled into water and caused sheen. (.5 cup)	Ocean	0.5 Cups	Oil	Operator Error	NFA
Oahu	Honolulu	20020723-0900 Sand Island, Area 4, lube oil spill Sand Island, Area 4, lube oil spill	The caller stated that there was lube oil spilled into the water.	Ocean	20 Gallons	Lube Oil	Unknown	
Oahu	Honolulu	20030514-1043 Pacific Air Cargo Ruptured hydraulic line	Material released from loader unit for aircraft's due to ruptured hydraulic line. No water impact.	Asphalt		Hydraulic Oil	Equipment Failure	NFA

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Oahu	Honolulu	20030514-0848 Barge Pinto Fuel Spill Drill 634822 DRILL Barge Pinto Fuel Spill Drill 644942	Training DRILL Materails released from a barge due to an over flow. DRILL///.	Ocean	10 Gallons		Drill	NFA
Oahu	Honolulu	20030509-1058 Universal Fishing Company Fishing Vessel Robin	A discharged occurred from vessel in drydock. Product discharged and entered storm drain creating a sheen in the Keehi Lagoon.	Water	1 Gallons	Motor Oil	Vessel-Spill	NFA
Oahu	Honolulu	20021208-1230 Honolulu International Airport Lufthansa Air Cargo landing spill	Jet performing emergency landing spilled fuel on concrete surface, from left wing of commercial cargo aircraft.	Concrete	20 Gallons	Jet Fuel	Equipment Failure	NFA
Oahu	Honolulu	20030508-0845 Harbor Village Parking Lot Harbor Village Parking Lot	While doing roadwork, DOT - Highways removed transformer. Indication of oil leaking. Cleanup being done	Concrete		Non PCB oil		
Oahu	Honolulu	20030416-1239 Barge "Pinto" DRILL Tank overflow in Kaunalapau Harbor	Training DRILL Tank overflowed on fictitious brage Pinto. 3 barrels of gasoline released from vessel. 1-2 barrels entering Kaunalapau Harbor. DRILL DRILL	Ocean			Drill	NFA

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Oahu	Honolulu	20030506-1030 Matson Pier 52 Bycosin Additive Spill	Matson reported fuel spill due to drum being knocked over on deck of vessell, Lurline, with approximately 4 oz going into the water. Penco contacted to conduct cleanup operation.	Water	4 Ounces	Bycosin Additive	Operator Error	NFA
Oahu	Honolulu	20020720-0855 Hawaiian Tug & Barge Corporation Kahului Harbor Diesel Oil Spill	Release of 2 gallons of diesel oil from vessel dut to unknown cause in Kaului Harbor, Maui.	Ocean	2 Gallons	Diesel Oil		
Oahu	Honolulu	20030501-1110 Pier 60 Honolulu Harbor Watermain break (3" inch)	Watermain break (3" in) puddles of water have sheen on top.				Runoff	NFA
Oahu	Honolulu	20030425-1442 Pier 35 Honolulu Harbor Fudo Maru #5	Lube oil spilled onto deck and into Honolulu Harbor from vent system on fishing vessel. 10 gals on deck, 1 teaspoon into water.	Ocean	10 Gallons	Lubricating Oil	Equipment Failure	NFA
Oahu	Honolulu	20030424-1504 Nimitz Highway Water Improvement Project Sumner to Queen Nimitz Hwy Water Improvement Project Trenching	Petroleum in soil discovered during trench working at project site. Soil considered contaminated and transported off site for future disposition.	Soil		Oil	Leaking-Over Time	Refer to IDPP

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Oahu	Honolulu	20030421-2130 HECO Transformer 66016 HECO Transformer 66016	Non-PCB mineral oil release. Power line was struck by a falling tree, pulling pole to ground; transformer ruptured upon impact.	Storm Drain	25 Gallons	Mineral Oil	Equipment Failure	NFA
Oahu	Honolulu	20030421-1620 University of Hawai'i, J.K.K. Look Laboratory J.K.K. Look Laboratory, oil from electrical conduits	Closed UH Facility. Oil reported from pipes and electrical conduits	Concrete	25 Gallons	Oil	Vandalism	NFA
Oahu	Honolulu	20030611-1326 Honolulu Harbor Pier 10 DRILL M/V Namahoe 50 gal spill	Training DRILL Cruise vessel's manifold broke during bunkering causing release of 50 gals of Bunker fuel into water. DRILL DRILL	Ocean		Fuel Oil #6	Drill	NFA
Oahu	Honolulu	20020806-1129 HECO Transformers 39423 and 39424 HECO Transformer # 39423 & # 39424 Leak	Approximately 6 gallons of Shell Diala AX Insulating Oil or equivalent (non-PCB mineral oil) leaked from two transformers. Quantity was < 25 gallons, but not remediated within 72 hours. Verbal notification was not required.	Other	6 Gallons	Shell Diala Oil	Equipment Failure	NFA
Oahu	Honolulu	20030516-1356 Hickam AFB UST ST35 F-20-2105 South Side of Building 2104	Detected black stained soil with moderate petroleum odor beneath the UST. Contamination appears concentrated at the southern half of the excavation.	Soil		Heating Oil	Leaking-Over Time	NFA

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Oahu	Honolulu	20021210-2320 Honolulu International Airport, Runway 4 right General Electric Test Operations engine fire	Release of Hydraulic fluid from aircraft due to fire on #2 engine.	Asphalt	5 Gallons	Hydraulic Fluid	Equipment Failure	NFA
Oahu	Honolulu	20020814-1821 Keehi Lagoon oil pollution reported Keehi Lagoon Unknown Sheen	150 yards by 25 yards oil sheen reported.	Ocean				
Oahu	Honolulu	20030215-1855 Bradley Pacific Aviation 10 gal Jp-8 spill	10 gals spilled out of wing-tip of American Airlines plane. Cause unknown, fuel contained under wing.	Concrete	10 Gallons	Jp-8 fuel	Transfer-nos	NFA
Oahu	Honolulu	20030528-1448 Coca-Cola Bottling Co. of Hawaii (Mapunapuna St) Coca Cola Carbon Dioxide Release	National Response Center notification of an allegation that freon is being released from facility on weekends and holidays. Investigation clarified that a carbon dioxide release occurred on 5/26/03	Air		Carbon Dioxide	Maintanance	NFA
Oahu	Honolulu	20030203-1642 Ala Wai Canal Sunken Automobile Engine Ala Wai Canal Sunken Automobile Engine	During dredging operation the dredge struck the engine of a sunken automobile causing motor oil to spill into the Ala Wai Canal.	Water	5 Gallons	Motor Oil	Leaking-Over Time	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Honolulu	20020824-1155 Two oxygen tanks left out in the open Two oxygen tanks left out in the open	Caller states that neighbors moved out and left 2 oxygen tanks which appear to be full, out in the open, under the sun. Gaspro labels on the tanks.					NFA
Oahu	Honolulu	20030206-1533 Pier 10 and 11 Sheen Pier 10 and 11 Sheen	The origin and cause of sheen is unknown - probably rain runoff.				Unkown	NFA
Oahu	Honolulu	20020805-1505 Domestic Commercial Fishing Village Air Monitoring at Hon. Hbr. FV	Contractor met with M.Cripps and DOT personnel to take air sampling inside and outside of building. No methane detected.	Air		Rule out explosivity		NFA
Oahu	Honolulu	20030217-0852 Honolulu International Airport Gate 8 3 gal jet fuel spill	Discharge of fuel due to malfunction in shut off valve .	Concrete			Equipment Failure	NFA
Oahu	Honolulu	20020815-1119 HECO-Makaloa Substation HECO Transformer 21707	HECO transformer leak reported. Leak noticed during routine maintenance. Amount unknown at present but estimate over reoprtable quantity. No storm drain or water table affected. Spill is contained.	Concrete	> 25 Gallons	Shell Diala Oil	Equipment Failure	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Honolulu	20030529-1453 1918 Republican Street Republican Street Drums	2 x 55 drums disposed or left on side of road. Intact, not leaking, upright, looks like waste motor oil. One, half-full, the other full.	Drum or Other Container	2 Drum (	Oil	Fugitive Dumping	NFA
Oahu	Honolulu	20020702-1944 1125 Young Street, broken thermometer 1125 Young Street, broken thermometer	Broken thermometer.	Soil		Mercury	Operator Error	NFA
Oahu	Honolulu	20030226-1749 HECO Retired-from-service underwater transmission cable HECO retired-from-service underwater transmission cable	Very small discharge occurred during canal dredging operations when abandoned cable end was excavated. Small sheen on surface of Ala Wai Canal.	Ocean	< 1 Pints	Insulating Oil		
Oahu	Honolulu	20030214-0943 Pier 10-13 Honolulu Harbor Oil Sheen Sighting	Oil sheen sighted between Pier 10-13. Cause most likely due to heavy rain runoff.	Water			Runoff	NFA
Oahu	Honolulu	20030210-1415 USCG Cutter Kukui Fuel Spill USCG Cutter Kukui Fuel Spill - Kaneohe Bay	Caller reported material released from hydraulic equipment on deck due to equipment failure.	Water	5 Gallons	Oil	Vessel-Equipment Failure	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Honolulu	20030127-1953 HECO Transformer 31250 HECO Transformer No. 31250	Oil spill from transformer leak during internal overpressure due to failure ("fault"), 3/4/03 Written;	Within Facility	100 Gallons	Transformer Oil	Equipment Failure	NFA
Oahu	Honolulu	20021221-1804 Ala Wai, sheen between F & G dock G-Dock unknown sheen	Unknown sheen.	Ocean			Unknown	NFA
Oahu	Honolulu	20030306-1418 Clean Island Council/Tesoro Drill DRILL CIC/Tesoro Drill #638726	Training DRILL Diesel fuel spilled into the Kalaeloa Barge Harbor from a transfer hose. DRILL//	Water	2 Barrels		Drill	NFA
Oahu	Honolulu	20030305-1225 Teco Ocean Shipping Tug Boat Betty Wood Fuel Spill - Honolulu Harbor Pier 2B	Reporting party stated that tug vessel fuel tank overflowed diesel fuel while it was getting refueled. This release spilled on the deck of the vessel and into the water.	Ocean	50 Gallons	Diesel Oil	Operator Error	NFA
Oahu	Honolulu	20020715-2030 American Marine Corp Facility- Pier 13, Honolulu Harbor American Marine Corporation- Pier 13, Honolulu Harbor	Fuel return line from the generator was opened to the wrong tank.	Ocean		Marine Diesel #2	Notification only/Operator error	Refer to USCG on site

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Honolulu	20030304-2153 Uaukewai Diving Salvage & Fishing, Inc Nahiku Fuel Spill	Material (diesel) released from a tug boat that was taking on water. During dewatering operations, material was pumped overboard.	Water	1 Gallons	Diesel Oil	Operator Error	NFA
Oahu	Honolulu	20020807-1901 Keehi Lagoon Oil Sheen Near F-1 Dock Keehi Lagoon Oil Sheen Near F-1 Dock	30 ft by 2 ft oil sheen reported near F-1 Dock at Keehi Lagoon.	Ocean		Oil	Fugitive Dumping	NFA
Oahu	Honolulu	20020824-1111 1812 Lime Street, Apt 1- Furniture spray-painting 1812 Lime Street, Apt 1- Furniture spray-painting	Complainant reported that neighbor has been spray-painting furniture. Fumes are affecting the complainant. Prior complaint was on April 15, 2002 where a gentleman from CAB conducted an inspection.	Air				Refer to CAB
Oahu	Honolulu	20030227-1531 Clean Islands Council Drill 638024 DRILL Clean Island Council Drill 638024	Training DRILL A transfer hose failed causing diesel fuel to spill into the Kalaeloa Barge Harbor. Drill Report.	Water			Drill	NFA
Oahu	Honolulu	20030126-1730 Matson leaking container Venting Liquid Oxygen Un 1073	Venting of tank of Liquid Oxygen on board vessel. Ship entering Honolulu tomorrow.	Air		Liquid Oxygen	Overfill	NFA

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Oahu	Honolulu	20020823-1747 Honolulu International Airport, no notification from RP Honolulu Int'l Airport, no notification from RP	The caller reported that jet fuel spilled due to a cracked wing.	Asphalt	35 Gallons	Jet Fuel JP-8	Equipment Failure	NFA
Oahu	Honolulu	20030523-0900 University of Hawaii, Marine Center Used Oil Spill Release	Salvage man was dismantling old equipment and some oil dripped on the ground.	Soil	2 Gallons	Oil	Maintanance	NFA
Oahu	Honolulu	20020715-1930 Entrance Controls Hawaii, Inc. Entrance Controls Hawai'i, Inc. alleged releases	Complainant alleges illegal activities are being conducted at subject address; business is being conducted in a residential area. Trucks making deliveries and pickups of items(such as cylinders) have no signs indicating type of business. Spills observed				False Report	NFA
Oahu	Honolulu	20030525-0624 Honolulu International Airport JP-1 (Kerosene) 5 gal spill	Materials released from aircraft due to unknown cause.	Asphalt / soil		JP-1	Unknown	NFA
Oahu	Honolulu	20030604-0913 Barber Spring Harbor Pier 5 Pier 5 sheen	Sheen in harbor	Ocean				

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Honolulu	20030603-1146 Tug Naina Honolulu Harbor Pier 21 Tug Naina	Filling ballast to balance tug, 2 gal in water, 1 gal on deck, diesel.	Ocean		Diesel Fuel	Equipment Failure	NFA
Oahu	Honolulu	20030302-2324 Northwest Airlines, Inc. Black Oil at Hardstand 1 Bravo	A trail of black oil from some material handling equipment (loader) was discovered at Hardstand 1 Bravo.	Concrete		Oil	Equipment Failure	NFA
Oahu	Honolulu Harbor	20030521-1023 Unknown Sheen 645633 Unknown Sheen at Berth 51 B	Unknown sheen sighting.	Ocean		Oil	Unknown	NFA
Oahu	Honolulu Intl Airport	20020704-1902 American Airlines, Gate 17 Fuel Spill American Airlines, Gate 17 Fuel Spill	Fuel vented from the left wing onto the ramp. Jet fuel (JP-8). 10 gallons.	Concrete	10 Gallons	Jet Fuel JP-8	Operator Error	NFA
Oahu	Kahuku	20021108-0000 HECO Kahuku Windfarm Kahuku Wind Farm Transformer Leak						Send to ISST
Oahu	Kahuku	20030309-1233 Turtle Bay Resort (Kui Ilima) Canister washed ashore	Canister washed ashore. Smoking when not wet.	Ocean / soil			Unknown	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Kailua	20020824-1640 Kailua Beach feces washing on shore Kailua Beach feces washing on shore	Allegagtions f human feces, spaced 20-30 feet apart washing ashore	Ocean		feces	Unknown	Refer to DOA
Oahu	Kailua	20020826-1558 HECO Transformers 32749 and 33098 HECO 1015 Aloa Place Transformer Leak	Shell Diala AX Insulated Oil or equivalent (non-PCB mineral oil) leak from transformers #32749 and #33098 due to rusted pad-mount transformers. Less than 25 gallons, however, cleanup exceeded 72 hours.		10 Gallons	Transformer Oil	Leaking-Over Time	NFA
Oahu	Kailua	20030602-0830 103 Kahako Street, Apt. B 103 Kahako Street, Apt. B - Three 55-gallon drums	Caller reported finding 3 x 55-gallon drums behind his property.					
Oahu	Kailua	20020805-1058 HECO Transformers 32749 and 33098 Transformer Leak, 1015 Aoloa Place, Kailua	HECO letter of notification received informing of leaking pad-mount transformer. Notification provided due to cleanup effort has exceeded 72 hours. Impacted soil was removed. Soil test revealed that the soil under the transformer needs to be removed.	Soil	15 Gallons	Transformer Oil	Equipment Failure	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Kailua	20021024-1300 Hooulu St Abandoned Drum Hooulu St Abandoned Drum	Abandoned drum on public street. City removed drum.	Drum or Other Container	45 Gallons	Concrete Curing Agent	Fugitive Dumping	NFA
Oahu	Kalaeloa	20020726-1212 CIC DRILL - KALAELOA BARGE HARBOR DRILL CIC Kalaeloa Barge Harbor	Training DRILL	Ocean	8 Barrels	Diesel Fuel	Drill	NFA
Oahu	Kalaeloa	20020722-1137 CIC DRILL - KALAELOA BARGE HARBOR DRILL Pier 6 Kalaeloa Barge Harbor diesel fuel spill	Training DRILL	Ocean	5 Barrels	Diesel Fuel	Drill	NFA
Oahu	Kalihi	20030415-1100 Abandoned Drums at Mokauea Street Abandoned Drums at Mokauea Stree	HFD Hazmat on scene for abandoned drum. Hazcatof drum shows chlorinated solvent, drum full. Penco responded to Mokauea St for removal of abandoned drums.		1 Drum (	Paint Stripper	Fugitive Dumping	NFA
Oahu	Kalihi	20021114-1009 HECO-Kalihi Substation Hawaiian Electric Company (HECO)-Kalihi Substation	Caller reported transformer leak, non-PCB oil, at the Kalihi Substation. Affected area: gravel and soil within station. No storm drain affected. Estimated more than 25 gallons released. HECO substation transformer # 14228.	Other	25 Gallons	Transformer Oil	Equipment Failure	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Kalihi	20030415-1100 Abandoned Drums at Mokauea Street Abandoned Drums at Mokauea Stree	HFD Hazmat on scene for abandoned drum. Hazcatof drum shows chlorinated solvent, drum full. Penco responded to Mokauea St for removal of abandoned drums.		1 Drum (		Fugitive Dumping	NFA
Oahu	Kaneohe	20020718-1045 Cylinder at Kualoa Beach Cylinder at Kualoa Beach	Contractor responded to cylinder @ Kualoa Beach. Removal and destruction at sea by PENCO.	Ocean		Acetylene	Fugitive Dumping	NFA
Oahu	Kaneohe	20020903-1613 Keaahala Road Diesel Fuel Keaahala Road Diesel Fuel	Diesel fuel discovered after sample taken from runoff near construction site at Keaahala Road. Runoff discovered 8/28/02.	Stream		Diesel Fuel	Unknown	NFA
Oahu	Kaneohe	20030122-1354 Vault 46636 Vault 46636	Changing transformer - Cleanup crew to remove soil	Soil				
Oahu	Kaneohe	20030206-1030 Care Home Facility Care Home Facility	Ann Pearl, care home facility, big tractor digging for past 3 days . Digging up corroded gas line on own property. How far away from residential stonewall must it be. Phone 247-8558.	Soil				NFA

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Oahu	Kaneohe	20030108-0825 UH Research Facility Landing Craft Sinking	Craft sank at pierside	Ocean	1E+0 Gallons 4	bilge water	Vessel-Sinking	NFA
Oahu	Kaneohe	20030218-0754 Namoku Place Kaneohe Odor complaint and milky substance on stream	Odor complaint and milky substance on stream, (Kawa Stream), behind house lot.	Stream				NFA
Oahu	Kaneohe	20021231-1007 Kaneohe Bay Sheen #633084 Kaneohe Bay Sheen #633084	Caller reported an unknown sheen in the water.	Water			Unknown	NFA
Oahu	Kaneohe	20021219-1340 HECO Transformer 20439 HECO Transformer 20439 & Tank Trailer B684	While draining oil from transformer, tank trailer was inadvertently overfilled. Spill contained within facility.	Soil	40 Gallons		Operator Error	NFA
Oahu	Kaneohe	20021118-0850 Marine Corp Base Kaneohe, Building 6088 Motor Oil release, bldg 6088 parking lot.	Frito Lay truck released 1/2 pint of motor oil on parking lot. No release to surface waters. Driver of truck had a spill kit and used it.	Asphalt	0.5 Pints	Motor Oil	Equipment Failure	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Kapolei	20021203-1552 Kalaeloa Barge Harbor DRILL Diesel fuel spill	Training DRILL 4 barrels diesel in harbor	Ocean	4 Barrels	Diesel Fuel	Drill	NFA
Oahu	Kapolei	20020911-1301 Chevron USA Products Co., Hawaii Refinery Nitrogen Oxide Release from Flare	Nitrogen Oxide Sulfur Dioxide and Sulfur Trioxide released from a flare during a scheduled 4 day shutdown of the acid plant.	Air		Nitrogen dioxide	Maintanance	NFA
Oahu	Kapolei	20020723-1600 Tesoro 20" Black Oil Pipeline Leak Tesoro Pipeline Leak at Komohana and Kalaeloa Sts Intersection	10 Barrels of Diesel oil from hydrotesting pipeline leaked at the SW corner of Komohana and Kalaeloa Streets.	Soil	10 Barrels	Diesel Fuel	Pipeline Failure	
Oahu	Kapolei	20020911-1301 Chevron USA Products Co., Hawaii Refinery Nitrogen Oxide Release from Flare	Nitrogen Oxide Sulfur Dioxide and Sulfur Trioxide released from a flare during a scheduled 4 day shutdown of the acid plant.	Air		Sulfur Dioxide	Maintanance	NFA
Oahu	Kapolei	20020828-1559 Hawaiian Electric Company (HECO)-Kahe Generating Station HECO Kahe Power Plant Chemical Spill	Impact damage of chemical lines resulted in the releas of Hydrochloric Acid (31.5%) (2 gallons/19 lbs) and Sodium Hypochlorite (12.5%) (2 gallons/20 lbs). Commingling of these two chemicals emitted a small amount (<1 lb) of chlorine gas.	Air	2 Gallons	Hydrochloric Acid		NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Kapolei	20020924-0520 Chevron USA Products Co., Hawaii Refinery Nitrogen Oxide Release	Nitrogen oxide released from a flare due to upset with FCC unit and crude unit.. Release is greater than 10 pounds and sulfur dioxide is greater than 500 pounds.	Air	10 Pounds	Nitrogen Oxide	Equipment Failure	Refer to CAB
Oahu	Kapolei	20020911-1301 Chevron USA Products Co., Hawaii Refinery Nitrogen Oxide Release from Flare	Nitrogen Oxide Sulfur Dioxide and Sulfur Trioxide released from a flare during a scheduled 4 day shutdown of the acid plant.	Air		Sulfur Trioxide	Maintanance	NFA
Oahu	Kapolei	20020819-1612 Chevron USA Products Co., Hawaii Refinery Acid Plant Shut Down Sulfur Dioxide Release	2,473 pounds of SO2 was released during Acid Plant shut down. EPCRA reportable quantity (500 pounds within 24 hour period)	Air	2473 Pounds	Sulfur Dioxide	Equipment Failure	NFA
Oahu	Kapolei	20021207-1925 Chevron USA Products Co., Hawaii Refinery Acid Plant shut down	Plant shutdown @18:15, will be down for 24-36. Acid gas sent to flare, on going event. Notification of CAB permit exceedence.	Air		Air permit exceedence	Process Upset-Power Failure/Maintenance	NFA
Oahu	Kapolei	20020724-1325 Unitek Environmental Services, Inc 50-gallon oil spill	The cam lock on the hose failed allowing the hose to disconnect and oil to spill.	bermed area		Used oil	Equipment Failure	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Kapolei	20021218-0820 Chevron USA Products Co., Hawaii Refinery Chevron Bunker Crude Pipeline Leak	30" line leak from off load mooring to Tank 111. Leak occurred on site. Not detected because of insulation jacket covering pipe. Total of 11 barrels reported.	Soil	11 Barrels	Crude Oil	Pipeline Failure	NFA
Oahu	Kapolei	20021213-0949 Unitek Environmental Services, Inc Unitek Spec Fuel Spill	While transferring fuel from Tank to Tankard, fitting for hose broke. Clean up has been done.	Concrete	500 Gallons	Spec Fuel	Transfer-Equipment Failure	NFA
Oahu	Kapolei	20020828-1559 Hawaiian Electric Company (HECO)-Kahe Generating Station HECO Kahe Power Plant Chemical Spill	Impact damage of chemical lines resulted in the release of Hydrochloric Acid (31.5%) (2 gallons/19 lbs) and Sodium Hypochlorite (12.5%) (2 gallons/20 lbs). Commingling of these two chemicals emitted a small amount (<1 lb) of chlorine gas.	Air	2 Gallons	Sodium Hypochlorite 7 - 15%		NFA
Oahu	Kapolei	20030108-0802 Chevron USA Products Co., Hawaii Refinery Acid plant shutdown	Mist precipitator malfunction caused acid plant to shutdown. Over permitted limit unknown.	Air	Pounds	Sulfur Dioxide	Equipment Failure	Refer to CAB
Oahu	Kapolei	20021127-1508 HECO Transformer 46851 (Vault 5603A) HECO Transformer Vault 5603A #46851	35 gals of transformer oil, in process of cleanup. Non PCB, initial cleanup done.	Concrete / soil	35 Gallons	Transformer Oil	Transformer Failure	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Kapolei	20020930-0845 Hawaiian Electric Company (HECO)-Kahe Generating Station Kahe Unit 3 Low Sulfur Fuel Oil release	Low sulfur fuel oil release about 2:00 am. , >25 gals. Change burners that fire burners, steam valves did not close tightly. Written 12/4/02 Debris under burnerfront scavenging stream valve prevented it from fully closing. LSFO able to enter Cont. sosc	Concrete	> 25 Gallons	Low sulfur fuel oil	Equipment Failure	NFA
Oahu	Kapolei	20030521-1450 Marisco, Ltd Oily Gold color release	Vessel releasing bilges into water all morning into harbor. Appear to be deballasting some type of tank. Oily material gold color.	Ocean		Not Petroleum	Vessel-Spill	NFA
Oahu	Kapolei	20030515-0710 Kalaeloa Barge Harbor DRILL Pinto 2-D spill	Training DRILL Materials released from barge due to operator error. DRILL DRILL	Ocean		2-D	Drill	NFA
Oahu	Kapolei	20030106-1236 Tesoro Hawaii Corporation Refinery- Kapolei Tesoro Refinery	Nitrogen Dioxide Release. Unplanned maintenance of the Hydrogen Generator Unit. Unitl will be repaired	Air		Nitrogen Dioxide	Maintanance	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Kapolei	20030506-1142 Aloha Petroleum, Barbers Pt Sales Terminal (Formerly Texaco/Equilon) DRILL Fuel leaking from containment into street	Training DRILL 2100 gal fuel leaking from containment into street. Notified fire, 911, doing site assessment, vapors in area. Fire needs to lay foam. Zone control right now, until fire gives ok. **He said EPA region 10 was with them? Cont on SOSC report	Storm Drain		Gasoline, Unleaded	Drill	NFA
Oahu	Kapolei	20030107-1058 Barbers Point Harbor Pier 5 DRILL Barbers Point Harbor Pier 5	Training DRILL Material released from vessel due to unknown causes. DRILL DRILL	Ocean	0.5 Barrels	Fuel Oil	Drill	NFA
Oahu	Kapolei	20021016-1145 Chevron USA Products Co., Hawaii Refinery Acid Plant's Air Blower being repaired.	Acid Plant's main air blower is being repaired. Acid plant is down at 11:00 am. This is unscheduled maintenance. According to caller, in 1.1 hours, SO2 released would be > 500 lb, (reportable quantity)	Air	500 Pounds	Sulfur Dioxide	Equipment Failure	NFA
Oahu	Kapolei	20021222-0710 Chevron USA Products Co., Hawaii Refinery Blending and Shipping area low sulfur oil spill	Overflow portable tank. Written 1/21/03 In process of displacing a line into portable tank. Line displacemet volume was incorrect and excess volume overflowecd portable tank.	Soil		Low sulfur fuel oil	Equipment Failure	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Kapolei	20030530-0916 Waimanalo Gulch Sanitary Landfill Waimanalo Gulch Landfill	Caller stated that responsible party (Reno Treatment Center) is dumping blood contaminated bandages and various other hazardous materials from a local hospital into a local landfill.	Soil				
Oahu	Kapolei	20030423-0936 Single Buoy Mooring Maintenance on SPM 1 pint spill	Maintenance on Single point mooring, one (1) pint spill.	Ocean	1 Pints		Maintanance	NFA
Oahu	Kapolei	20030403-2032 Chevron USA Products Co., Hawaii Refinery Acid Process Unit down	Caller reported an Acid Process Unit went down due to equipment failure. Caused material to flare. Caller stated release still ongoing at this time.	Air		Sulfur Compound	Equipment Failure	NFA
Oahu	Kapolei	20021002-1826 Tesoro Hawaii Corporation Refinery- Kapolei Platform Diesel Release	Caller reported that while reinstalling a hose used at single point mooring, some fuel leaked into water. Caller also stated that area was approximately 1 mile offshore.	Ocean		Diesel Fuel	Transfer-Operator	NFA
Oahu	Kapolei	20021003-0955 Kalaeloa Blvd & Malakole St. Vechicle accident diesel spill	Vehicle accident involving tractor-trailor rig and Horizon truck. Fuel tank ruptured leaking diesel.	Asphalt	50 Gallons	Diesel Fuel	Traffic Accident	NFA

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Oahu	Kapolei	20021003-1120 Tesoro Hawaii Corporation Refinery- Kapolei IFO Release	IFO released during bunker line hookup. Sheen observed. Cleanup completed.	Ocean		Diesel Fuel #2	Maintanance	NFA
Oahu	Kapolei	20030108-0802 Chevron USA Products Co., Hawaii Refinery Acid plant shutdown	Mist precipitator malfunction caused acid plant to shutdown. Over permitted limit unknown.	Air	10 Pounds	Nitric Oxide	Equipment Failure	Refer to CAB
Oahu	Kapolei	20021220-0815 Chevron USA Products Co., Hawaii Refinery Low Sulfur Diesel pipeline leak	Pipeline leak of Low Sulfur Diesel in blending and shipping plant.	Concrete <	25 Gallons	Diesel Fuel Low Sulfur	Pipeline Failure	NFA
Oahu	Kapolei	20021011-0905 Deep Draft Harbor Sheen Sighting Pier 5 DRILL NRC 625798 DRILL DRILL	Training DRILL Hose on barge split causing a spill in water.	Ocean	5 Barrels	Diesel Fuel	Drill	NFA
Oahu	Kapolei	20030408-1653 Hawaii Medical Vitrification, Inc. Release of black sot	Over press of system, release black sot.			Black Sot	Equipment Failure	Refer to CAB

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Kapolei	20030117-1130 Clean Island Council Drill 634359 DRILL Clean Island Council Drill 634359	Training DRILL Material released from a pipeline due to an unknown cause.	Water	8 Barrels		Drill	NFA
Oahu	Kapolei	20030108-0802 Chevron USA Products Co., Hawaii Refinery Acid plant shutdown	Mist precipitator malfunction caused acid plant to shutdown. Over permitted limit unknown.	Air	Pounds	SulfurTrioxide	Equipment Failure	Refer to CAB
Oahu	Kihei	20020723-0800 Friendly Charters, alleged dumping in Maalaea Harbor Friendly Charters, alleged dumping in Maalaea Harbor	The caller reported company dumps raw sewage and oil from vessels into the water.	Ocean	50 Gallons	raw sewage		NFA
Oahu	Lahaina	20021031-0925 Lahaina Harbor Gasoline Spill Lahaina Harbor gasoline spill	Boat sank, leaking gasoline. Boat boomed and raised.				Vessel-Spill	Refer to USCG
Oahu	Lahaina	20021224-1438 Lahaina Harbor Gasoline Spill Lahaina gasoline spill	Boat Sank, leaking gasoline. Boat boomed and raised.	Ocean	30 Gallons	Gasoline	Vessel-Sinking	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Laie	20030203-1115 BYU Campus Maintenance haz waste site BYU hazwaste shed fire	Fire in hazwaste storage facility	Within Facility			Fire	Refer to SHWB
Oahu	Laie	20020926-1824 Pounders Beach Fuel Release Pounders Beach Fuel Release	Caller reported filming company crew member pouring gas into fuel tank and spilled same into water. Area affected is a popular fishing and diving area.	Ocean		Gasoline	Fugitive Dumping	NFA
Oahu	Lualualei	20030519-1059 HECO-Mikilua Substation Oil Drums & Gas Can Dumped on Property	Caller reported that someone dumped 2 drums of oil and a gas can at the Mikilua Substation, 87-759 Paakea Rd 96792. One of the drums is leaking. Cleanup in progress. Items were later determined to be not on HECO property.	Soil		Used oil	Fugitive Dumping	NFA
Oahu	Maili	20030626-1200 Abandoned Cooler Maililili Rd. Abandoned Cooler Maililili Rd.	Removal of cooler from Maililili Rd.	Soil	1 Gallons	Oil	Fugitive Dumping	NFA
Oahu	Maili	20030601-1500 Abandoned Drums Maililili Rd Site B Abandoned Drums Maililili Rd Site B	Removal of abandoned drums.	Soil		Oil, Car batteries	Fugitive Dumping	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Mali	20030601-1303 Abandoned Drum Maililiii Rd Site A Abandoned Drum Maililiii Rd Site A	Removal of abandoned drum.	Soil		Oil, Car batteries	Fugitive Dumping	NFA
Oahu	Makakilo	20030106-1630 Palehua Street Mercury Release Mercury Release at Palehua Road	Contractor respond and cleanup mercury release @ Palehua Road due to children playing.	Soil		Mercury	Fugitive Dumping	NFA
Oahu	Makakilo	20021127-1052 HECO Transformer 91-1089 Namahoe Street Transformer Release 91-1089 Namahoe Street	Leak from rust-decayed transformer housing. Non PCB oil release. Amount first reported as greater than 25 gallons. Release was later determined to be approximately 8 gallons (non PCB transformer oil) during the cleanup effort.	Soil	25 Gallons	Transformer Oil	Leaking-Over Time	NFA
Oahu	Makakilo	20030321-1115 92-577 Makakilo Drive Sewage spill 110 gals	Sewage spill 110 gals. No storm drain, cause: plastic bags and rags in a 6" PVC pipe. CDD @ 2005.	Soil				Refer to WWB
Oahu	Mapunapuna	20030219-1530 Honolulu Airport Hotel Parts of x-ray machine in parking lot	Part of x-ray machine discovered in parking lot.	Asphalt			Fugitive Dumping	Refer Noise & Radi

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Mililani	20030325-0830 Waimakua Drive Transformer Transformer spill	Transformer spill entered storm drain. Incident occurred 03/24/03 @ 10:35 pm. Cause: car accident.	Storm Drain	25 Gallons	Transformer Oil	Traffic Accident	NFA
Oahu	Mililani	20030418-1130 Longs Drugs Mililani Market Place Odor from battery for computer system	Odor started about 8:00 am, led to evacuation at Longs. Hazmat 2 requested assistance.	Air		Unknown	Equipment Failure	NFA
Oahu	Mililani Town	20020702-1406 HECO Transformer 30793 HECO Transformer #30793 - Mililani	Transformer failed 7/1/02. Shell Diala AX Insulating Oil or equivalent. Approx 25 gallons. Total in transformer-53 gallons. On ground, on and under pad, non-PCB oil. Dig up soil. No water or stormdrain.	Soil	25 Gallons	Transformer Oil	Equipment Failure	NFA
Oahu	Near Reef Runway at Honolulu Airport	20020830-1721 Barge Releasing Brown Material Barge Releasing Brown Material	Caller reported that a brown material was releasing from a barge.	Ocean			Vessel-Spill	NFA
Oahu	Pauoa	20030418-0243 2485 Pacific Heights Rd Sewage spill	Sewage spill 1200 gals entered Nuuanu Stream via Storm drain. Signs posted, cause: roots in an 8" pipe.	Storm Drain / stream				Refer to WWB & CWB

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Oahu	Pear City	20021120-0945 Abandoned Drums, Pearl City Industrial Park Abandoned Drums, Pearl City Industrial Park	Contractor responded to abandoned perc drums at Pearl City Industrial Park.				Fugitive Dumping	NFA
Oahu	Pearl City	20021128-0651 HECO Transformer 53068 HECO Transformer #53068	Transformer oil spill resulted from vehicle accident.	Asphalt & concrete sidewalk	23 Gallons	Shell Diala Oil	Traffic Accident	NFA
Oahu	Pearl City	20021118-0845 Hawaiian Electric Company (HECO)- Waiau Generating Station Holding Tank Sheen	Oil sheen in holding pond after heavy rain	Water		Oil	Weather	NFA
Oahu	Pearl City	20030325-0831 HECO Transformers 51560-51562 Pole 16 Transformers 51560-51562	Automobile impact to a pole. Clean up being done. Open storm drain will need to be cleaned also. Three transformer bank.	Storm Drain	60 Gallons	Shell Diala Oil	Traffic Accident	NFA
Oahu	Pearl Harbor	20021204-1417 Naval Station Pearl Harbor-Bishop PT. Alpha 1 Piers spill	Material released from steering unit on vessel due to equipment failure.	Ocean	1 Gallons	Oil	Vessel-Equipment Failure	NFA

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Island	Locality	Case Number and Site Identification	Initial Incident	Media	Quantity	Substance(s)	Standard Cause	Result
Oahu	Pearl Harbor	20030620-1321 Naval Station Pearl Harbor Bravo Pier 22 USS Anchorage 40 gal F76 Diesel Marine fuel	Overboard pipe rusted, fuel seeping out, 40 gal of F76 Diesel Marine fuel. Leak has slowed to 1 pint every 2 hrs.	Ocean	40 Gallons	F76 Diesel Marine fuel	Equipment Failure	NFA
Oahu	Pearl Harbor	20020801-1152 Pearl Harbor Naval Station Fuel/ Oil Release Pier 1 USS Port Royal F76 Fuel Spill	15 gallons of F76 Fuel spilled into ocean at Pier 1 from USS Port Royal.	Ocean	15 Gallons	F76 Fuel	Vessel-Equipment Failure	NFA
Oahu	Pearl Harbor	20020811-1024 Pearl Harbor Pier S-9 USS Louville Bilge Water Spill at Pier S-9	30 gallons released, 5 gallons entering ocean, of oily bilge water released from a bilge collection tank on the USS Louville due to overfilling.	Ocean		Bilge Water		
Oahu	Pearl Harbor	20030620-0816 Naval Station Pearl Harbor Bravo Pier Yankee 3 Unknown light sheen by Yankee 3	Unknown sheen sighted at 07:44. Too light, unrecoverable. Source unknown. Still investigating.	Ocean		Oil	Unknown	NFA
Oahu	Pearl Harbor	20020806-1040 Pearl Harbor Naval Station Fuel/ Oil Release Pearl Harbor Oily Waste Spill	One quart of oily waste released from a hose due to operator error into Pearl Harbor.	Ocean	1 Quarts	Oily Waste	Operator Error	NFA

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Oahu	Pearl Harbor	20030408-1851 Rainbow Bay Marina Vehicle into harbor - release of gas	Privately owned vehicle went into Pearl Harbor due to mechanical malfunction. Material released from vehicles's fuel tank (gas). Visible sheen, driver sustained no injuries. Stationed at Marine Corp Base.	Ocean		Gasoline	Equipment Failure	NFA
Oahu	Pearl Harbor	20030416-1505 USS Lake Erie CG70, spill USS Lake Erie Diesel Fuel Spill #M-3	Diesel fuel was released from vessel during maintenance. RP: Hawaii Marine (contractor)	Water	0.5 Gallons	Diesel	Operator Error	NFA
Oahu	Pearl Harbor	20021209-1405 Pearl Harbor Naval Station Pier B23 USS Port Royal Hull # CG 73	12:30 oily water discharge, 35-40 gals discharged. Boom around ship already, oil skimmer (diesel fuel).	Ocean	35 Gallons	Diesel Fuel	Equipment Failure	NFA
Oahu	Pearl Harbor	20030521-0928 Navy Base - Pearl Harbor DRILL Navy Base - Pearl Harbor	Training DRILL Hotel pier Navy Base - Ruptured fuel hose *DRILL* *DRILL* 15,000 gallons - 50 gallons in water	Ocean			Drill	NFA
Oahu	Pearl Harbor	20021211-1514 Pier 22B Paint Spill Pier 22B Paint Spill	Painting a vessel.	Ocean	1 Pints	Haze Grey Paint	Maintenance, Operator Error	NFA

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Oahu	Pearl Harbor	20030530-0915 Pearl Harbor Pier Bravo 24 and 25 Pier Bravo 24 and 25 - Pearl Harbor	Waste Oil spilled into the Pearl Harbor from the bilge of a military vessel	Ocean				
Oahu	Pearl Harbor	20030512-1007 Rainbow Bay Marina Unknown Sheen 1	Unknown sheen in bay, unknown source,	Ocean		Unknown	Fugitive Dumping	NFA
Oahu	Pearl Harbor	20030526-1010 Naval Station Pearl Harbor Pier- Hotel USS Constellation at Piers-Hotel 3 & 4	Sheen in Pearl Harbor.	Ocean		Unknown	Unknown	NFA
Oahu	Pearl Harbor	20020712-1433 Pearl Harbor, Pier Y3 Pier Y3, Pearl Harbor Fuel Hose Leak	Caller reporting a release of material, No. 2-D oil due to a pinhole leak in a fuel hose.	Ocean		No. 2-D oil	Equipment Failure	NFA
Oahu	Pearl Harbor	20030521-0930 Hotel 3 F76 site DRILL Hotel 3 F76 - DRILL	Training DRILL Ruptured fuel hose -15,000 gallons of Diesel Fuel - 50 gallons in water	Ocean			Drill	NFA
Oahu	Pearl Harbor	20020718-2145 Naval Station Pearl Harbor Sheen Pier B-17 Sheen	Heavy black oil in water. Too thick to be from a US Navy vessel. RIMPAC vessels returned and are in the vicinity. 2 gallon estimate.	Ocean	2 Gallons	Oil		

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Oahu	Pearl Harbor	20030418-1843 USS Shiloh Sheen Mike 1 Pier	Chief Engineer of vessel reported a sheen of material was seen on the Starboard side of vessel by Harbor Patrol at apprx 1500. He arrived at vessel to inspect at apprx 1600, no sheen visible.	Ocean			Fugitive Dumping	NFA
Oahu	Pearl Harbor	20030109-1050 Ford Island Bldg #44 Pearl Harbor Bilge Spill, Vessel TB26	Material released from a small boat due to bilge pumping. Vessel Name: TB26. Booms applied, material contained, skimmer used, area secured.	Water	8 Gallons		Equipment Failure	NFA
Oahu	Pearl Harbor	20021126-1654 Pearl Harbor Sheen Pearl Harbor Sheen	Unknown Sheen	Ocean	50 Gallons	Oil	Leaking-Over Time	NFA
Oahu	Pearl Harbor	20020814-1818 USS Harpers Ferry Waste Oil Spill at Hotel Pier USS Harpers Ferry Waste Oil Spill at Hotel Pier	Waste Oil of unknown amount released from an overboard discharge by the USS Harpers Ferry.	Ocean		Waste Oil		
Oahu	Pearl Harbor	20020901-1756 Pearl Harbor Berth B-10 USS Port Royal Diesel spill	Defueling a fuel oil tank to defueling barge, hose came loose from barge releasing material.	Ocean	2 Gallons	Diesel Oil	Equipment Failure	NFA

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Oahu	Pearl Harbor	20020831-1200 Pier K7 Pearl Harbor USNS Bruce Heezen Lubricating Oil spill	Material spilled out of a naval vessel due to transmission leak, 1 cup.	Ocean	1 Cups	Lubricating Oil	Equipment Failure	NFA
Oahu	Pearl Harbor	20021125-1359 Iroquois Point Lagoon Iroquois Point Lagoon	Unknown sheen sighting. Booms & absorbents applied, material contained. Sheen too light to pick up. Doing dive on the 27th.	Water			Unknown	NFA
Oahu	Pearl Harbor	20021011-0736 Ala Wai Boat Harbor 400 row Sheen 400 row, B-C dock	Unknown sheen.	canal			Unknown	NFA
Oahu	Pearl Harbor	20021127-1414 Pearl Harbor Pier B23, Navy Base Petroleum Based Haze- Grain Paint Pier B23	Release from vessel due to painting maintenance activity. 1.5 gal of paint.	Ocean	1.5 Gallons	Paint	Maintanance	NFA
Oahu	Pearl Harbor	20030128-1542 Pearl Harbor Pier H 3 USS Sacramento JP-5 spill	Material released from fuel hose due to onboard maintenance, .5 oz.	Ocean	0.5 Ounces	Jet Fuel JP-5	Vessel-Spill	NFA
Oahu	Pearl Harbor	20030129-1557 Pearl Harbor Naval Shipyard, Pier Seirra 21 Anti-Corrosive oil spill from propellor	Oil spill 1 gal, while removing part from ships rudder. Oil contained with boom and absorbents pads. 2/18/03 written report: Less then .25 gal of lubricating oil entered water.	Lava	1 Gallons	Lubricating Oil	Vessel-Spill	NFA

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Oahu	Pearl Harbor	20020823-1459 Pearl Harbor, Berth B3, unknown bubbles Pearl Harbor, Berth B3, unknown bubbles	The caller is reporting unknown bubbles releasing from an underwater 4-foot PVC pipe.					
Oahu	Pearl Harbor	20021009-1157 Unknown black Oil Bravo 13 Unknown black Oil Bravo 13	Unknown black oil at pier, source unknown. Samples taken. First reported to Navy at 6:00 am.	Ocean	5 Gallons	Black oil	Unknown	NFA
Oahu	Pearl Harbor	20020822-1647 Mike 4, Pearl Harbor Mike 4, Pearl Harbor	On scene operation team. OSOT. P/U sheen. Bilge/compensating water	Ocean	1 Gallons	bilge water		
Oahu	Pearl Harbor	20030216-2229 Pearl Harbor Naval Shipyard, Pier Seirra 21 Hydraulic oil from broken pipe	Hydraulic oil spilled from broken pipe on Navy vessel, spilling material into water. Written 3/4/03 amount released was .01 gal. Part Ops determined sheen too thin for absorbent.	Ocean	0.01 Gallons	Hydraulic Oil	Vessel-Equipment Failure	NFA
Oahu	Pearl Harbor	20020822-1622 Naval Station Pearl Harbor, oily residue Naval Station Pearl Harbor, oily residue	Caller reported a release of oil waste residue from a vessel due to operator error. Oil dissipate naturally. Release secured. Medium: Water	Ocean		Oil	Operator Error	NFA

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Oahu	Pearl Harbor	20030206-1135 Naval Station Pearl Harbor Bravo Pier 3 Sheen in harbor	Unknown sheen discovery in Pearl Harbor.	Ocean		Oil	Unknown	NFA
Oahu	Pearl Harbor	20021004-2341 Pearl Harbor Naval Shipyard S 1A PIER	Material released from broken bag.	Water		Hydraulic Oil	Unknown	NFA
Oahu	Punaluu	20030211-1300 Vehicle in Kahana Bay Vehicle in Kahana Bay	Stripped mini truck (Ford Ranger) , no license plates. No sheen (only in the morning), reported. Rocky Bay area.	Ocean		Unknown	Vandalism	Refer DOCARE
Oahu	Sand Island	20020716-1100 Sand Island State Recreation Area Sand Island State Recreation Area unknown substance	Unknown substance on shore/in water during high tide reported	Ocean		Motor Oil	Fugitive Dumping	Refer DLNR Boating
Oahu	Schofield Barracks	20020829-1424 Schofield Barracks - JOC Yard Duck Road, Buildig 935	Plastic bucket cracked and leaked.	Soil	4 Gallons	Oil, Used	Storage-Neglected	NFA

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Oahu	Schofield Barracks	20030117-1055 Schofield Barracks Building 652, 649, 650 Fuel Spill Bldgs 652, 649, 650	Fuel spill discovered at construction site at Schofield Barracks. Substance and quantity unknown at time of report.	Soil		Fuel	Fugitive Dumping	Send to ISST
Oahu	Schofield Barracks	20030320-1657 Kolekole Pass Hydraulic Fuel Spill Kolekole Pass Hydraulic Fuel Spill	Fuel spill noticed from under bucket loader due to broken fuel line. Release date/time unknown, may be over a long period. Amount unknown, estimated less than reportable quantity.	Soil			Equipment Failure	NFA
Oahu	Sunset	20021122-1630 Abandoned Drums, Kaunala Place Abandoned Drums, Kaunala Place	Contractor responded for removal of abandoned drums.	Other			Fugitive Dumping	NFA
Oahu	Sunset Beach	20021013-1620 Waialeale drums Waialeale drums	Drums stacked on property. Empty. Tops open. Drums used for jacking up houses.					NFA
Oahu	Unknown	20030215-1152 Prank Caller Asking sexual questions	Prank caller asking sexual questions.					NFA
Oahu	Unknown	20030215-0756 Chicken from Restaurant Taste like oven cleaner Chicken from Restaurant Taste like oven cleaner	Chicken from restaurant tasted like oven cleaner.			Unknown		Refer to Sanitation

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Oahu	Wahiawa	20021011-1318 Ridgecrest Paint Removal Ridgecrest Paint Removal	Removal of parking structure lines, using grinder and pressure washer caused paint debris to enter storm drain and spread around parking complex. Site cleaned up by owner.	Soil	1 Pounds	Lead	Maintanance	NFA
Oahu	Wahiawa	20021013-2208 Wahiawa WWTP Odor control unit turned off	Odor control unit turned off				Operator Error	NFA
Oahu	Wahiawa	20030525-1559 64-1700 Kamehameha Highway 64-1700 Kamehameha Highway - Asbestos Bag	Report of a bag labeled "Asbestos"				Unsecured Container	Refer to SHWB
Oahu	Wahiawa	20030528-1036 Helemano Military Reservation 154 Holo Kia Court Transformer Leaking Holo Kia Court	Transformer found leaking .	Soil				NFA
Oahu	Wahiawa	20030219-1835 Schofield Barracks Ahamaka Road Hydraulic Oil entered storm drain	5-7 gal release entered storm drain due to rain.	Storm Drain	5 Gallons	Hydraulic Oil	Hydraulic Line Rupture	NFA

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Oahu	Wahiawa	20030328-1510 Schofield Barracks Buildings T-674 & T-675 Spill Release - Bunker Fuel	Released caused by broken fuel line due to workers digging trench between buildings T-674 and 675.	Soil			Equipment Failure/Operator error	NFA
Oahu	Wahiawa	20030502-1522 Schofield Barracks Duck Road Abandoned vehicles end of Duck Road	Public owned vehicle leaking oil onto parking lot, less than 1 qt. More than 72 hrs.	Asphalt / soil		Motor Oil	Equipment Failure	NFA
Oahu	Wahiawa	20021231-1050 Schofield Barracks Duck Road Schofield Barracks Diesel Spill 2805 Duck Road	Diesel fuel spill occurred during refilling of truck.	Within Facility (Concrete Berm)	30 Gallons	Diesel, DL-2	Equipment Failure	NFA
Oahu	Wahiawa	20030104-2215 HECO transformers on Kamehameha Highway HECO pole-mount transformers #68711-68713	Leak from transformers, damaged on impact when poles fell during high, gusty winds. On 1/4/03, the transformers were replaced, and free product was removed from the road surface. On 1/5/03, petroleum-impacted soil was removed and the site was restored.	Soil	32 Gallons	Shell Diala Oil	Weather	

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Oahu	Wahiawa	20030116-1310 Mercury Release at N. Cane Street Mercury Release at N. Cane Street	Contractor respond and clean up of mercury release at N. Cane Street in Wahiawa. Appx 1' x 2' area affected HFD responding, HPD watched waited for PENCO crew; HFD left scenc.	Soil		Mercury	Fugitive Dumping	NFA
Oahu	Wahiawa	20030528-1037 Helemano Military Reservation O Pu Hue Court Transformer Leakeing O Pu Hue Court	Transformer found leaking.	Soil		Trans oil		NFA
Oahu	Waiahole	20021005-1125 Abandoned Paints, Waiahole Abandoned Paints, Waiahole	Approximately 20 paint containers abandoned along roadside.	Other		Oil based paint	Fugitive Dumping	NFA
Oahu	Waianae	20030626-1205 Abandoned Drum Lualuelei Homestead Rd. Abandoned Drum Lualuelei Homestead Rd.	Removal of abandoned drum at Lualuelei Homestead Rd.	Soil	55 Gallons	Oil	Fugitive Dumping	NFA
Oahu	Waianae	20021009-1540 Waianae WWTP Treatment Plant Malfunction	Treatment Plant Malfunction. Electirical Surge				Equipment Failure	NFA

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Oahu	Waianae	20020702-1358 Waianae Boat Harbor, diesel oil sheen Waianae Boat Harbor, diesel oil sheen	A diesel fuel sheen was discovered in the Waianae Boat Harbor from an unknown origin. 100 yds by 100 yds sheen.	Ocean		Diesel Oil	Unknown	NFA
Oahu	Waianae	20030617-0800 87-272 Maipalaoa Rd. City Bank/Victorino 87272 Maipalaoa Rd.	Abandoned solid and hazardous waste on property. Property foreclosed on by City Bank. Property manager is Ed Castro. Richard and Kanak Victorino still have access to property.	Soil			Storage-Neglected	Refer to SHWB
Oahu	Waianae	20030206-1000 Waianae Abandoned Paints Waianae Abandoned Paints	Penco responded to abandoned paints in Waianae.			Paints	Fugitive Dumping	NFA
Oahu	Waianae	20030523-1100 Waianae Valley Rd Sand Blast Grit Waianae Valley Rd Sand Blast Grit	Deliver sand blast grit(s) to analytical laboratory.	Soil		Possible metals	None	NFA
Oahu	Waianae	20030521-1315 Paakea Road Abandoned Drums Removal of Abandoned Drums	Respond to abandoned drums.	Soil		Oil	Fugitive Dumping	NFA

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Oahu	Waianae	20030304-0000 Hawaiian Homelands Waianae Dust in Area	Letter received noting that there is dust in the area from construction.					Refer to CAB
Oahu	Waianae	20020718-1449 Unknow Sheen Pacific Ocean 2 Miles NW of Mt. Lahi Lahi Unknown Sheen Pacific Ocean 2 Miles NW of Mt. Lahi Lahi	Unknown sheen in Pacific Ocean, 2 miles NW of Mt. Lahi Lahi. One mile by .5 mile sheen.	Ocean			Unknown	
Oahu	Waianae	20020902-0816 Waianae Boat Harbor Material released from Northern Express	Material being released from vessel due to unknown causes.	Ocean		Unknown	Unknown	NFA
Oahu	Waianae	20030505-1610 Pokai Bay Abandoned Drums at Pokai Bay Drive	Respond to abandoned drum at Pokai Bay Drive. Drum washed ashore.	Other	55 Gallons	oil	Unknown	NFA
Oahu	Waianae	20030406-1532 Paakea Road Pig Farm Smell from pig farm	Pig farm stinks.	Air			Unknown	Refer to Vector Control
Oahu	Waianae	20020726-1132 Waianae Boat Harbor Sheen Waianae Boat Harbor Sheen 07/26/2002	Anonymous caller reported sheen in water. Sheen odor: Diesel	Ocean		Diesel Fuel	Fugitive Dumping	NFA

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Oahu	Waianae	20020827-1415 87-381-E Kaukai Road Alleged Illegal dumping 87-381E Kaukai Road Alleged Illegal dumping	Allegations of fugitive dumping/illegal landfilling & waste disposal.			Waste Oil	Fugitive Dumping	Refer to SHWB
Oahu	Waianae	20020715-1503 Waianae Boat Harbor Sheen Unknown Sheen Near Pier A	Caller reported of unknown sheen near Pier A.	Water		Unknown Oil	Unknown	NFA
Oahu	Waikiki	20030610-0928 Ala Wai Canal Dredging Dredging operation 1--55 gal drum	Dredging operation pickup 1 x 55 drum. Approximately 1 gal of black liquid spilled out and floated on water.	Canal	1 Gallons	Petroleum	Fugitive Dumping	NFA
Oahu	Wailuku	20030610-0804 Maalaea Harbor, unknown sheen Maalaea unknown sheen 647003	Unknown sheen.	Ocean		Unknown	Unknown	NFA
Oahu	Waimanalo	20030612-2025 Waimanalo Propane Cylinders Waimanalo Propane Cylinders	Removal of propane cylinders.				Fugitive Dumping	NFA
Oahu	Waimanalo	20030612-2025 Waimanalo Propane Cylinders Waimanalo Propane Cylinders	Removal of propane cylinders.				Fugitive Dumping	NFA

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Oahu	Waimanalo	20020821-1852 Sea Life Park, release from a jar Sea Life Park, release from a jar	The caller is reporting material released from a jar onto sea bird due to unknown causes.					
Oahu	Waimanalo	20030227-0939 Waimanalo, No evidence of a spill Waimanalo, No evidence of a spill	No evidence of a spill.					
Oahu	Waipahu	20030603-1828 Abandoned HCL Drum at Leonui Street Abandoned HCL Drum at Leonui Street	Respond for removal of abandoned drum.	Asphalt	55 Gallons	HCL Drum	Fugitive Dumping	NFA
Oahu	Waipahu	20030612-0352 HECO Transformer 45731 Transformer 45731 spill	Rust-decayed transformer leaked oil to ground, soil surrounding and under the transformer's concrete pad. Spill was appx 32 gals .	Concrete / soil		Shell Diala Oil	Leaking-Over Time	NFA
Oahu	Waipahu	20030327-0830 Ken's Cleaners Ken's Cleaners drums on sidewalk	Reported 6-7 x 55 gallon drums on sidewalk fronting entrance; 4 of those drums contain spent Perc (all have proper labels). Point of contact: Dai Choi, VP and plant manager.					Refer to SHWB

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Oahu	Waipahu	20021117-1157 Abandoned Materials at Poailani Circle Abandoned Materials at Poailani Circle	Contractor responded to abandoned materials at Poailani Circle for removal/disposal of the materials.	Other			Fugitive Dumping	NFA
Open Ocean	Pacific Ocean	20020904-1626 Open Ocean Sheen 9 miles South of Kailua Bay	Discovery of diesel fuel sheen in Pacific Ocean.	Ocean			Unknown	NFA
Open Ocean	Pacific Ocean	20021012-1334 Open Ocean Unknown sheen NRC 625916	Sheen on water discovered at fueling dock.	Ocean		Unknown	Fugitive Dumping	NFA
Open Ocean	Pacific Ocean	20021006-1550 Open Ocean Brown Material Off Shoreline	Caller reports brown material in ocean 100 yds off shoreline. Shoreline is rocky.	Ocean			Unknown	NFA
Open Ocean	Pacific Ocean	20030609-1400 Open Ocean 200 gal Lubricating oil spill--SS Matsonia	Stern Tube Lube light oil spilled into Pacific Ocean from Stern Tube on Steam ship.	Ocean		Lubricating Oil	Vessel-Spill	NFA