

FY2012

SCHOFIELD BARRACKS
Army Defense Environmental Restoration Program
Installation Action Plan

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Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multiyear cleanup program for an installation. The plan identifies environmental cleanup requirements at each site or area of concern (AOC), and proposes a comprehensive, installation-wide approach, along with the costs and schedules associated with conducting investigations and taking the necessary remedial actions (RA).

In an effort to coordinate planning information between the restoration manager, Installation Management Command, Pacific Region (IMCOM-Pacific), the US Army Environmental Command (USAEC), Schofield Barracks, the executing agencies, regulatory agencies, and the public, an IAP was completed. The IAP is used to track requirements, schedules, and tentative budgets for all major Army installation cleanup programs.

All site-specific funding and schedule information has been prepared according to projected overall Army funding levels and is, therefore, subject to change.

Acronyms

ODUSD I&E	Office of the Deputy Under Secretary of Defense for Installation and Environment
AAFES	Army and Air Force Exchange Service
AEDB-CC	Army Environmental Database - Compliance-related Cleanup
AEDB-R	Army Environmental Database - Restoration
AOC	Area of Concern
ASTS	Air Stripping Treatment System
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CR	Compliance Restoration
CTT	Closed, Transferring, and Transferred
DD	Decision Document
DERP	Defense Environmental Restoration Program
DMM	Discarded Military Munitions
DoD	Department of Defense
DOH	Department of Health
DSMA	Disodium Methanearsenate
DU	Decision Unit
EAL	Environmental Action Level
EHMP	Environmental Hazard Management Plan
EPA	Environmental Protection Agency
ER,A	Environmental Restoration, Army
FFA	Federal Facilities Agreement
FRA	Final Remedial Action
FS	Feasibility Study
FY	Fiscal Year
GAC	Granular Activated Carbon
GW	groundwater
HDOH	Hawaii Department of Health
IA	Interim Action
IAP	Installation Action Plan
IMCOM	Installation Management Command
IMCOM-Pacific	Installation Management Command, Pacific Region
IMP(C)	Implementation (Construction)
INV	Investigation
IRA	Interim Remedial Action
IRP	Installation Restoration Program
IS	Incremental Sampling
ISC	Initial Site Characterization
K	thousand
KGC	Kalakaua Golf Course
LF	Landfill
LTM	Long-Term Management
LUC	Land Use Control
MC	Munitions Constituent
MD	Munitions Debris

Acronyms

MEC	Munitions and Explosives of Concern
MILCON	Military Construction
mm	millimeter
MMRP	Military Munitions Response Program
MR	Munitions Response
MRSPP	Munitions Response Site Prioritization Protocol
MSMA	Methanearsenate
MTBE	Methyl-Tert-Butyl-Ether
N/A	Not Applicable
NFA	No Further Action
NPL	National Priorities List
OE	Ordnance and Explosives
OU	Operable Unit
PA/SI	Preliminary Assessment / Site Inspection
PBA	Performance-Based Acquisition
PCB	Polychlorinated Biphenyl
POL	Petroleum, Oil, and Lubricants
ppb	parts per billion
PRG	Preliminary Remediation Goal
QA	Quality Analysis
RA	Remedial Action
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operation)
RAB	Restoration Advisory Board
RAC	Risk Assessment Code
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RI	Remedial Investigation
RIP	Remedy-in-Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
RSL	Regional Screening Level
SI	Site Inspection
SYST	System
TAPP	Technical Assistance for Public Participation
TBD	To be determined
TCE	trichloroethylene
TD	Transferred
TI	Technical Impracticability
TRC	Technical Review Committee
TRMT	Treatment
USAEC	US Army Environmental Command
USAG-HI	U.S. Army Garrison, Hawaii
USATHAMA	US Army Toxic and Hazardous Materials Agency (currently called USAEC)

Acronyms

USEPA	US Environmental Protection Agency
UST	Underground Storage Tank
UXO	Unexploded Ordnance
VOC	Volatile Organic Compound
WWII	World War II

Installation Information

Installation Locale

Installation Size (Acreage): 17725

City: Schofield Barracks

County: Honolulu

State: Hawaii

Other Locale Information

Schofield Barracks covers 17,725 acres in the north-central plateau of the island of Oahu, Hawaii. The facility is divided into two areas; the East Range and the Main Post. The facility lies approximately 22 miles northwest of the city of Honolulu. The area around the barracks is mostly agricultural land. The nearest municipality is Wahiawa, bordering the East Range to the north, supporting residential, commercial and light industrial uses. The town of Mililani lies approximately two and a half miles southeast of Schofield Barracks and is mostly used for residential and commercial purposes. Wheeler Army Airfield lies between the main post and the East Range.

Installation Mission

Schofield Barracks mission is to train, equip, and sustain the Army forces for the Pacific Theater.

Lead Organization

Lead Executing Agencies for Installation

USAEC

Regulator Participation

Federal

US Environmental Protection Agency (USEPA), Region IX

State

Hawaii Department of Health (HDOH)

National Priorities List (NPL) Status

A score of was recorded on 01-AUG-90.

Date for RA(C) Completion:

201412

Date for NPL Deletion: 200008

Installation Restoration Advisory Board (RAB)/Technical Review Committee (TRC)/Technical Assistance for Public Participation (TAPP) Status

Installation is in the process of determining interest in establishing a RAB.

Installation Program Summaries

IRP

Primary Contaminants of Concern: Volatiles (VOC)

Affected Media of Concern: Groundwater, Soil, Surface Water

MMRP

Primary Contaminants of Concern: Metals, Munitions and explosives of concern (MEC), Munitions constituents (MC)

Affected Media of Concern: Soil, Surface Water

CR

Primary Contaminants of Concern: Petroleum, Oil and Lubricants (POL)

Affected Media of Concern: Soil

5-Year / Periodic Review Summary

5-Year / Periodic Review Summary

Status	Start Date	End Date	End FY
Complete	200609	200709	2007
Complete	201201	201209	2012
Complete	200204	200204	2002

Last Completed 5-Year / Periodic Review Details

Associated ROD/DD Name	Sites
FINAL ROD FOR OU 4, SCHOFIELD BARRACKS	SCHBR-12
FINAL ROD FOR OU2, SCHOFIELD BARRACKS	SCHBR-19

Results

Actions

Plans

Recommendations and Implementation Plans:

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Land Use Control (LUC) Summary

LUC Title: OU 2 restrictions

Site(s): SCHBR-19

ROD/DD Title: FINAL ROD FOR OU2, SCHOFIELD BARRACKS

Location of LUC

OU 2 is groundwater located beneath Schofield Barracks, Wheeler Army Airfield and its surrounding region. OU 2 is actively being used as the drinking water source for Schofield Barracks, Wheeler Army Airfield, and nearby military facilities.

Land Use Restriction: Media specific restriction - Prohibit groundwater extraction that interferes with Remedial Action system, Media specific restriction - restrict drinking water well installation, Media specific restriction - restrict withdrawal or use of groundwater for agricultural/irrigation purposes, Media specific restriction - restrict withdrawal or use of groundwater w/out treatment

Types of Engineering Controls: None

Types of Institutional Controls: Deed Notices, Restrictions on Groundwater Withdrawal

Date in Place: 199702

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: Installation

Record of LUC: Master Plan or Equivalent

Documentation Date: N/A

LUC Enforcement: 5 Year Reviews

Contaminants: ORGANICS

Additional Information

N/A

LUC Title: OU 4 restriction

Site(s): SCHBR-12

ROD/DD Title: FINAL ROD FOR OU 4, SCHOFIELD BARRACKS

Location of LUC

OU 4 consists of the Schofield Barracks former landfill site, along the north west border of Schofield Barracks adjacent to Kahoolawe St. & Kauai St. It is approximately 45 acres in size.

Land Use Restriction: Landfill restriction - Prohibit activities that would impact the LF cap (or cover system) and drainage system, Landfill restriction - Prohibit excavation on LF cap or cover system, Landfill restriction - Restrict access to the site, Landfill restriction - Restrict construction of buildings that may interfere with LF cap or cover system, Landfill restriction - Restrict plantings that interfere LF cap or cover system (roots that penetrate the cap or cover system), Landfill restriction - Restrict vehicular traffic, Media specific - Prohibit activities that results in contact with contaminated sediments, Media specific restriction - Prohibit groundwater extraction that interferes with Remedial Action system, Media specific restriction - Prohibit, or otherwise manage excavation, Media specific restriction - restrict withdrawal or use of groundwater w/out treatment, Restrict land use - No residential use

Types of Engineering Controls: Fences, Signs

Types of Institutional Controls: Notations in Master Plan, Zoning

Date in Place: 199808

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: Installation

Record of LUC: Master Plan or Equivalent

Land Use Control (LUC) Summary

Documentation Date: N/A

LUC Enforcement: 5 Year Reviews

Contaminants: METALS, ORGANICS

Additional Information

N/A

Cleanup Program Summary

Installation Historic Activity

Schofield Barracks is an active US Army Garrison - Hawaii (USAG-HI) installation and is the largest Army post in Oahu. It was established in 1908 to provide a base for the Army's mobile defense of Pearl Harbor and the entire island. Initial construction of the post occurred between 1909 and 1917, when more than 250 buildings were erected. During the 1920s, expansion of Schofield Barracks continued as the infantry, cavalry, and artillery regiments were joined by a regional battalion, an ordnance company, an ammunition team, a tank company, a medical regiment, a maintenance squadron, and chemical gas regiment units. These types of units continue to operate at Schofield Barracks.

In 1941, following the attack at Pearl Harbor by the Japanese, Schofield Barracks became a supply base and command center for the war in the Pacific. Facilities were expanded when training camps were established because of increased wartime operations. During the war, Schofield Barracks is reported to have housed as many as 100,000 Soldiers at one time.

After World War II (WWII), the population of Schofield Barracks declined sharply; however, a resurgence was experienced in 1951 when the Hawaiian Infantry Center was established as a basic training center for troops bound for the Korean War. Another resurgence in the population at the site occurred in 1954 when the 25th Infantry Division returned to headquarters at Schofield Barracks.

As headquarters for the 25th Infantry Division, 45th Sustainment Brigade, and numerous tenants, Schofield Barracks currently houses approximately 25,000 individuals. Its mission is to provide administration, training, and housing facilities for these units, as well as depot and repair facilities, a medical facility, and community and housing support. General operations performed at Schofield Barracks include administration, training, and small-scale industrial operations. No major industrial operations are performed at the site. Small-scale industrial operations include:

- Vehicle repair, maintenance, rust proofing and painting
- Weapons refinishing
- Optical instrumentation maintenance
- Laundry Operations
- Photography
- Electrical equipment service
- Training aids manufacturing
- Building maintenance and repair
- Medical laboratory operations
- Sewage treatment, and
- Municipal activities.

Training activities at Schofield Barracks consist of non-firing and firing activities. Non-firing activities are conducted primarily in the East Range area and predominantly consist of field tactical training, tactical problem-solving, and routine bivouac. Firing activities, which involve the use of live ammunition, are conducted primarily near the west side of installation.

In April 1985 the Army notified the HDOH that high levels [30 parts per billion (ppb)] of trichloroethylene (TCE) had been detected in wells supplying drinking water to 25,000 people at Schofield Barracks. An additional 55,000 people in Wahiawa and Mililani obtain drinking water from public wells within three miles of hazardous substances on the base. Within three miles downstream of the installation, Wahiawa Reservoir is used to irrigate 3,000 acres of pineapple fields and is also used for recreational activities.

An Army investigation in May 1985 confirmed TCE contamination of the drinking water wells. In September 1986, the Army installed an air stripping facility to remove TCE from the contaminated Schofield Barracks wells, making the water safe to drink.

In July 1989 Schofield Army Barracks was proposed for the NPL and in September 1990 it was placed on the final list as a result of contamination of the sole source drinking water aquifer. In September 1991 the Army and the USEPA Region IX signed a Federal facilities agreement (FFA). Hawaii signed the FFA in June 1996. The Defense/State memorandum of agreement and cooperative agreement have also been signed and oversight personnel have been hired by the state.

During the course of the groundwater investigation, six public meetings and 10 TRC meetings were held on Schofield and in Wahiawa. There was no public interest for formation of a RAB at those meetings.

In September 1998 the USEPA placed the installation in the "Construction Completion" category, subsequent to the completion of repairs made on the landfill cap. The Army submitted the final closure report to the USEPA in December 1998. Schofield Barracks was removed from the USEPA's NPL in August 2000.

Cleanup Program Summary

Installation Program Cleanup Progress

IRP

Prior Year Progress: Long-term management (LTM) is ongoing for operable unit (OU)-2 and OU-4.

Future Plan of Action: The LTM and maintenance programs for OU-2 and OU-4 will be continued.

MMRP

Prior Year Progress: A performance-based acquisition (PBA) contract was awarded to achieve response complete (RC) at SCHBR-004-R-01, SCHBR-010-R-01, and SCHBR-013-R-10 by December 2014. The PBA also funded site SCHBR-012-R-01 through RC by January 2013 and SCHBR-008-R-01 to RC by August 2012.

Future Plan of Action: A PBA contract was awarded to achieve RC at SCHBR-004-R-01, SCHBR-010-R-01, and SCHBR-013-R-10 by December 2014. The PBA also funded site SCHBR-012-R-01 through RC by January 2013 and SCHBR-008-R-01 to RC by August 2012.

CR

Prior Year Progress: The environmental hazard management plan (EHMP) will be finalized for CCSB0004 during FY12.

Future Plan of Action: LTM at CCSB0004 will be required following implementation of the RA in FY12.

SCHOFIELD BARRACKS
Army Defense Environmental Restoration Program
Installation Restoration Program

IRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 125/123

Installation Site Types with Future and/or Underway Phases

- 1 Contaminated Ground Water
(SCHBR-19)
- 1 Landfill
(SCHBR-12)

Most Widespread Contaminants of Concern

Volatiles (VOC)

Media of Concern

Groundwater, Soil, Surface Water

Completed Remedial Actions (Interim Remedial Actions/ Final Remedial Actions (IRA/FRA))

Site ID	Site Name	Action	Remedy	FY
SCHBR-42	FORMER STORAGE TANKS, 5 USTS (FFA 30)	IRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1992
SCHBR-126	QUAD B USTS	IRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1994
SCHBR-127	QUAD E USTS	FRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1994
SCHBR-128	QUAD F USTS	FRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1994
SCHBR-129	BLDG 665 USTS	FRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1994
SCHBR-130	HEALTH CLINIC USTS	FRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1994
SCHBR-131	QUAD I UST	FRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1994
SCHBR-132	QUAD J UST	FRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1994
SCHBR-42	FORMER STORAGE TANKS, 5 USTS (FFA 30)	FRA	THERMAL DESORPTION	1996
SCHBR-12	FORMER LANDFILL (FFA 7)	FRA	CAPPING	1998
SCHBR-64	MAINTENANCE AREA E (FFA 3/6)	FRA	EX SITU SOIL TREATMENT	1999
SCHBR-106	OPEN STORAGE AREA (1977) (FAA 74)	IRA	EX SITU SOIL TREATMENT	2000
SCHBR-126	QUAD B USTS	FRA	WASTE REMOVAL - SOILS	2000
SCHBR-134	MAINTENANCE AREA, BLDG 368 (FFA 72B)	FRA	EX SITU SOIL TREATMENT	2000
SCHBR-80	MAINTENANCE AREA U (FFA 3/11)	FRA	EX SITU SOIL TREATMENT	2000

Duration of IRP

Date of IRP Inception: 198306

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 200112/199809

Date of IRP completion including Long Term Management (LTM): 204209

IRP Contamination Assessment

Contamination Assessment Overview

Initial investigations at Schofield Barracks were conducted in 1983 and 1984 as part of the Army's initial installation assessment program ("Installation Assessment of US Army Support Command, Hawaii", US Army Toxic and Hazardous Materials Agency (USATHAMA), May 1984). No significant sources of contamination were identified and no further action (NFA) was recommended.

The recent history of environmental investigations at Schofield Barracks began in April 1985 when TCE was reported in the Schofield Barracks supply wells. The Army informed the HDOH that up to 30 ppb of TCE had been detected in the water supply wells that provide drinking water to over 25,000 people on post. Potential contamination of the local aquifer was of concern because an additional 55,000 persons in Wahiawa and Mililani obtain drinking water within three miles of the base. In 1986, in response to the detection of TCE in its water wells, the Army installed an air stripper treatment system to remove TCE from the drinking water.

In 1985, following discovery of TCE in the water supply, the US Army Environmental Hygiene Agency conducted an investigation of drinking water contamination by trichloroethylene. The resulting report ("Investigation of Drinking Water Contamination by Trichloroethylene, Schofield Barracks") identified several potential generators and sources of TCE in and around Schofield Barracks, including areas in the East Range and the former landfill (OU 4).

In July 1989, based on the presence of TCE in a sole source drinking water aquifer above the Safe Drinking Water Act maximum contaminant level of five ppb, Schofield Barracks was proposed for the NPL and subsequently placed on the list in September 1990 with a hazard ranking score of 28.9. An FFA was then negotiated with the Army, the USEPA Region IX, and the HDOH for the conduct of a comprehensive environmental investigation of Schofield Barracks.

In August 1990 the USATHAMA conducted an assessment of all hazardous waste sites on Schofield Barracks. The "USATHAMA Property Report - Schofield Army Barracks," prepared by Roy F. Weston, Inc. (Weston, 1990), identified and scored all hazardous waste sites on Schofield Barracks. This report formed the basis for the sites specified in the FFA for investigation and the current list of 125 sites under the AEDB-R.

In FY92 under the installation restoration program (IRP), a preliminary assessment (PA)/site investigation (SI) was conducted by the USATHAMA (Harding Lawson Associates, 1992) to aid in scoping the RI/feasibility study (FS) efforts for OUs 1, 2, and 4. Under the PA/SI, sampling at OU 1 sites was limited to borings at the Former Laundry (SCHBR-19) and it was recommended for NFA based on the SI and records review. All other sites were recommended for further investigation for TCE contamination under the RI program initiated in January 1993.

Other related environmental studies include two investigations of the former landfill. Because the site's landfill permit was due to expire on Dec. 31, 1981, a study was conducted in 1980, under contract to Kennedy Engineers, to examine various options for solid and hazardous waste disposal at Schofield Barracks. The key report comprising this study was the solid and hazardous waste disposal plan which has two companion documents: the interim disposal alternatives report and the closure of existing landfill report. Details of this study are provided under specific discussion of the landfill (OU 4, AEDB-R Site 12).

OU 1: RI investigations conducted from March 1993 through September 1993 concluded that none of the 11 sites are sources of TCE contamination and that none of the sites require further investigation. As a result, a NFA / record of decision (NFA/ROD) was signed by the Army and the USEPA in November 1995 and February 1996 respectively.

OU 2: Phase I RI investigations (February 1993 through May 1994) focused on collecting groundwater data from municipal and irrigation wells surrounding Schofield Barracks to determine the extent of impacted wells. OU 2 investigations also evaluated wellhead treatment as the remedy. In October 1994 Phase II OU 2 RI and OU 4 FS field efforts were initiated to support preparation of RI and FS reports, proposed plans, and RODs.

With the completion of repairs to the landfill cap in July 1998 and the completion of the preliminary closeout report, the USEPA determined that all construction activities related to CERCLA remedial actions at Schofield Barracks have been completed according to the requirements of the ROD for the four OUs. Consequently, on Sept. 22, 1998 the USEPA classified Schofield Barracks in the "Construction Completion" category. The final closeout report was submitted to the USEPA on Dec. 1, 1998.

OU 3: The PA and/or RI investigations performed for each of the sites covered under OU 3 concluded that chemicals detected in the soil, surface water, and sediment do not pose a threat to human health or the environment and that there is no route of exposure; therefore, no RAs at the OU 3 sites were necessary. As a result, in November 1996 an NFA/ROD was signed by the

IRP Contamination Assessment

Contamination Assessment Overview

Army and the USEPA.

OU 4: The RI investigations conducted from February 1993 through March 1994 concluded that the landfill is a continuing source of TCE and carbon tetrachloride in the groundwater; however, groundwater flow direction eliminates the landfill as the TCE source affecting the Schofield Supply Wells.

Schofield Barracks was formally removed from the USEPA's NPL in August 2000. Five-year reviews of the effectiveness of remedies under the OU 2 and OU 4 programs were completed in 2002 and 2007. Monitoring of the groundwater under OU 2 and OU 4 and landfill gas (methane) under OU 4 has been continually conducted.

Cleanup Exit Strategy

In 1998 when the ROD was negotiated with the USEPA and the HDOH, a groundwater remediation alternative such as pump and treat was evaluated as technically impractical. Therefore, a technical impracticability waiver was obtained from the USEPA with concurrence from HDOH. The high permeability of the aquifer below Schofield would have required that a large amount of groundwater be pumped and treated, since the source of the TCE was never found. The depth of groundwater at Schofield Barracks is on the order of 600 feet, and the cost of drilling is very high; this also contributed to the technical impracticability waiver granted by the USEPA.

The selected remedial option for the landfill was to repair and resurface the existing cover to restore the engineered slope of the vegetative cover so storm water could be quickly channeled off-site. This prevents additional infiltration of groundwater to the aquifers below. A wellhead treatment option was selected. Under this scenario, any wells downgradient of Schofield Barracks that contain TCE will be investigated and if the contamination is found to be attributable to the Army, it will be addressed in accordance with the Schofield Barracks ROD.

All of these requirements are included in the performance-based contract (PBC) contractor's scope. The 10-year contract extends through 2016.

The IRP was developed around four OUs: OU 1 consists of suspected sources of TCE contamination and is considered RC, OU 2 is the contaminated groundwater system underlying the sub-installation, OU 3 consists of other hazardous waste sites identified on the sub-installation and is considered complete, and OU 4 consists of the former Schofield Barracks Landfill (AEDB-R, SCHBR-12). The program was conducted in three phases to address the most critical problem first (TCE contamination) and follow-up on less critical hazardous waste sites on the sub-installation. Both OU2 and OU4 are currently under LTM.

IRP Previous Studies

Year	Title	Author	Date
1976	Possible effects of increasing pumpage from the Schofield GW Body, Oahu, HI	US Geological Survey	MAY-1976
1978	Schofield Barracks Analysis of Existing Facilities Environmental Assessment Report, Master Plan Basic Information Maps	Towill	AUG-1978
1979	Land Management/Erosion Control Study USASCH Installations, HI, Schofield Barracks Military Reservation	Walter Lum	MAR-1979
1980	Supplement Sanitary Landfill Study, Schofield Barracks, Oahu, HI, Closure of Existing Landfill	Kennedy Engineers	NOV-1980
1981	Field Investigation of Uncontrolled Hazardous Waste Sites, Site Inspection Report on Schofield Barracks Landfill	Ecology and Environment	JAN-1981
1992	Final Preliminary Assessment/Site Investigation Report for OU 1, 2, and 4 Volumes I-III, Schofield Barracks, Oahu, HI	Harding Lawson	MAY-1992
	Site Analysis, Schofield Barracks, HI	The Bionetics Corporation	SEP-1992
1993	Characterization and Disposal Study of Sediment sampled from 5 Sedimentation Basins, Schofield Barracks, Oahu, HI	Belt Collins and Associates	MAR-1993
1995	Final Remedial Investigation Report for OU 1, Volume I-II, Schofield Barracks, Oahu, HI	Harding Lawson	APR-1995
	Final Record of Decision for OU 1, Schofield Barracks, Oahu, HI	Harding Lawson	SEP-1995
1996	Final Remedial Investigation Report, OU 3, Schofield Barracks, Oahu, HI , Volumes 1-6	Uribe and Assoc.	MAR-1996
	Final Feasibility Study Report for OU 2, Schofield Barracks, Oahu, HI	Harding Lawson	MAY-1996
	Final Record of Decision for OU 4 , Schofield Barracks, Oahu	Harding Lawson	JUL-1996
1997	Justification for a TI Waiver at Schofield Barracks for the Groundwater Record of Decision	NA	FEB-1997
	Public Health Assessment for Schofield Barracks, Honolulu County, HI	NA	OCT-1997
2002	Final First Five-Year Review Report for OU 2 and OU 43, Schofield Barracks, Oahu, HI	Harding Lawson	SEP-2002
2007	Final Second Five-Year Review Report for Operable Units 2 and 4, Schofield Barracks, Sites 12 and 19	MACTEC Engineering and Consulting, Inc.	SEP-2007

SCHOFIELD BARRACKS
Installation Restoration Program
Site Descriptions

Site ID: SCHBR-12
Site Name: FORMER LANDFILL (FFA 7)

STATUS

Regulatory Driver: CERCLA

RRSE: HIGH

Contaminants of Concern: Volatiles (VOC)

Media of Concern: Groundwater, Soil, Surface Water

Phases	Start	End
PA.....	198401.....	199302
SI.....	199106.....	199302
RI/FS.....	199302.....	199512
RD.....	199604.....	199608
RA(C).....	199611.....	199807
LTM.....	199809.....	204209

RIP Date: N/A

RC Date: 199809

SITE DESCRIPTION

The OU 4 consists of the former Schofield Barracks Sanitary Landfill (SCHBR-12), which was operated from 1967 to 1981, is located in an area which was used as a burn site from 1942 until 1967. Quantities and types of waste that were burned are unknown; however, interviews with former site personnel suggested that excess gun powder, paper and building debris may have been burned at the site. The landfill received waste from various military sub-installations on Oahu, including domestic, construction, medical, and hazardous wastes such as acids, bases, digested sewer sludge, medicines, inorganic compounds, spent pesticide and fluoride containers, and unusable paints.

Landfill operation inadequacies resulted in refuse being dumped over the edge of the landfill, underground fires, leachate production, methane gas production and emission, slope instability, odors, ponding water, and vectors. Analysis of samples collected before landfill closure indicated high turbidity and pesticides or herbicides.

The 1981 USEPA field inspection report concluded that previous hazardous waste disposal at the site was very likely to occur. It suggested that the most immediate environmental threat was from the instability of the landfill and its erosion. Additionally, the climate and geologic conditions at the site allowed the generation and movement of leachate.

In 1981 the landfill was closed and capped with a clay cover in 1982. The FY92 PA/SI included a soil gas survey of the landfill which indicated VOCs contamination including TCE and dichloroethylene. The RI Phase I was conducted between March 1993 and January 1994, including soil gas surveys, lysimeter installation and sampling, deep soil sampling and installation of monitoring wells. Results of the RI Phase I indicated that the landfill is a continuing source of contamination to the groundwater, but is not the source of the TCE contamination found at the Schofield Barracks supply wells.

Further investigations of the landfill, conducted under the FS phase to expedite the site investigation, were limited to collecting data required to design a more effective cap to reduce the impacts and to determine whether hot spot removal was feasible. The OU 4 FS Report, which was finalized in December 1995, recommended re-grading the cap to its original design, installing gas monitoring wells around the landfill perimeter to comply with Resource Conservation and Recovery Act (RCRA) requirements, installing a passive landfill gas venting system, and re-vegetation of the cap. The LTM of the cover was also recommended in the FS report. In April 1996 a proposed plan was released for public review. The ROD was completed and signed by the Army, the state of Hawaii, and the USEPA Region IX in September 1996, November 1996, and November 1996, respectively.

In August 1998 the repair/maintenance action at the landfill was completed. The landfill cap was cleared of Guinea grass and regraded. Other improvements included a drainage system and installation of gas wells. In March 2001 maintenance actions to repair cracks were completed. Cracks continue to appear on the landfill and apparent signs of settling are visible.

In 1997 a waiver for technical impracticability (TI) was granted by USEPA Region 9 for OU 2 and OU 4 and was approved by the regulatory agencies in 1997. The facility was removed from the NPL in 2000.

Extensive damage to the central drainage channel occurred during a heavy rainfall event on Dec. 11, 2008. The cap of the landfill

Site ID: SCHBR-12
Site Name: FORMER LANDFILL (FFA 7)

was not impacted, but further erosion could have impact. Drainage repair were completed in end of 2010. The repairs were funded in an out-of-contract modification.

A performance-based contract (PBC) for LTM was awarded in September 2006 and runs through December 2014. A 5-year Review was conducted in FY12. The next five-year review is schedule for FY15.

During the last five-year review, cessation of methane monitoring was suggested because methane was not detected during several previous rounds of monitoring; the USEPA and HDOH concurred.

CLEANUP/EXIT STRATEGY

Implementation of LTM is underway at SCHBR-12 in accordance with the Operations and Maintenance (O&M) Plan. Long-term groundwater monitoring and maintenance at the landfill is ongoing to address cracks and settlement that continue to be a problem. Side slopes require additional maintenance. Quarterly inspections of the cap and drainage system for regulatory reporting are conducted. Applying herbicide to Guinea grass, cutting of grass, and repairs of the landfill cap and side slope are ongoing as part of the long-term maintenance plan.

A part of the LTM goal is to reduce the sampling frequency at some of the wells. The next review will be in March 2012. The current PBC covers up to FY16, and LTM and five-year reviews will be required beyond that.

Site Name: OU2 Groundwater Contamination

STATUS

Regulatory Driver: CERCLA

RRSE: HIGH

Contaminants of Concern: Volatiles (VOC)

Media of Concern: Groundwater

Phases	Start	End
PA.....	198306.....	199205
SI.....	199108.....	199205
RI/FS.....	199111.....	199608
LTM.....	199702.....	204209

RIP Date: N/A

RC Date: 199702

SITE DESCRIPTION

The function of OU-2 is to address base-wide groundwater contamination. The groundwater is located at 550 to 650 feet below ground surface (bgs). Trichloroethene was detected in the SB water-supply wells in 1985, and its source could not be identified. Due to the detection of TCE, SB was on the NPL and delisted in 2000. SB overlies the Wahiawa Aquifer that combined with the Honolulu-Pearl Harbor Basal Water Body into which 80 percent of the Schofield Aquifer flows is the main fresh water source for the island of Oahu. The level of detected TCE was above the Safe Drinking Water Act maximum contaminant level of five ppb. It was first detected during the initial investigation of GW contamination in SB. The investigation was limited to the SB Water Supply wells.

An air stripper treatment system (ASTS) was installed and operated in 1986 at the supply wells to treat approximately six million gallons of water per day from the Wahiawa Aquifer to provide for military personnel at SB. The operation of the ASTS has been ongoing until present, along with continued monitoring of the extent of the plume. The plume has remained stationary. The approximate annual total of pure TCE withdrawn from the system is approximately 33 gallons per year, or less than one drum of TCE. Observations of well concentration data have determined that well No. 4 has the highest levels of TCE (30 to 40 ppb) and the concentrations in the three remaining wells tend to rise when well No. 4 is shut down. Based upon the location of well No. 4, the TCE plume has been projected to lie to the east and south of the SB water supply wells.

In FY92, a PA/SI was completed. The survey identified 39 wells within a six-mile radius of the SB wells. The wells identified were a mix of Army wells, privately owned wells, and Board of Water Supply wells. Ten were randomly selected for VOCs sampling. One well, west of Wheeler Army Airfield, detected TCE levels at 5.3 ppb; all others were below detection. The PA/SI sampling results indicated that TCE is present in the Schofield supply wells, wells at Kunia on the west side of Wheeler Army Air Field, and a number of monitoring wells in the Schofield vicinity. Phase II RI field investigations were conducted between October 1994 and August 1995. The Phase II RI investigations focused on collecting data to support the implementation of a point-of-use treatment approach for the final GW remedy. Under this approach the Army monitors surrounding wells and treat GW only where it is pumped and used. No active pump-and-treat system will be installed based on technical and economic impracticability. In April 1996 the final Phase II RI report was submitted to the regulatory agencies. The FS (1996), which evaluates a full range of wellhead treatment alternatives, was completed. A proposed plan to continue treatment at the SB Water Plant, monitor wells in the area for any migration of the TCE plume, and to install wellhead treatment at any municipal wells that are impacted, was distributed to the public. Concentrations of TCE and carbon-tetrachloride have generally remained the same in impacted wells from 1993 through the present. In 1997 a TI waiver was granted for OU 2 by USEPA Region 9; it was approved by the regulatory agencies in 1997. The ROD was signed by the Army, the HDOH, and the USEPA in September 1996, November 1996, and February 1997, respectively. An RC was achieved in 1997.

A performance-based contract was awarded in 2006 and runs through December 2014. The LTM, as estimated by the PBA contract will continue for this site, which includes the operation and maintenance of the ASTS at the Kunia Village well. A second ASTS was installed in FY11 for the Sandwich Isle Communications Inc. well to provide approximately one million gallons of water per day for irrigation and a 40-person work building. The LTM for the new ASTS is funded under a separate contract from the PBC award.

A RAB solicitation occurred in FY11.

Site ID: SCHBR-19

Site Name: OU2 Groundwater Contamination

CLEANUP/EXIT STRATEGY

Implementation of LTM is underway to address the impacts of SB operations on the regional groundwater contamination by TCE and carbon tetrachloride. The O&M of the ASTS at the Kunia Village (formerly Del Monte) well is included in the scope. Part of the exit strategy is to reduce the amount of long-term monitoring by reducing the sampling frequency and number of constituents of concern at OU 2. The LTM and five-year reviews will be required beyond FY16. Groundwater monitoring, well and pump maintenance, and LTM reports are part of the LTM effort at this site.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
SCHBR-01	FIRING RNG BURNING AREAS (FFA 50)	199509	Final RI Report for OU 1, Schofield Barracks, Hawaii, 17 April 1995
SCHBR-02	DFE ENTOMOLOGY - BLDG 368 (FFA 38)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-03	DFE LAND MGMT BRANCH BLD 379 (FFA 39)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-04	BEHIND BLDG 379 WASHRACK (FFA 39)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-05	DPCA GOLF COURSE BLDG 6019 (FFA 37)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-06	ADJ TO BLDG 6019 CONCERT APRON (FFA 37)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-07	AREA R WST STG AREA (FFA 20)	199509	Final RI Report for OU 1, Schofield Barracks, Hawaii, 17 April 1995
SCHBR-09	BLDG T 2140 SPRAY PNT BOOTH (FFA 45)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-100	DARK STAINED AREAS (1962) (FFA 68)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-101	OPEN STORAGE AREAS (1942-1953) (FFA 69)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-102	OPEN STORAGE AREA (1942-1968) (FFA 70)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-103	OPEN STORAGE AREA (1955) (FFA 71)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-104	OPEN STORAGE AREA (1942) (FFA 72A)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-105	MOTOR POOL (1942) (FFA 73)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-106	OPEN STORAGE AREA (1977) (FAA 74)	200112	Final Remedial Investigation Report, Operable Unit 3, Schofield Barracks, Island of Oahu, Hawaii, 1996 - No COCs found on-site
SCHBR-107	PROBABLE CONTAINERS/OS (1950-51)(FFA 75)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-108	LIGHT OBJECT/OPEN BURNING(1942) (FFA 76)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-109	LIGHT & MED TONE OBJECTS (1942) (FFA 77)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-110	OPEN STORAGE AREAS (1942) (FFA 78)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
SCHBR-111	LIGHT TONE OBJECTS (1942) (FFA 79)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-112	POSSIBLE TRENCH (1953) (FFA 80)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-113	INDUSTRIAL OPS/OPEN STOR (1942)(FFA 81B)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-114	TRENCH (FFA 82)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-115	OPEN STORAGE/MOTOR POOL (FFA 83)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-116	OPEN STORAGE/MOTOR POOL (FFA 84)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-117	OPEN STORAGE/MOTOR POOL (FFA 85)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-118	OPEN STORAGE (1942-55) (FFA 86)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-119	OPEN STORAGE/MOTOR POOL(1950-59)(FFA 87)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-120	MOTOR POOL (1955-78) (FFA 88)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-121	OPEN STORAGE/POSS PITS(1951-59)(FFA 89)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-122	MOTOR POOL/DARK STAINS (1959-70)(FFA 90)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-123	REFUSE (1942) (FFA 91)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-124	OPEN STORAGE (1950) (FFA 92)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-125	OPEN FIRE (1951)/(1955) (FFA 93)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-126	QUAD B USTS	200009	Heating Oil UST Field Investigation, Quad B, Tanks 155 - 158, 1996
SCHBR-127	QUAD E USTS	199409	
SCHBR-128	QUAD F USTS	199409	
SCHBR-129	BLDG 665 USTS	199409	Final Closure Report, Tank Sites 665-1 & 665-2, Schofield Barracks, Removal of Underground Fuel Storage Tanks at Various US Army Facilities, Hawaii 1994
SCHBR-13	STP NO BYPASS PROVISIONS (FFA 56)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-130	HEALTH CLINIC USTS	199409	
SCHBR-131	QUAD I UST	199409	
SCHBR-132	QUAD J UST	199409	

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
SCHBR-133	TWO PITS (1962) (FFA 64B)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-134	MAINTENANCE AREA, BLDG 368 (FFA 72B)	200009	Final Remedial Investigation Report, Operable Unit 3, Schofield Barracks, Island of Oahu, Hawaii, 1996 - No COCs found on-site
SCHBR-15	CENTRAL RANGES (FFA 15)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-16	EAST RANGE DISPOSAL SITE (FFA 51)	199509	Final RI Report for OU 1, Schofield Barracks, Hawaii, 17 April 1995
SCHBR-17	FORMER LAUNDRY (FFA 52)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-18	ACID PIT (FFA 46)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-20	DRUM STORAGE AREA (FFA 1)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-21	VEHICLE SCRAP YARD (FFA 2)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-26	TASC (BLDG 2061)(FFA 9)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-27	BLDG T-1125, TARGET SHOP (FFA 10)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-28	BLDG T-2276 (FFA 12)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-29	BLDG 2275 TARGET REP/CARPENT SHOP(FFA 16)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-30	MAINTENANCE AREA (BLDG T-1029) (FFA 17)	199509	Final RI Report for OU 1, Schofield Barracks, Hawaii, 17 April 1995
SCHBR-31	DISTRIBUTION WH (BLDG T-1052) (FFA 18)	199509	Final RI Report for OU 1, Schofield Barracks, Hawaii, 17 April 1995
SCHBR-32	BATTERY SHOP(BLDG T-1081) (FFA 19)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-33	PEST CONTROL SHOP (BLDG 370/380)(FFA 21)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-34	PEST CONTROL SHOP (FFA 22)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-35	ARTS & CRAFTS (BLDG 585) (FFA 23)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-36	AUTOCRAFT CAR WASH (BLDG 910) (FFA 24)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-37	AUTOCRAFT SHOP (BLDG 910) (FFA 25)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
SCHBR-38	CAR CARE (BLDG 80) (FFA 26)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-39	VETERINARY CLINIC (FFA 27)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-40	HEALTH CLINIC (FFA 28)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-41	INCINERATOR (BLDG 673) (FFA 29)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-42	FORMER STORAGE TANKS, 5 USTS (FFA 30)	199712	
SCHBR-43	DENTAL CLINIC (FFA 31)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-44	24-HOUR PHOTO SERVICE (FFA 32)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-45	MAINT AREAS (BLDG T-2054,T-2060)(FFA 33)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-46	WEAPONS MAINTENANCE (BLDG 2131)(FFA 34)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-47	OPTICAL REPAIR (BLDG 1054) (FFA 35)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-48	GAS CHAMBER (BLDG 2253C) (FFA 36)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-49	TRANSFORMERS (9) (FFA 40)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-50	TRANSFORMER LEAK AREA (FFA 41)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-51	MAINTENANCE AREA (BLDG 387) (FFA 42)	199509	Final RI Report for OU 1, Schofield Barracks, Hawaii, 17 April 1995
SCHBR-52	AMMO STORAGE BUNKERS (27) (FFA 43)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-53	CHEM IMPREG PLANT (BLDG 2308) (FFA 44)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-54	PHOTO OPERATIONS (BLDG 2065) (FFA 47)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1,2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-55	BLDG 370B INDUSTRIAL OPS (FFA 48)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1, 2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-56	AIRCRAFT FUSELAGE AREA (FFA 54A)	199509	Final RI Report for OU 1, Schofield Barracks, Hawaii, 17 April 1995
SCHBR-57	TUNNELS (FFA 55)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1, 2, and 4, Schofield Barracks, Hawaii, May 1992

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
SCHBR-58	LANDFILL 3 VARIOUS LOCATIONS (FFA 49)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1, 2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-60	MAINTENANCE AREA A (FFA 3)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1, 2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-61	MAINTENANCE AREA B (FFA 3/11)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-62	MAINTENANCE AREA C (FFA 3/11)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-63	MAINTENANCE AREA D (FFA 3/11)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-64	MAINTENANCE AREA E (FFA 3/6)	199905	NFA based on Final Record of Decision, Operable Unit 3, Schofield Barracks, Island of Oahu, Hawaii, 1996
SCHBR-65	MAINTENANCE AREA F (FFA 3/11)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1, 2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-66	MAINTENANCE AREA G (FFA 3/11)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1, 2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-67	MAINTENANCE AREA H (FFA 3)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-68	MAINTENANCE AREA I (FFA 3/11)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-69	MAINTENANCE AREA J (FFA 3/6)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-70	MAINTENANCE AREA K (FFA 3/11)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-71	MAINTENANCE AREA L (FFA 3/11)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-72	MAINTENANCE AREA M (FFA 3/11)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1, 2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-73	MAINTENANCE AREA N (FFA 3/11)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1, 2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-74	MAINTENANCE AREA O (FFA 3/6/11)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-75	MAINTENANCE AREA P (FFA 3/11)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-76	MAINTENANCE AREA Q (FFA 3/11)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1, 2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-77	MAINTENANCE AREA R (FFA 3/11)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-78	MAINTENANCE AREA S (FFA 3/11)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-79	MAINTENANCE AREA T (FFA 3/11)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1, 2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-80	MAINTENANCE AREA U (FFA 3/11)	200009	NFA based on Final Record of Decision, Operable Unit 3, Schofield Barracks, Island of Oahu, Hawaii, 1996
SCHBR-81	MAINTENANCE AREA V (FFA 3)	199610	Final RI Report for OU 3, Schofield

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
			Barracks, Hawaii, March 1996
SCHBR-82	MAINTENANCE AREA W (FFA 3/6)	199610	NFA based on Final Record of Decision, Operable Unit 3, Schofield Barracks, Island of Oahu, Hawaii, 1996
SCHBR-83	MAINTENANCE AREA X (FFA 3/11)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1, 2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-84	MCCARTHY FLATS RANGES (FFA 13)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1, 2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-85	KOLEKOLE FIRING RANGES (FFA 14)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1, 2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-86	TRANSFORMER STORAGE AREA (FFA 40)	199302	Final Preliminary Assessment/Site Inspection Report for OU 1, 2, and 4, Schofield Barracks, Hawaii, May 1992
SCHBR-87	AIRCRAFT STORAGE BUNKERS (FFA 54B)	199509	Final RI Report for OU 1, Schofield Barracks, Hawaii, 17 April 1995
SCHBR-88	ENGINE REBUILD AREA (FFA 54C)	199509	Final RI Report for OU 1, Schofield Barracks, Hawaii, 17 April 1995
SCHBR-89	PITS (1942) (FFA 57)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-90	POSSIBLE WASTE DISPOSAL (1984) (FFA 58)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-91	TWO TRENCHES (1942) (FFA 59)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-92	TREATMENT PLANT (1953) (FFA 60)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-93	TRENCH & PIT W/LIQUID(1953-77) (FFA 61)	199701	Final Remedial Investigation Report, Operable Unit 3, Schofield Barracks, Island of Oahu, Hawaii, 1996 - No COCs found on-site
SCHBR-94	FOUR TRENCHES (1962) (FFA 62)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-95	THREE PITS W/LIGHT MATERIAL (FFA 63)	199610	Final RI Report for OU 3, Schofield Barracks, Hawaii, March 1996
SCHBR-96	PITS (1962) (FFA 64A)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-97	STAINS/OPEN STORAGE AREA (1942)(FFA 65)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-98	POSSIBLE REFUSE (1942) (FFA 66)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994
SCHBR-99	TREATMENT PLANT (1953) (FFA 67)	199403	Preliminary Assessment of Operable Unit 3 Sites, Schofield Army Barracks, Island of Oahu, Hawaii, 1994

IRP Schedule

Date of IRP Inception: 198306

Past Phase Completion Milestones

1992

PA (SCHBR-19 - OU2 Groundwater Contamination)
IRA (SCHBR-42 - FORMER STORAGE TANKS, 5 USTS (FFA 30))
SI (SCHBR-19 - OU2 Groundwater Contamination)

1993

PA (SCHBR-01 - FIRING RNG BURNING AREAS (FFA 50), SCHBR-02 - DFE ENTOMOLOGY - BLDG 368 (FFA 38), SCHBR-03 - DFE LAND MGMT BRANCH BLD 379 (FFA 39), SCHBR-04 - BEHIND BLDG 379 WASHRACK (FFA 39), SCHBR-05 - DPCA GOLF COURSE BLDG 6019 (FFA 37), SCHBR-06 - ADJ TO BLDG 6019 CONCERT APRON (FFA 37), SCHBR-07 - AREA R WST STG AREA (FFA 20), SCHBR-09 - BLDG T 2140 SPRAY PNT BOOTH (FFA 45), SCHBR-12 - FORMER LANDFILL (FFA 7), SCHBR-13 - STP NO BYPASS PROVISIONS (FFA 56), SCHBR-15 - CENTRAL RANGES (FFA 15), SCHBR-16 - EAST RANGE DISPOSAL SITE (FFA 51), SCHBR-17 - FORMER LAUNDRY (FFA 52), SCHBR-18 - ACID PIT (FFA 46), SCHBR-20 - DRUM STORAGE AREA (FFA 1), SCHBR-21 - VEHICLE SCRAP YARD (FFA 2), SCHBR-26 - TASC (BLDG 2061)(FFA 9), SCHBR-27 - BLDG T-1125, TARGET SHOP (FFA 10), SCHBR-28 - BLDG T-2276 (FFA 12), SCHBR-29 - BLDG 2275 TARGET REP/CARPENT SHOP(FFA 16, SCHBR-30 - MAINTENANCE AREA (BLDG T-1029) (FFA 17), SCHBR-31 - DISTRIBUTION WH (BLDG T-1052) (FFA 18), SCHBR-32 - BATTERY SHOP(BLDG T-1081) (FFA 19), SCHBR-33 - PEST CONTROL SHOP (BLDG 370/380)(FFA 21), SCHBR-34 - PEST CONTROL SHOP (FFA 22), SCHBR-35 - ARTS & CRAFTS (BLDG 585) (FFA 23), SCHBR-36 - AUTOCRAFT CAR WASH (BLDG 910) (FFA 24), SCHBR-37 - AUTOCRAFT SHOP (BLDG 910) (FFA 25), SCHBR-38 - CAR CARE (BLDG 80) (FFA 26), SCHBR-39 - VETERINARY CLINIC (FFA 27), SCHBR-40 - HEALTH CLINIC (FFA 28), SCHBR-41 - INCINERATOR (BLDG 673) (FFA 29), SCHBR-42 - FORMER STORAGE TANKS, 5 USTS (FFA 30), SCHBR-43 - DENTAL CLINIC (FFA 31), SCHBR-44 - 24-HOUR PHOTO SERVICE (FFA 32), SCHBR-45 - MAINT AREAS (BLDG T-2054,T-2060)(FFA 33), SCHBR-46 - WEAPONS MAINTENANCE (BLDG 2131)(FFA 34), SCHBR-47 - OPTICAL REPAIR (BLDG 1054) (FFA 35), SCHBR-48 - GAS CHAMBER (BLDG 2253C) (FFA 36), SCHBR-49 - TRANSFORMERS (9) (FFA 40), SCHBR-50 - TRANSFORMER LEAK AREA (FFA 41), SCHBR-51 - MAINTENANCE AREA (BLDG 387) (FFA 42), SCHBR-52 - AMMO STORAGE BUNKERS (27) (FFA 43), SCHBR-53 - CHEM IMPREG PLANT (BLDG 2308) (FFA 44), SCHBR-54 - PHOTO OPERATIONS (BLDG 2065) (FFA 47), SCHBR-55 - BLDG 370B INDUSTRIAL OPS (FFA 48), SCHBR-56 - AIRCRAFT FUSELAGE AREA (FFA 54A), SCHBR-57 - TUNNELS (FFA 55), SCHBR-58 - LANDFILL 3 VARIOUS LOCATIONS (FFA 49), SCHBR-60 - MAINTENANCE AREA A (FFA 3), SCHBR-61 - MAINTENANCE AREA B (FFA 3/11), SCHBR-62 - MAINTENANCE AREA C (FFA 3/11), SCHBR-63 - MAINTENANCE AREA D (FFA 3/11), SCHBR-64 - MAINTENANCE AREA E (FFA 3/6), SCHBR-65 - MAINTENANCE AREA F (FFA 3/11), SCHBR-66 - MAINTENANCE AREA G (FFA 3/11), SCHBR-67 - MAINTENANCE AREA H (FFA 3), SCHBR-68 - MAINTENANCE AREA I (FFA 3/11), SCHBR-69 - MAINTENANCE AREA J (FFA 3/6), SCHBR-70 - MAINTENANCE AREA K (FFA 3/11), SCHBR-71 - MAINTENANCE AREA L (FFA 3/11), SCHBR-72 - MAINTENANCE AREA M (FFA 3/11), SCHBR-73 - MAINTENANCE AREA N (FFA 3/11), SCHBR-74 - MAINTENANCE AREA O (FFA 3/6/11), SCHBR-75 - MAINTENANCE AREA P (FFA 3/11), SCHBR-76 - MAINTENANCE AREA Q (FFA 3/11), SCHBR-77 - MAINTENANCE AREA R (FFA 3/11), SCHBR-78 - MAINTENANCE AREA S (FFA 3/11), SCHBR-79 - MAINTENANCE AREA T (FFA 3/11), SCHBR-80 - MAINTENANCE AREA U (FFA 3/11), SCHBR-81 - MAINTENANCE AREA V (FFA 3), SCHBR-82 - MAINTENANCE AREA W (FFA 3/6), SCHBR-83 - MAINTENANCE AREA X (FFA 3/11), SCHBR-84 - MCCARTHY FLATS RANGES (FFA 13), SCHBR-85 - KOLEKOLE FIRING RANGES (FFA 14), SCHBR-86 - TRANSFORMER STORAGE AREA (FFA 40), SCHBR-87 - AIRCRAFT STORAGE BUNKERS (FFA 54B), SCHBR-88 - ENGINE REBUILD AREA (FFA 54C))
SI (SCHBR-01 - FIRING RNG BURNING AREAS (FFA 50), SCHBR-07 - AREA R WST STG AREA (FFA 20), SCHBR-12 - FORMER LANDFILL (FFA 7), SCHBR-16 - EAST RANGE DISPOSAL SITE (FFA 51), SCHBR-17 - FORMER LAUNDRY (FFA 52), SCHBR-30 - MAINTENANCE AREA (BLDG T-1029) (FFA 17), SCHBR-31 - DISTRIBUTION WH (BLDG T-1052) (FFA 18), SCHBR-37 - AUTOCRAFT SHOP (BLDG 910) (FFA 25), SCHBR-51 - MAINTENANCE AREA (BLDG 387) (FFA 42), SCHBR-56 - AIRCRAFT FUSELAGE AREA (FFA 54A), SCHBR-87 - AIRCRAFT STORAGE BUNKERS (FFA 54B), SCHBR-88 - ENGINE REBUILD AREA (FFA 54C))

1994

RI/FS (SCHBR-37 - AUTOCRAFT SHOP (BLDG 910) (FFA 25))

IRP Schedule

ISC	(SCHBR-126 - QUAD B USTS, SCHBR-127 - QUAD E USTS, SCHBR-128 - QUAD F USTS, SCHBR-129 - BLDG 665 USTS, SCHBR-130 - HEALTH CLINIC USTS, SCHBR-131 - QUAD I UST, SCHBR-132 - QUAD J UST)
PA	(SCHBR-100 - DARK STAINED AREAS (1962) (FFA 68), SCHBR-101 - OPEN STORAGE AREAS (1942-1953) (FFA 69), SCHBR-102 - OPEN STORAGE AREA (1942-1968) (FFA 70), SCHBR-103 - OPEN STORAGE AREA (1955) (FFA 71), SCHBR-104 - OPEN STORAGE AREA (1942) (FFA 72A), SCHBR-105 - MOTOR POOL (1942) (FFA 73), SCHBR-106 - OPEN STORAGE AREA (1977) (FAA 74), SCHBR-107 - PROBABLE CONTAINERS/OS (1950-51)(FFA 75), SCHBR-108 - LIGHT OBJECT/OPEN BURNING(1942) (FFA 76), SCHBR-109 - LIGHT & MED TONE OBJECTS (1942) (FFA 77), SCHBR-110 - OPEN STORAGE AREAS (1942) (FFA 78), SCHBR-111 - LIGHT TONE OBJECTS (1942) (FFA 79), SCHBR-112 - POSSIBLE TRENCH (1953) (FFA 80), SCHBR-113 - INDUSTRIAL OPS/OPEN STOR (1942)(FFA 81B), SCHBR-114 - TRENCH (FFA 82), SCHBR-115 - OPEN STORAGE/MOTOR POOL (FFA 83), SCHBR-116 - OPEN STORAGE/MOTOR POOL (FFA 84), SCHBR-117 - OPEN STORAGE/MOTOR POOL (FFA 85), SCHBR-118 - OPEN STORAGE (1942-55) (FFA 86), SCHBR-119 - OPEN STORAGE/MOTOR POOL(1950-59)(FFA 87), SCHBR-120 - MOTOR POOL (1955-78) (FFA 88), SCHBR-121 - OPEN STORAGE/POSS PITS(1951-59)(FFA 89), SCHBR-122 - MOTOR POOL/DARK STAINS (1959-70)(FFA 90), SCHBR-123 - REFUSE (1942) (FFA 91), SCHBR-124 - OPEN STORAGE (1950) (FFA 92), SCHBR-125 - OPEN FIRE (1951)/(1955) (FFA 93), SCHBR-133 - TWO PITS (1962) (FFA 64B), SCHBR-134 - MAINTENANCE AREA, BLDG 368 (FFA 72B), SCHBR-89 - PITS (1942) (FFA 57), SCHBR-90 - POSSIBLE WASTE DISPOSAL (1984) (FFA 58), SCHBR-91 - TWO TRENCHES (1942) (FFA 59), SCHBR-92 - TREATMENT PLANT (1953) (FFA 60), SCHBR-93 - TRENCH & PIT W/LIQUID(1953-77) (FFA 61), SCHBR-94 - FOUR TRENCHES (1962) (FFA 62), SCHBR-95 - THREE PITS W/LIGHT MATERIAL (FFA 63), SCHBR-96 - PITS (1962) (FFA 64A), SCHBR-97 - STAINS/OPEN STORAGE AREA (1942)(FFA 65), SCHBR-98 - POSSIBLE REFUSE (1942) (FFA 66), SCHBR-99 - TREATMENT PLANT (1953) (FFA 67))
IMP(C)	(SCHBR-127 - QUAD E USTS, SCHBR-128 - QUAD F USTS, SCHBR-129 - BLDG 665 USTS, SCHBR-130 - HEALTH CLINIC USTS, SCHBR-131 - QUAD I UST, SCHBR-132 - QUAD J UST)
IRA	(SCHBR-126 - QUAD B USTS)
1995	
RI/FS	(SCHBR-01 - FIRING RNG BURNING AREAS (FFA 50), SCHBR-07 - AREA R WST STG AREA (FFA 20), SCHBR-16 - EAST RANGE DISPOSAL SITE (FFA 51), SCHBR-30 - MAINTENANCE AREA (BLDG T-1029) (FFA 17), SCHBR-31 - DISTRIBUTION WH (BLDG T-1052) (FFA 18), SCHBR-51 - MAINTENANCE AREA (BLDG 387) (FFA 42), SCHBR-56 - AIRCRAFT FUSELAGE AREA (FFA 54A), SCHBR-87 - AIRCRAFT STORAGE BUNKERS (FFA 54B), SCHBR-88 - ENGINE REBUILD AREA (FFA 54C))
1996	
RI/FS	(SCHBR-105 - MOTOR POOL (1942) (FFA 73), SCHBR-112 - POSSIBLE TRENCH (1953) (FFA 80), SCHBR-113 - INDUSTRIAL OPS/OPEN STOR (1942)(FFA 81B), SCHBR-115 - OPEN STORAGE/MOTOR POOL (FFA 83), SCHBR-12 - FORMER LANDFILL (FFA 7), SCHBR-120 - MOTOR POOL (1955-78) (FFA 88), SCHBR-122 - MOTOR POOL/DARK STAINS (1959-70)(FFA 90), SCHBR-125 - OPEN FIRE (1951)/(1955) (FFA 93), SCHBR-133 - TWO PITS (1962) (FFA 64B), SCHBR-134 - MAINTENANCE AREA, BLDG 368 (FFA 72B), SCHBR-18 - ACID PIT (FFA 46), SCHBR-19 - OU2 Groundwater Contamination , SCHBR-33 - PEST CONTROL SHOP (BLDG 370/380)(FFA 21), SCHBR-38 - CAR CARE (BLDG 80) (FFA 26), SCHBR-47 - OPTICAL REPAIR (BLDG 1054) (FFA 35), SCHBR-61 - MAINTENANCE AREA B (FFA 3/11), SCHBR-62 - MAINTENANCE AREA C (FFA 3/11), SCHBR-63 - MAINTENANCE AREA D (FFA 3/11), SCHBR-64 - MAINTENANCE AREA E (FFA 3/6), SCHBR-67 - MAINTENANCE AREA H (FFA 3), SCHBR-68 - MAINTENANCE AREA I (FFA 3/11), SCHBR-69 - MAINTENANCE AREA J (FFA 3/6), SCHBR-70 - MAINTENANCE AREA K (FFA 3/11), SCHBR-71 - MAINTENANCE AREA L (FFA 3/11), SCHBR-74 - MAINTENANCE AREA O (FFA 3/6/11), SCHBR-75 - MAINTENANCE AREA P (FFA 3/11), SCHBR-77 - MAINTENANCE AREA R (FFA 3/11), SCHBR-78 - MAINTENANCE AREA S (FFA 3/11), SCHBR-80 - MAINTENANCE AREA U (FFA 3/11), SCHBR-81 - MAINTENANCE AREA V (FFA 3), SCHBR-82 - MAINTENANCE AREA W (FFA 3/6), SCHBR-89 - PITS (1942) (FFA 57), SCHBR-91 - TWO TRENCHES (1942) (FFA 59), SCHBR-95 - THREE PITS W/LIGHT MATERIAL (FFA 63))
RA(C)	(SCHBR-42 - FORMER STORAGE TANKS, 5 USTS (FFA 30))

IRP Schedule

RD	(SCHBR-12 - FORMER LANDFILL (FFA 7))
1997	
RI/FS	(SCHBR-93 - TRENCH & PIT W/LIQUID(1953-77) (FFA 61))
1998	
RA(C)	(SCHBR-12 - FORMER LANDFILL (FFA 7))
1999	
RA(C)	(SCHBR-64 - MAINTENANCE AREA E (FFA 3/6))
2000	
IMP(C)	(SCHBR-126 - QUAD B USTS)
IRA	(SCHBR-106 - OPEN STORAGE AREA (1977) (FAA 74))
RA(C)	(SCHBR-134 - MAINTENANCE AREA, BLDG 368 (FFA 72B), SCHBR-80 - MAINTENANCE AREA U (FFA 3/11))
2002	
RI/FS	(SCHBR-106 - OPEN STORAGE AREA (1977) (FAA 74))

Projected Phase Completion Milestones

See attached schedule

Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates

Site ID	Site Name	ROD/DD Title	ROD/DD Date
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Final RA(C) Completion Date: 200007

Schedule for Next Five-Year Review: 2012

Estimated Completion Date of IRP at Installation (including LTM phase): 204209

SCHOFIELD BARRACKS IRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY13	FY14	FY15	FY16	FY17	FY18+
SCHBR-12	FORMER LANDFILL (FFA 7)	LTM						
SITE ID	SITE NAME	PHASE	FY13	FY14	FY15	FY16	FY17	FY18+
SCHBR-19	OU2 Groundwater Contamination	LTM						

SCHOFIELD BARRACKS
Army Defense Environmental Restoration Program
Military Munitions Response Program

MMRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 15/12

Installation Site Types with Future and/or Underway Phases

3 Small Arms Range
(SCHBR-004-R-01, SCHBR-012-R-01, SCHBR-013-R-01)

Most Widespread Contaminants of Concern

Metals, Munitions and explosives of concern (MEC), Munitions constituents (MC)

Media of Concern

Soil, Surface Water

Completed Remedial Actions (Interim Remedial Actions/ Final Remedial Actions (IRA/FRA))

Site ID	Site Name	Action	Remedy	FY
SCHBR-004-R-01	YONKERS RANGE	IRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	2009
SCHBR-014-R-01	Moyer Housing Project	IRA	UXO CLEARANCE	2009

Duration of MMRP

Date of MMRP Inception 200204

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201412/201412

Date of MMRP completion including Long Term Management (LTM): 201412

MMRP Contamination Assessment

Contamination Assessment Overview

The Department of Defense (DoD) has established the military munitions response program (MMRP) under the Defense Environmental Restoration Program (DERP) to address DoD sites with MEC, including unexploded ordnance (UXO), discarded military munitions (DMM), and MC. The US Army's inventory of closed, transferring, and transferred (CTT) military ranges and sites, identified sites eligible for action under MMRP. The MMRP eligible sites include other than operational ranges where UXO, DMM and MC is known or suspected and the release occurred prior to Sept. 30, 2002. Properties classified as operational ranges are not eligible and, therefore, are excluded from the MMRP program.

The MMRP began in the late-1990s with three phases of range inventories. Phase 1 consisted of installations completing an initial data call. The USAEC managed the implementation of Phases 2 and 3 of the MMRP inventory. The Phase 2 inventory dealt with active and inactive range considerations. Phase 3 involved the CTT range inventory conducted in 2002. The inventories included extensive mapping, data collection for upload to the Army Range Inventory Database, an assessment of explosives safety risk using the risk assessment code (RAC) methodology for CTT ranges or sites with UXO or DMM identified in the inventory, and the determination of which sites on the inventory potentially qualify for the MMRP.

In May 2003 a PA (final CTT inventory report) was completed for Schofield Barracks. Thirteen MMRP sites were identified at the installation. In May 2008 an SI was completed for all sites and additional investigation at five sites (SCHBR-004-R-01, SCHBR-008-R-01, SCHBR-010-R-01, SCHBR-012-R-01, and SCHBR-013-R-01) was recommended. During trenching for utilities at Moyer Housing (SCHBR-014-R-01), a demilitarized piece of ordnance was found. Thus, another MMRP site was created. For the duration of intrusive activities, a USACE Ordnance and Explosives (OE) Safety Specialist was on-site for construction support. The construction support was completed when intrusive activities were completed at the site. The site was closed after construction activities ceased.

The SI was completed in FY08. An IRA was completed at SCHBR-004-R-01 in FY09. The RI is underway at the five active sites. SCHBR-013-R-02 was created in FY12.

Cleanup Exit Strategy

In FY11, a PBA contract was awarded to achieve RC at SCHBR-004-R-01, SCHBR-010-R-01, and SCHBR-013-R-10 by December 2014. The PBA also funded site SCHBR-012-R-01 through RC by January 2013, and SCHBR-008-R-01 to RC by August 2012. Please see the site-specific cleanup/exit strategies for future actions anticipated at the sites.

MMRP Previous Studies

	Title	Author	Date
2002	Final CTT Inventory Report	TechLaw	OCT-2002
2006	Historical Records Review	TLI Solutions	NOV-2006
2008	Final SI Report	TLI Solutions	MAY-2008
2010	MMRP Anomaly Resolution, Tactical Vehicle Maintenance Facility, Schofield Barracks, Oahu, Hawaii	Explosive Ordnance Technologies, Inc.	JAN-2010

SCHOFIELD BARRACKS
Military Munitions Response Program
Site Descriptions

Site ID: SCHBR-004-R-01
Site Name: YONKERS RANGE

STATUS

Regulatory Driver: CERCLA
MRSPP Score: 07
Contaminants of Concern: Metals
Media of Concern: Soil

Phases	Start	End
PA.....	200204.....	200305
SI.....	200604.....	200806
RI/FS.....	200907.....	201212
RD.....	201103.....	201312
IRA.....	200803.....	200906
RA(C).....	201103.....	201412
RIP Date:	N/A	
RC Date:	201412	

SITE DESCRIPTION

Yonkers Range munitions response (MR) site is currently undeveloped and is located on the northern edge of the cantonment area, slightly south of Wilikina Drive and west of Stoneman Field and McNair Gate at Schofield Barracks, HI. Although the type of weapons used at the range is not specified in the documents collected, training at 1,000-inch ranges typically involves the use of small arms weapons including .22 caliber, .30 caliber, .50 caliber, and 7.62mm machine guns. Typically, the distance between the firing line and the targets is 100 yards at a 1,000-inch range. In summary, based on the depiction of the range in historic maps and aerial photographs, it is estimated that the range was used from the late-1930s through the 1960s for small arms training. Potential MEC associated with the site are small arms including .22 caliber, .30 caliber, .50 caliber, and 7.62mm machine guns and .30 caliber carbines.

An SI was conducted in 2008 and included a visual survey of approximately 3.3 line miles, and the collection of three surface soil samples and four sediment samples. No MEC was identified during the visual survey; however, munitions debris (MD) in the form of an expended M117 series slap flare was found along the path into the site. In addition, evidence of military training activities were present in the form of spools of concertina, and remains of a barbed wire fence. Analytical results from the soil sampling indicate that all concentrations for explosives and metals were non-detects or below the USEPA Region 9 preliminary remediation goals (PRGs), with the exception of two sample concentrations for lead that were detected (506 and 1,430 mg/kg) over the USEPA Region 9 PRG (400 mg/kg).

The focus of the remedial investigation was to determine the nature and extent of munitions constituents (MC) contamination associated with small arms munitions. Field activities included an instrument aided visual survey, investigative intrusive activities, geophysical mapping, and Increment sampling (IS) of the soil. Metals were detected in the soil, however did not exceed the action levels for the designated land use (commercial/industrial) therefore the RI recommended No Further Action (NFA) for MC. No MEC was found during the RI, therefore the site was recommended for NFA for MEC.

A PBA contract was funded in FY11 to achieve RC by December 2014. Long-term management (LTM) is not anticipated.

CLEANUP/EXIT STRATEGY

Future phases (or actions) include a feasibility study (FS), proposed plan (PP), decision document (DD), remedial design (RD), and remedial action (construction) [RA(C)]. No LTM is anticipated. RC will be achieved by December 2014.

Site ID: SCHBR-012-R-01
Site Name: Garden Gulch Pistol Ranges

STATUS

Regulatory Driver: CERCLA
MRSPP Score: 04
Contaminants of Concern: Metals, Munitions constituents (MC)
Media of Concern: Soil

Phases	Start	End
PA.....	200204.....	200305
SI.....	200604.....	200806
RI/FS.....	200907.....	201207
RD.....	201103.....	201210
RA(C).....	201103.....	201301
RIP Date: N/A		
RC Date: 201301		

SITE DESCRIPTION

Background Information: The Garden Gulch Ranges MR site is located south of Yonkers Range and west of Stoneman Field and McNair Gate. It includes five pistol ranges that are divided by a road, with one range northeast of the road and four to the west. The five pistol ranges are referred to as the Garden Gulch Pistol Ranges MR site for the remainder of the report due to their proximity to one another and their location within Garden Gulch. The pistol ranges vary in size with acreages of 0.17 acres, 0.09 acres, 0.07 acres, 0.09 acres and 0.25 acres. The ranges were first identified during a historical records review on a map dated Nov. 16, 1939.

Based on the range locations within the gulch, it is possible that pistol ranges were considered sub-caliber ranges that were in use as a result of training for World War II (WWII). Ammunition used during these training sessions in the 1940s may have included .22 caliber, .38 caliber, and .45 caliber rounds.

An SI was conducted in 2008 and included a visual survey of approximately 4.4 line miles, and the collection of six surface soil samples, and 10 sediment samples. No MEC or MD were identified during the visual survey, and analytical results indicate that no explosives were detected above USEPA Regional Screening Levels (RSL). Metals (Lead, Antimony, and Copper) however were found to be present in the soil at concentrations above RSL.

An RI/FS, PP, and DD have been completed at this site and was funded under a PBA contract to achieve RC by January 2013. The Draft RDWP is currently being reviewed and the RA will commence in Fall 2012.

No LTM is anticipated.

CLEANUP/EXIT STRATEGY

Future phases or actions include an FS, a PP, a DD, an RD, and RA(C). A RC is expected by January 2013 and LTM is not required.

Site ID: SCHBR-013-R-01

Site Name: Southern Pistol Ranges - East

STATUS

Regulatory Driver: CERCLA

MRSPP Score: 04

Contaminants of Concern: Metals, Munitions and explosives of concern (MEC), Munitions constituents (MC)

Media of Concern: Soil

Phases	Start	End
PA.....	200205.....	200305
SI.....	200604.....	200806
RI/FS.....	200907.....	201212
RD.....	201201.....	201312
RA(C).....	201201.....	201412

RIP Date: N/A

RC Date: 201412

SITE DESCRIPTION

The Southern Pistol Ranges MR area is located in the southeast portion of the installation near installation boundary. Two pistol ranges were identified south of the cantonment area near the Small Bore Range, on a site map dated November 16, 1939. It is estimated that these two ranges were constructed and used for training during the 1940s. The two pistol ranges are presented as one MR site and referred to as the Southern Pistol Ranges due to their close physical proximity and the fact that their operational history and munitions types are the same. The easternmost range is 0.23 acres and the westernmost range is 1.04 acres, for a site total of 1.3 acres.

An SI completed for the site in 2008 included a visual survey of approximately three line miles, and the collection of seven surface soil samples. No MEC were identified during the SI; however, munitions debris (MD) in the form of expended small arms and smoke grenades were found in the western part of both ranges. At both sites, the MD items appeared to have been thrown down the sides of the respective gulches from above.

Soil sample results indicate that trace amounts of nitroglycerin (0.93Jmg/kg and 0.47J mg/kg) and 2,4-dinitrotoluene (0.45J mg/kg 0.44J mg/kg) are present in quality control (QC) samples: SBSPR-SOO04 and SB-SPBR-SO005. Both of these samples were taken from the same location on the western side of the site. The detected amount of explosive constituents are well below the USEPA Region 9 Regional Screening Level (RSL) (34.7 mg/kg for nitroglycerin and 122 mg/kg for 2,4-dinitrotoluene). Explosives were not detected in the quality assurance (QA) sample taken from the same location. In addition sample SBSPR-SOO04 detected elevated levels of lead that exceed the RSL. The associated QA and QC samples had significantly lower detected concentrations of lead (320 mg/kg and 339 mg/kg). The SI recommended further investigation for MEC and MC at the site.

An RI was completed. The RI included instrument aided visual survey, investigative intrusive activities, geophysical mapping, and IS. The current land use is industrial/commercial. Results of the RI determined the need for future phases at the site. The west portion of the site was recommended for NFA for MEC and MC under a new MR site (SCHBR-013-R-02, and the east portion of the site requires further investigation for MEC).

A PBA contract was awarded in FY11 to achieve RC at the site by December 2014.

CLEANUP/EXIT STRATEGY

Future phases and actions include an FS, a PP, a DD, an RD, and RA(C).

An RC is expected by December 2014. No LTM is anticipated.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
SCHBR-001-R-01	A-100-1	200806	Not eligible for MMRP, Final SI concluded site was located on an operational range.
SCHBR-002-R-01	SMALL BORE RANGE	200806	Final SI recommended no further action for both MEC and MC.
SCHBR-003-R-01	WAIAWA TRAINING AREA	200701	Not eligible for MMRP, will be addressed under FUDS program.
SCHBR-005-R-01	YONKERS RANGE (TD)	200806	Not eligible for MMRP, Final SI concluded Yonkers Range did not have a transferred portion as originally suspected.
SCHBR-006-R-01	D-400-L	200701	Not eligible for MMRP, will be addressed under FUDS program.
SCHBR-007-R-01	CENTER COMBAT RANGE	200701	Not eligible for MMRP, will be addressed under FUDS program.
SCHBR-008-R-01	ER-7A	201209	
SCHBR-009-R-01	A-101-L-1	200806	Not eligible for MMRP, Final SI concluded site was located on an operational range.
SCHBR-010-R-01	A-100-L-2	201209	
SCHBR-011-R-01	A-100-L-2 (TD)	200806	Final SI recommended no further action for both MEC and MC.
SCHBR-013-R-02	Southern Pistol Ranges West	201209	
SCHBR-014-R-01	Moyer Housing Project	200906	MEC was found during construction event. UXO support was needed during construction activities, which are now complete. Site was closed since no additional actions were needed at the site.

MMRP Schedule

Date of MMRP Inception 200204

Past Phase Completion Milestones

2003

PA (SCHBR-001-R-01 - A-100-1, SCHBR-002-R-01 - SMALL BORE RANGE, SCHBR-003-R-01 - WAIAWA TRAINING AREA, SCHBR-004-R-01 - YONKERS RANGE, SCHBR-005-R-01 - YONKERS RANGE (TD), SCHBR-006-R-01 - D-400-L, SCHBR-007-R-01 - CENTER COMBAT RANGE, SCHBR-008-R-01 - ER-7A, SCHBR-009-R-01 - A-101-L-1, SCHBR-010-R-01 - A-100-L-2, SCHBR-011-R-01 - A-100-L-2 (TD), SCHBR-012-R-01 - Garden Gulch Pistol Ranges, SCHBR-013-R-01 - Southern Pistol Ranges - East, SCHBR-013-R-02 - Southern Pistol Ranges West)

2008

SI (SCHBR-001-R-01 - A-100-1, SCHBR-002-R-01 - SMALL BORE RANGE, SCHBR-004-R-01 - YONKERS RANGE, SCHBR-005-R-01 - YONKERS RANGE (TD), SCHBR-008-R-01 - ER-7A, SCHBR-009-R-01 - A-101-L-1, SCHBR-010-R-01 - A-100-L-2, SCHBR-011-R-01 - A-100-L-2 (TD), SCHBR-012-R-01 - Garden Gulch Pistol Ranges, SCHBR-013-R-01 - Southern Pistol Ranges - East, SCHBR-013-R-02 - Southern Pistol Ranges West)

2009

RI/FS (SCHBR-014-R-01 - Moyer Housing Project)

IRA (SCHBR-004-R-01 - YONKERS RANGE, SCHBR-014-R-01 - Moyer Housing Project)

PA (SCHBR-014-R-01 - Moyer Housing Project)

Projected Phase Completion Milestones

See attached schedule

Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates

To Be Determined

Final RA(C) Completion Date: 201412

Schedule for Next Five-Year Review: 2012

Estimated Completion Date of MMRP at Installation (including LTM phase): 201412

SCHOFIELD BARRACKS MMRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY13	FY14	FY15	FY16	FY17	FY18+
SCHBR-004-R-01	YONKERS RANGE	RI/FS						
		RD						
		RA(C)						
SITE ID	SITE NAME	PHASE	FY13	FY14	FY15	FY16	FY17	FY18+
SCHBR-012-R-01	Garden Gulch Pistol Ranges	RD						
		RA(C)						
SITE ID	SITE NAME	PHASE	FY13	FY14	FY15	FY16	FY17	FY18+
SCHBR-013-R-01	Southern Pistol Ranges - East	RI/FS						
		RD						
		RA(C)						

SCHOFIELD BARRACKS
Army Defense Environmental Restoration Program
Compliance Restoration

CR Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 15/14

Installation Site Types with Future and/or Underway Phases

1 Underground Storage Tank
(CCSB0004)

Most Widespread Contaminants of Concern

Petroleum, Oil and Lubricants (POL)

Media of Concern

Soil

Completed Remedial Actions (Interim Remedial Actions/ Final Remedial Actions (IRA/FRA))

Site ID	Site Name	Action	Remedy	FY
CCSB0018	8th TSC Motor Pool	IRA	WASTE REMOVAL - SOILS	2010
CCSB0029	Schofield Barracks Building 1180	IRA	REMOVAL	2010
CCSB0030	SB 3010 UST	IRA	WASTE REMOVAL - SOILS	2011
CCSB0031	Former Kalakaua Golf Course	IRA	OTHER	2011

Duration of CR

Date of CR Inception: 199209

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201202/201202

Date of CR completion including Long Term Management (LTM): 204209

CR Contamination Assessment

Contamination Assessment Overview

Environmental restoration activities include the IRP and MMRP. On Dec. 29, 2008, the Office of the Deputy Under Secretary of Defense for Installations and Environment (ODUSD I&E) issued an interim policy for DERP eligibility that rescinded the 1986 eligibility date for the IRP and the 2002 eligibility date for the MMRP. This made many sites previously addressed in the Army's Compliance-related Cleanup (CC) program eligible for the DERP. Sites that are now eligible for the MMRP have been migrated from Army Environmental Database - Compliance-related Cleanup (AEDB-CC) and given the naming convention of other MR sites. The newly eligible non-MR type sites are considered to be installation restoration (IR) sites; however, the newly eligible sites are being coded as compliance restoration (CR) in AEDB-R to distinguish them from the original IR sites and IR metrics.

Five CR sites were initially identified at Schofield Barracks:

- CCSB0004 (Schofield Barracks 80-5) still underway
- CCSB0017 (Schofield Barracks Quad D)
- CCSB0018 (8th TSC Motor Pool)
- CCSB0030 (SB 3010 UST), and
- CCSB0031 (Former Kalakaua Golf Course).

Cleanup Exit Strategy

An impermeable cap over the UST area (site CCSB0004) was installed and LTM is expected to maintain and inspect the condition of the impermeable cap for at least 30 years.

CR Previous Studies

Title

Author

Date

There are no Previous Studies

SCHOFIELD BARRACKS

Compliance Restoration

Site Descriptions

Site ID: CCSB0004

Site Name: Schofield Barracks 80-5

STATUS

Regulatory Driver: RCRA

Contaminants of Concern: Petroleum, Oil and Lubricants (POL)

Media of Concern: Soil

Phases	Start	End
ISC.....	199209.....	200303
INV.....	200305.....	201202
LTM.....	201202.....	204209

RIP Date: N/A

RC Date: 201202

SITE DESCRIPTION

Schofield Barracks 80-5 is located near the Foote Gate entrance to Schofield Barracks, within the Army and Air Force Exchange Services (AAFES) Car Care Center. The Car Care Center is located on the south side of Foote Avenue near the intersection of Foote Avenue and Kunia Road. The Car Care Center is operated by AAFES and provides petroleum fuels and automotive services to military personnel and their dependents. UST SB 80-5 was one of six 10,000-gallon, double walled fiberglass-reinforced plastic Underground Storage Tanks (USTs) located in a tank farm area at the site. Currently, five 10,000-gallon, double walled fiberglass-reinforced plastic USTs are in service (four gasoline tanks and one diesel tank) and are located in the tank farm area.

Weston Solutions, Inc. (Weston) is contracted under a PBA contract to characterize and delineate the subsurface petroleum impacted soil at the site, and achieve site closure. A Draft Characterization Report was submitted by Weston in January 2011 and recommended an impermeable cap is installed over the UST area to mitigate the migration of Contaminants of Potential Concern (COPC) in the subsurface. The corrective measures study and implementation (removal action) have been fully funded under the PBA contract. The RIP will be achieved by June 2012.

LTM will be required from FY13 to FY42.

CLEANUP/EXIT STRATEGY

An impermeable cap over the UST area was installed and was funded under the existing PBA contract. LTM is expected to maintain and inspect the condition of the impermeable cap for at least 30 years.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
CCSB0008	Schofield Barracks 985	200905	
CCSB0009	Schofield Barracks Bldg 580	201003	
CCSB0010	Schofield Barracks Bldg 2515	201003	
CCSB0011	Schofield Barracks Bldg 1080	200909	
CCSB0012	Schofield Barracks Quad B	201003	
CCSB0015	Schofield Barracks 955, Physical Ce	201003	
CCSB0017	Schofield Barracks Quad D	201106	
CCSB0018	8th TSC Motor Pool	201010	
CCSB0026	Kaena Family Housing	201003	
CCSB0027	Schofield Barracks Quad I SB747	201003	
CCSB0028	Schofield Barracks WTU OPS SB 697	201003	
CCSB0029	Schofield Barracks Building 1180	201003	
CCSB0030	SB 3010 UST	201109	
CCSB0031	Former Kalakaua Golf Course	201109	

CR Schedule

Date of CR Inception: 199209

Past Phase Completion Milestones

1996

ISC (CCSB0011 - Schofield Barracks Bldg 1080)

1997

ISC (CCSB0012 - Schofield Barracks Quad B)

1998

ISC (CCSB0015 - Schofield Barracks 955, Physical Ce)

2000

ISC (CCSB0008 - Schofield Barracks 985)

2002

ISC (CCSB0009 - Schofield Barracks Bldg 580, CCSB0010 - Schofield Barracks Bldg 2515, CCSB0028 - Schofield Barracks WTU OPS SB 697)

2003

ISC (CCSB0004 - Schofield Barracks 80-5, CCSB0017 - Schofield Barracks Quad D)

2007

PA (CCSB0031 - Former Kalakaua Golf Course)

SI (CCSB0031 - Former Kalakaua Golf Course)

2008

PA (CCSB0018 - 8th TSC Motor Pool)

ISC (CCSB0026 - Kaena Family Housing, CCSB0027 - Schofield Barracks Quad I SB747)

2009

INV (CCSB0008 - Schofield Barracks 985, CCSB0011 - Schofield Barracks Bldg 1080)

2010

IRA (CCSB0018 - 8th TSC Motor Pool, CCSB0029 - Schofield Barracks Building 1180)

INV (CCSB0009 - Schofield Barracks Bldg 580, CCSB0010 - Schofield Barracks Bldg 2515, CCSB0012 - Schofield Barracks Quad B, CCSB0015 - Schofield Barracks 955, Physical Ce, CCSB0026 - Kaena Family Housing, CCSB0027 - Schofield Barracks Quad I SB747, CCSB0028 - Schofield Barracks WTU OPS SB 697, CCSB0029 - Schofield Barracks Building 1180)

ISC (CCSB0029 - Schofield Barracks Building 1180, CCSB0030 - SB 3010 UST)

2011

RI/FS (CCSB0031 - Former Kalakaua Golf Course)

IRA (CCSB0030 - SB 3010 UST, CCSB0031 - Former Kalakaua Golf Course)

SI (CCSB0018 - 8th TSC Motor Pool)

INV (CCSB0017 - Schofield Barracks Quad D, CCSB0030 - SB 3010 UST)

Projected Phase Completion Milestones

See attached schedule

Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates

To Be Determined

Final RA(C) Completion Date:

Schedule for Next Five-Year Review: 2012

Estimated Completion Date of CR at Installation (including LTM phase): 204209

SCHOFIELD BARRACKS CR Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY13	FY14	FY15	FY16	FY17	FY18+
CCSB0004	Schofield Barracks 80-5	LTM						

Community Involvement

Technical Review Committee (TRC): 199312

Community Involvement Plan (Date Published): TBD

Restoration Advisory Board (RAB): No

Reason Not Established: Installation is in the process of determining interest in establishing a RAB.

Additional Community Involvement Information

A community involvement plan has not been developed. USAG-HI solicited for a RAB in February 2010 and again in July 2011. The request for interest was published in the Honolulu Star Advertiser from July 24 through 26, 2011.

Administrative Record is located at

Department of Public Works
948 Santos Dumont Ave, Bldg. 105
Wheeler AAF, Schofield Barracks, HI 96857-5013

Information Repository is located at

Mililani Library
95-450 Makaimoimo Street
Mililani, HI 96789

Wahiawa Public Library
820 California Avenue
Wahiawa, HI 96786

Current Technical Assistance for Public Participation (TAPP):N/A

TAPP Title: N/A

Potential TAPP: N/A

