



**Base Realignment and Closure  
Program Management Office West  
1455 Frazee Road, Suite 900  
San Diego, California 92108-4310**

## **ACTION MEMORANDUM**

**June 13, 2008**

**CERCLA TIME-CRITICAL REMOVAL ACTION  
INSTALLATION RESTORATION SITES 5 AND 10  
BUILDINGS 5 AND 400  
STORM DRAIN AND SEWER LINE REMOVAL  
ALAMEDA POINT, ALAMEDA, CALIFORNIA**

# **ACTION MEMORANDUM**

## **CERCLA TIME-CRITICAL REMOVAL ACTION INSTALLATION RESTORATION SITES 5 AND 10 BUILDINGS 5 AND 400 STORM DRAIN AND SEWER LINE REMOVAL ALAMEDA POINT, ALAMEDA, CALIFORNIA**

<b>Site Status:</b>	<b>National Priorities List</b>
<b>Category of Removal:</b>	<b>Time-Critical Removal Action</b>
<b>CERCLIS ID:</b>	<b>CA 2170023236</b>
<b>Site ID:</b>	<b>Installation Restoration Sites 5 and 10</b>
<b>Date:</b>	<b>June 13, 2008</b>

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## ABBREVIATIONS AND ACRONYMS

ALARA	as low as is reasonably achievable
AM	Action Memorandum
ARAR	applicable or relevant and appropriate requirement
Basin Plan	Comprehensive Water Quality Control Plan for the San Francisco Bay Basin
Bay	San Francisco Bay
BEI	Bechtel Environmental, Inc.
BMP	best management practice
BRAC	Base Realignment and Closure
Cal. Pub. Res. Code	California Public Resources Code
CCR	California Code of Regulations
CDPH	California of Public Health
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFGC	California Fish and Game Code
CFR	Code of Federal Regulations
ch.	chapter
CWA	Clean Water Act
DoD	Department of Defense
DON	Department of the Navy
DTSC	Department of Toxic Substances Control
EBMUD	East Bay Municipal Utilities District
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act
FSS	Final Status Survey
GBq	gigabecquerel
IR	Installation Restoration
mg/L	milligrams per liter
MOU	memorandum of understanding
mrem/yr	millirems per year
msl	mean sea level
MUN	municipal and domestic water supply
NAS	Naval Air Station

## ABBREVIATIONS AND ACRONYMS

(Continued)

NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NPDES	National Pollutant Discharge Elimination System
NRC	Nuclear Regulatory Commission
NWT	New World Technologies, Inc.
OSWER	Office of Solid Waste and Emergency Response
OU	Operable Unit
pt.	part
pCi/g	picocuries per gram
pCi/L	picocuries per liter
POTW	publicly owned treatment works
PRC	PRC Environmental Management, Inc.
PRP	potentially responsible party
<sup>226</sup> Ra	radium-226
RAB	Restoration Advisory Board
RAO	removal action objective
RCRA	Resource Conservation and Recovery Act
RWQCB	Regional Water Quality Control Board
SWMP	Stormwater Management Plan
SWRCB	State Water Resources Control Board
TCLP	Toxicity Characteristic Leaching Procedure
TCRA	time-critical removal action
TDS	total dissolved solids
TtEC	Tetra Tech EC, Inc.
TEDE	total effective dose equivalent
TtEMI	Tetra Tech EM, Inc.
UMTRCA	Uranium Mill Tailings Radiation Control Act
U.S.C.	United States Code
USFWS	United States Fish and Wildlife Service
Water Board	San Francisco Bay Water Board
WL	Working Level
WQO	Water Quality Objective

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## **1.0 PURPOSE**

The purpose of this Action Memorandum (AM) is to document, for the Administrative Record, the U.S. Department of the Navy's (DON's) decision to undertake a time-critical removal action (TCRA) to remove radiologically impacted storm drain and sewer systems associated with Building 5, located in Installation Restoration (IR) Site 5, and Building 400, located in IR Site 10, within Operable Unit (OU)-2C at Alameda Point located in Alameda, California. Radiological contamination, specifically radium-226 (<sup>226</sup>Ra), has been identified in the storm drains and sewer lines. These storm drain lines discharge into the northwest corner of IR Site 17, Seaplane Lagoon.

The Department of Defense (DoD) has the authority to undertake Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) response actions, including removal actions, under Title 42 of the United States Code (U.S.C.) Section 9604, 10 U.S.C. Section 2705, and Federal Executive Order 12580. This removal action constitutes a "time critical removal action" as defined in U.S. Environmental Protection Agency (EPA) Office of Solid Waste and Emergency Response (OSWER) Directive 9318.0-05, and is being implemented as provided in Title 40 of the Code of Federal Regulations (CFR) Section 330.415(n)(2). The removal action performed under this AM is deemed consistent with the factors set forth within the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 CFR Part 300.

The removal action described in this AM will substantially eliminate identified pathways of exposure to radioactive contamination for surrounding populations and nearby ecosystems such as San Francisco Bay (Bay). Removal actions performed per this AM are anticipated to be complete cleanups to, or below, the cleanup goals specified in this document. No nationally significant or precedent-setting issues exist for this site.

The removal action described in this AM is to remove the existing storm drain and sewer lines and any associated soils impacted by  $^{226}\text{Ra}$  as a result of past radium paint shop operations. A TCRA Work Plan, *Project Work Plan for Installation Restoration Sites 5 and 10 (Buildings 5 and 400) Storm Drain and Sewer Line Removal Time-Critical Action* (Tetra Tech, EC [TtEC], 2007), was developed to implement the removal action specified within this AM. A Final Status Survey (FSS) document will be prepared to obtain free release of each survey unit. New storm drainages will replace the current active lines. Radiologically impacted storm and sewer line debris and soils will be removed and disposed of off site.

The removal action objective (RAO) for this AM is to protect public health and welfare and the environment by physically removing and disposing of  $^{226}\text{Ra}$ -impacted stormwater and sewer systems and associated soils such that a total effective dose equivalent (TEDE) of < 15 millirem per year (mrem/yr) is achieved.

## 2.0 SITE CONDITIONS AND BACKGROUND

Several investigations have been performed to assess the physical and environmental conditions at IR Sites 5 and 10. Background information includes the site-specific features, history of land usage, site geology and hydrogeology, and previous investigations describing the chemical and radiological characteristics of the site.

### 2.1 SITE DESCRIPTION

The area encompassed by Alameda Point was historically a combination of submerged lands, tideland, and dry land. Alameda Point occupies the flattest portion of Alameda Island, with elevations ranging from sea level to 30 feet above mean sea level (msl). Most of Alameda Point was gradually filled using hydraulically placed dredge spoils from the surrounding San Francisco Bay, Seaplane Lagoon, and Oakland Channel (Bechtel Environmental, Inc. [BEI], 2006a).

The 1,734 acres formerly occupied by Naval Air Station (NAS) Alameda was acquired by the DON in 1936. NAS Alameda was commissioned in 1940, and additional land was acquired adjacent to the air station subsequent to the entry of the United States into World War II in 1941. Following the conclusion of the war, NAS Alameda returned to its original primary mission of providing facilities and support for fleet aviation services. During its history, NAS Alameda housed approximately 60 military tenant commands for a combined military/civilian work force of over 18,000 personnel (BEI, 2006a). NAS Alameda was closed in 1997, at which time the DON began the process of property transfer to the City and County of Alameda.

OU-2C, comprising three IR Sites (5, 10, and 12), is located in the central portion of Alameda Point, north of Seaplane Lagoon and in the former industrial core of NAS Alameda. Buildings 5 and 400 are located within IR Sites 5 and 10, respectively.

#### 2.1.1 Removal Site Evaluation

Within Buildings 5 and 400, radioluminescent paint containing  $^{226}\text{Ra}$  was used during the refurbishing of aircraft instrument dials. Radiological surveys within Buildings 5 and 400 detected radioactive contamination on floors, walls, and drain piping (BEI, 2006a). Leaks from the drain piping inside Building 5 contaminated several indoor areas, including the first-floor spray booths and rooms on the second floor. A radiological characterization survey of the storm drain lines was conducted in 1997. The radiological survey included exposed and subterranean interior drain lines of Building 5 and storm drain lines from Buildings 5 and 400 and other locations that empty into Seaplane Lagoon (New World Technologies, Inc [NWT], 1998).

In 1997 and 1998, sections of storm drain and sewer systems associated with IR Sites 5 and 10 were removed (NWT, 1998 and 2000). In the Final Report, it was noted that contaminated soil

with concentrations of  $^{226}\text{Ra}$  above 5 picocuries per gram (pCi/g) was found below the removed piping and removed (NWT, 2000). This is an indication that cracks and/or fissures were present in the removed storm drain and sewer system piping.

Although removal actions were completed on sections of storm drain and sewer systems associated with IR Sites 5 and 10 in 1997 (NWT, 1998) and 1998 (NWT, 2000), additional investigations and the shift to a more stringent release criteria for  $^{226}\text{Ra}$  have made further removal actions necessary. In 1997, the release criteria for  $^{226}\text{Ra}$  was 5 pCi/g; currently, the release criteria for  $^{226}\text{Ra}$  is 1 pCi/g above background based on agreements with EPA Region 9 and the DON as documented in the AM for Hunters Point, *Revised Final Basewide Radiological Removal Action, Action Memorandum* (DON, 2006). Radium is expected to be present in sections of the stormwater and sewer system and associated soils in concentrations greater than the current release criteria of 1 pCi/g of  $^{226}\text{Ra}$  above background. Active storm drain lines impacted by  $^{226}\text{Ra}$  between the building sources and Seaplane Lagoon will be replaced.

### **2.1.2 Physical Location**

Alameda Point, formerly known as NAS Alameda, is located in the City of Alameda, California, adjacent to the City of Oakland and San Francisco Bay (Figure 2-1).

### **2.1.3 Site Characteristics**

#### **2.1.3.1 IR Site 5**

IR Site 5 is located in the central portion of Alameda Point and contains Building 5, known as the Aircraft Rework Facility. IR Site 5 encompasses approximately 47 acres, 27 acres of which are open space (BEI, 2004). Building 5 was erected in two stages: the southern portion (Building 5) was erected in the 1940s, followed some years later by the northern portion (Building 5A). For this AM, both portions are identified as Building 5. The building was closed in 1993 and is currently vacant; however, its past uses included cleaning, reworking, and manufacturing of metal parts; plating, painting, and tool maintenance operations; and specialty operations, such as stripping and re-application of radioluminescent paint to aircraft dial faces. The building contained a main paint shop comprising two paint bays and several smaller paint spray booths. In addition, there was a plating shop with operations involving degreasing; caustic and acid etching; metal stripping and cleaning; and chrome, nickel, silver, cadmium, and copper plating (BEI, 2006a).

Between 1940 through 1972, the wastewater from Building 5 was discharged directly into the nearest surface waters through the storm sewer system. From the beginning of that time period through the early 1960s, radioluminescent painting operations on the second floor of Building 5 discharged paint containing  $\text{Ra}^{226}$  into the storm sewer system leading from Building 5 into Seaplane Lagoon. From 1972 through 1991, the wastewater from the plating shops was split into

two waste streams: one for alkaline tanks and one for cyanide tanks. The wastewater streams were kept separate until the cyanide stream was treated in a cyanide destruction unit. The two waste streams were then rerouted together to a pretreatment plant located near the southwestern corner of the building. Building 5 also housed a hazardous waste storage area that was closed in 1988. Drummed wastes formerly stored in the hazardous waste storage area included spent solvent, waste paints, waste oil, hydraulic fluid, and lubricating oils. This area was located outside of Building 5 in the southeastern corner of the site. Building 5 also contained numerous generator accumulation points as well as other types of Resource Conservation and Recovery Act (RCRA) solid waste management units (BEI, 2006a).

Lead-acid and nickel-cadmium batteries were serviced in the battery storage area in the northeastern portion of Building 5. The battery fluids were discharged into a sink in the storage area, and the sink discharged into the base industrial sewer system. Base personnel have indicated that the corrosive fluids deteriorated the piping in the sink and drain. Battery fluids ultimately discharged to the Seaplane Lagoon via the storm drain system (BEI, 2006a).

Building 5 was investigated in 1991 under the Phase 2B and 3 investigation (PRC Environmental Management, Inc., and James M. Montgomery, 1992). Since that time, there have been numerous additional investigations. In addition to these investigations, past radiological surveys detected radioactive contamination in drain piping at Building 5 that discharged into the storm sewer (PRC Environmental Management, Inc. [PRC], 1997; Tetra Tech EM, Inc. [TtEMI], 2002). Leaks from the storm drain piping inside the building contaminated several indoor areas, including the first-floor spray booths and rooms on the second floor (BEI, 2006a). In the fall of 1998, a storm drain and sewer line removal was initiated at IR Site 5.

Storm drains and sewer lines are currently located along all sides of Building 5, vary in diameter from 18 to 24 inches adjacent to the northern side of Building 5, and discharge into the Oakland Inner Harbor. A 21-inch storm sewer is located on the western side of Building 5, which flows south and discharges into Seaplane Lagoon. Additionally, an 18-inch storm sewer is located on the southern side of Building 5, which also discharges into Seaplane Lagoon (BEI, 2006a).

### **2.1.3.2 IR Site 10**

IR Site 10 is situated south of West Tower Avenue (previously named Avenue F), between Buildings 11 and 12; is approximately 600 feet north of Seaplane Lagoon; and is bordered on the north by IR Site 5 (Figure 2-2). IR Site 10 is approximately 3.9 acres, 0.86 of which is open space (BEI, 2004). Building 400 covers approximately 85 percent of the site, with approximately 126,000 square feet of floor space, and the remaining 15 percent is paved open space, roads, and parking lots.

IR Site 10 contains Building 400, known as the Missile Rework Facility, along with the area that supports, surrounds, or is part of the activities that occur in the building. Around 1930, fill was

used to create the land where IR Site 10 is located. Prior to 1930, IR Site 10 was part of the San Francisco Bay area. IR Site 10 was formerly an apron open space used for aircraft parking and maneuvering before construction of Building 400. Starting in 1957, the site was used for missile and aircraft component repair and maintenance operations. Other physical features present at IR Site 10 include one former underground storage tank (400-1), sanitary sewer lines, industrial waste lines, and open space. The site also includes six RCRA sites. Because of possible petroleum product contamination from floating product, a portion of IR Site 10 is designated as CAA-5C (BEI, 2006a).

Building 400 operated as a missile rework facility between 1957 and 1972. The building began operating as an avionics component rework facility from 1966 to the closure of the building in 1996. Currently, the building is used by a movie production company as office space and a production lot. Past operations that occurred at Building 400 included paint stripping, construction of fiberglass airplane components, airplane parts cleaning and degreasing, silk screening, photographic development, and radioluminescent painting of aircraft dial faces. Industrial wastewater produced in Building 400 was discharged into Seaplane Lagoon before 1972. After 1972, wastewater was discharged into an off-site wastewater treatment facility and used chemicals were collected at five collection points throughout the building. Wastes generated at Building 400 included paint sludges, metal shavings, paint strippers, cleaning solvents such as trichloroethene and carbon tetrachloride, testing fluids, and miscellaneous oil and grease products (BEI, 2006a).

During the DON's operations at Alameda Point from the 1950s to base closing, radioluminescent aircraft instrument dials were refurbished with Ra<sup>226</sup> in Building 400. Radiological activities took place on the second floor of Building 400. Prior to 1972, paint containing radium was washed down sink drains that fed into the storm sewer system leading from Building 400 into the mainline and out to Seaplane Lagoon (BEI, 2006a).

Site history indicates that Ra<sup>226</sup> was used and stored on the second floor of Building 400. In 1996, this floor was extensively surveyed for radiological materials. Equipment found to be contaminated was removed, and hot spots found on the floors were identified and removed. Additionally, radiological contamination was identified in the storm drains that service this building, and the piping was removed in 1999 and 2000. A radiological closeout survey was performed in 2001 to determine if any radiological contamination existed at Building 400. The radiological closeout survey demonstrated that no significant contamination remains in Building 400 (BEI, 2006a).

The storm sewer lines in the vicinity of IR Site 10 are below the groundwater table. The 24-inch reinforced concrete sewer line that parallels the northern side of Building 400, as well as the 15-inch sewer line that parallels the southern side of Building 400, have been identified as

radiologically contaminated. Currently, all water that enters the storm sewer system at IR Site 10 eventually flows into Seaplane Lagoon (BEI, 2006a).

### **2.1.3.3 Hydrology**

Alameda Point is underlain by the East Bay Plain Groundwater Basin. Two aquifer zones specific to remedial investigations have been identified beneath IR Sites 5 and 10. The first water-bearing zone in the vicinity of Buildings 5 and 400 occurs as an unconfined aquifer in the artificial fill material. The Young Bay Mud situated beneath the artificial fill acts as a semi-confining layer that separates the first water-bearing zone from the second water-bearing zone. The second water-bearing zone is situated in the lower portion of the Young Bay Mud unit and top of the Merritt Sand, and extends into the Upper San Antonio Formation. The Yerba Buena Mud unit acts as an aquitard. Previous site investigations suggest that any vertical gradient between the first and second water-bearing units is minimal.

#### **Groundwater at Alameda Point**

Groundwater flow in the first water-bearing zone is horizontal and flows radially from the center portion of Alameda Point toward Oakland Inner Harbor, San Francisco Bay, and Seaplane Lagoon. In the vicinity of IR Sites 5 and 10, groundwater flow is generally south toward San Francisco Bay, with shallow depths to groundwater ranging from 2 to 8 feet below ground surface. The first water-bearing zone is tidally influenced in areas near the San Francisco Bay shoreline, and seawater intrusion is a consequence of climatic variations. Investigators report that the first water-bearing zone at the site is characterized by thin lenses of fresh water recharged by precipitation floating on brackish to saline water.

#### **San Francisco Bay Dynamics**

Tidal range at the Golden Gate Strait varies from plus 7 feet to minus 1.1 feet compared with msl. While Bay currents at the Golden Gate Strait reach 4 miles per hour, currents near Alameda Point average less than 2 miles per hour. Winds seldom exceed 20 miles per hour and are predominantly a westerly onshore flow (blowing off the Bay from west to east).

The Sacramento and San Joaquin rivers contribute about 90 percent of the estimated 750 billion cubic feet of inflow to the Bay. Other sources include the Petaluma, Guadalupe, and Napa rivers; Alameda and San Lorenzo creeks; and Coyote Creek, Redwood Creek, and San Francisquito Creek.

#### **Seaplane Lagoon Dynamics**

Seaplane Lagoon is a semi-enclosed basin with a tidal connection to the waters of the Bay (Figure 2-2). The basin is surrounded on three-and-a-half sides by concrete bulkheads and a

breakwater. The local tides are semidiurnal with an average mean higher high tide range of 6.6 feet.

The tidal exchange between Seaplane Lagoon and the Bay occurs through a single, 664-foot opening to the south. The exchange of water is driven by the 6.6-foot tidal range and acts as a flushing mechanism for the nearly enclosed basin. Stormwater Outfalls F and G discharge into the waters of Seaplane Lagoon near the northwest and northeast corners of the basin, respectively.

Water from the Bay replaces a portion of the water in the Seaplane Lagoon basin after every tidal cycle. The effectiveness of this exchange depends primarily on the geometry of the basin and the size of the tidal range. As such, Seaplane Lagoon's flushing characteristics depend upon the tidal exchange with the Bay, its depth, and freshwater discharges into the basin through the outfalls.

#### **2.1.3.4 Environmentally Sensitive Areas**

The existing natural resources within the vicinity of IR Sites 5 and 10 consist of marine and biological resources, but because of the disturbed and developed nature of the sites, the areas contain no sensitive or critical habitat or biota.

The barren habitat within Sites 5 and 10 exists as bare soil, paved areas, and buildings as described. Barren habitat generally offers little value to wildlife; however, it may serve as a corridor between other habitats or as a resting place, but is not an area of significant occupation or shelter.

Adjacent to the sites are urban habitat, which is characterized by landscaped areas; non-native grassland; and estuarine habitat. These habitats have the potential to shelter special-status species. Figure 2-3 illustrates the removal action area and the adjacent habitats.

#### **2.1.3.5 Adjacent Land Usage**

Development of land surrounding Alameda Point during the period between the 1940s and the NAS closure in 1997 has consisted of light and heavy industrial facilities and shipyards to the north, and residential dwellings and various recreational facilities to the east.

Schools and day care facilities within the Alameda Point facility include George Miller Elementary School (Alameda Parcel 179), and Woodstock Child Development Center (Parcel 180). Schools and day care facilities within one mile of the former Alameda Point NAS boundaries include Alameda Community Learning Center (210 Central), Chipman Middle School (401 Pacific Avenue), and Encinal High School (210 Central Avenue). None of the schools or day care facilities are located within a 1-mile radius of the IR Sites 5 and 10 work vicinity.

### **2.1.3.6 Current and Future Land Usage**

IR Sites 5 and 10 are proposed to be used by the City of Alameda for commercial purposes. The sites will likely be designated for light industrial uses. A marina design is proposed for the area adjacent to Seaplane Lagoon. The surrounding land use is a mix of light industrial and commercial. Building 5 is currently vacant. Building 400 is leased to several tenants including a used car export company, art studio, and woodworking shop.

### **2.1.4 Release or Threatened Release into the Environment of a Hazardous Substance or Pollutant or Contaminant**

Based on the history of the site, <sup>226</sup>Ra and daughter products are likely to be encountered during the proposed TCRA activities and are hazardous substances, as defined by Section 101(14) of CERCLA, and pollutants or contaminants, as defined by Section 101(33) of CERCLA.

Because of the presence of low-level radioactive materials in areas exposed to erosion and weathering, a threat of migration and release to surrounding populations and the environment could exist.

The threat of release exists because of the long-lived half-life of these radioactive materials, their presence in areas designated for future development, and their presence in areas that may be affected by weather and erosion. Removal actions to be conducted in accordance with this AM are therefore designed to 1) substantially reduce ionizing radiation to cleanup goals and 2) eliminate identified pathways of exposure to ionizing radiation.

A summary of previous radiological and storm sewer investigations is provided in Section 2.2.

### **2.1.5 National Priorities List Status**

Alameda Point was placed on the National Priorities List on July 22, 1999 (64 Federal Register 140, 39878-39885, Final Rule, July 22, 1999).

## **2.2 OTHER ACTIONS TO DATE**

### **2.2.1 Previous Actions**

The DON documented prior FSSs of portions of Buildings 5 and 400 in the *Final Radiation Survey Report, Naval Air Station Alameda, California* (PRC, 1997). This report contained descriptions of the resurvey of radiologically impacted areas previously identified, the survey of newly scoped areas identified as a result of the 1997 work, and areas potentially impacted as a result of removal actions involving Building 5 and 400 sewer and industrial wastewater systems. The DON reported that areas known or suspected to contain radioactive contamination included 1) the bearing shop in Building 5 (former radium paint use area), 2) the small parts paint shop in Building 5, and 3) areas in Building 400 around Room 204 (BEI, 2006b).

The exposed and subterranean interior drain lines of Building 5 were surveyed for radioactive contamination in 1997. Additionally, storm drains from Buildings 5 and 400 and other locations emptying to Seaplane Lagoon were surveyed for radioactive contamination (NWT, 2000).

The Navy removed and/or cleaned a portion of the IR Sites 5 and 10 storm drain system. Removal, replacement, and cleaning are described in the *Final Report, Alameda Naval Air Station Storm Drain Removal Project* (NWT, 2000). The following activities were completed in 1997 and 1998:

- Approximately 660 linear feet of storm drain piping outside of Building 5/5A was removed.
- Three designated manholes (6F, 6F-1, 6F-2) were removed and replaced outside of Building 5/5A.
- Approximately 60 linear feet of “abandoned line” was removed and not replaced outside of Building 5/5A.
- Approximately 270 linear feet of storm drain piping between manholes 5F-4 and 5F-3 was hydroblast cleaned and resurveyed.
- Approximately 430 linear feet of storm drain piping between manholes 6F-5 and 6F was hydroblast cleaned and resurveyed.

The action level and release level for removed material and trench bottoms were 1.5 times background and 5 pCi/g of <sup>226</sup>Ra.

Several issues and challenges were reported during the CERCLA removal action. The Final Report (NWT, 2000) detailed them as follows:

- The original shoring installed (trench plate and whaler system) was found to be ineffective at shoring due to the soil conditions; however, an interlocking sheet pile system was effective.
- Soil with concentrations of <sup>226</sup>Ra above 5 pCi/g was encountered at several locations outside Building 5/5A, resulting in a large increase in the amount of soil requiring off-site disposal.
- Reinforced piping was discovered due to repairs that occurred during the mid-1970s, and a hydraulic breaker was required.
- Saturated soil was encountered, which required the implementation of soil staging and drying prior to shipment off site.

In 1999, a removal action was conducted to remove radiological contamination on floors and walls of the paint booths and adjacent offices together with interior drain piping and storm drains. The removal action also included removing radiological contamination from the storm drain lines outside of Building 5 to manhole 5F. Results of a radiological closeout survey completed after the removal action indicated that no significant radioactive contamination

remained within Buildings 5 and 400. All final measurements taken during the survey were at or below the applicable surface activity limit (BEI, 2006a).

From October 1998 through April 2000, the DON performed a radiological closeout survey at Alameda Point for Buildings 5 and 400 (BEI, 2006b). The radiological closeout survey was performed to demonstrate that residual radioactive materials associated with DON activities were present at levels below levels that satisfy criteria established by the Navy's Radiological Affairs Support Office, the Nuclear Regulatory Commission (NRC), and the California Department of Public Health (CDPH). Methods used in the radiological closeout survey were consistent with guidance described in the *Manual for Conducting Radiological Surveys in Support of License Termination* (NRC, 1992) and the *Multi-Agency Radiation Survey and Site Assessment Manual* (EPA, 1997), as modified in the *Final Status Radiation Survey and Field Sampling Work Plan* (TtEMI, 1998) and *Addendum Confirmation Radiation Survey and Field Sampling Work Plan* (TtEMI, 2002). The surveys were designed assuming that the radionuclide of interest was <sup>226</sup>Ra for which the most restrictive limits have been established (BEI, 2006b).

Areas with residual radioactive contamination were removed or decontaminated by the DON. After decontamination, areas of the buildings were surveyed for alpha or beta-gamma surficial contamination of gamma radiation. Areas previously identified with radioactive contamination exceeding established limits underwent Class 1 surveys. Adjacent areas underwent Class 2 surveys. Class 3 area surveys for gamma emissions proceeded in the other areas of Building 5 to ensure that no Class 1 or Class 2 areas had been missed in the previous classification of areas of the building. In addition, swipe tests for removable radioactivity were performed in Building 5 in Rooms 4, 223, 227, 234, and under the spray booths on the first floor.

In 2000, the DON conducted a storm sewer study. The primary objective of this investigation was to identify storm sewer sections that were damaged, located below the water table (submerged), and subject to infiltration of contaminated groundwater (TtEMI, 2000). The data collected would be used to prioritize storm sewer sections for repair to minimize infiltration of contaminated groundwater and its subsequent transport to the Bay (BEI, 2006b).

Documentation of all previous actions are maintained in the Administrative Records, located at 937 Harbor Drive, Building 1, 3<sup>rd</sup> floor, San Diego, California. The Index of Administrative Records for IR Sites 5 and 10 is included in Appendix A.

### **2.2.2 Current Actions**

The DON conducted a historical radiological assessment of Alameda Point (Weston Solutions Inc., 2007). This document evaluated past uses and storage of radioactive materials at Alameda Point and previous radiological surveys and removal actions.

## **2.3 ROLE OF STATE AND LOCAL AUTHORITIES**

The CDPH and the EPA have actively participated in the radiological investigations and the radiological removal actions at Alameda Point. In the past, the EPA has provided site-specific input for the establishment of removal action cleanup goals and investigative strategies. The EPA is the lead regulatory agency with state regulatory oversight provided by the Department of Toxic Substances Control (DTSC). United States Fish and Wildlife Service (USFWS) provides guidance regarding sensitive species issues.

### **2.3.1 State and Local Actions to Date**

As previously discussed, Federal Executive Order 12580 delegates to the DoD the President's authority to undertake CERCLA response actions. Congress further outlined this authority in its Defense Environmental Restoration Program Amendments, which can be found at 10 U.S.C. Sections 2701–2705. Both CERCLA Section 120(f) and 10 U.S.C. Section 2705 require the DON to ensure that state and local officials be given timely opportunity to review and comment on DON response actions at its facilities. CERCLA Section 120 further requires the DON to apply state removal and remedial action law requirements at its facilities. Accordingly, CDPH, EPA, DTSC, USFWS, and the San Francisco Bay Water Board (Water Board) have provided technical advice and oversight during phases of the remedial investigation process, during previous radiological investigations, and will continue to do so during current and future radiological removal actions.

### **2.3.2 Potential for Continued State or Local Response**

CDPH, the Water Board, EPA, and DTSC will continue to provide input through review of radiological documents and participation in the Base Realignment and Closure (BRAC) Cleanup Team.

It is expected that the DON's BRAC account funds will continue to be the source of funding for this program.

### **3.0 THREATS TO PUBLIC HEALTH, WELFARE, OR THE ENVIRONMENT**

In accordance with the NCP, the following factors must be considered in determining the appropriateness of a removal action (40 CFR, Part 300.415[b][2]):

- i. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants
- ii. Actual or potential contamination of drinking water supplies or sensitive ecosystems
- iii. Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers that may pose a threat of release
- iv. High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface that can migrate or be released
- v. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released
- vi. Threat of fire or explosion
- vii. The availability of other appropriate federal or state response mechanisms to respond to the release
- viii. Other situations or factors that may pose threats to public health or welfare or the environment

#### **3.1 THREATS TO HUMAN HEALTH OR WELFARE**

Of the eight factors listed above, the following two factors potentially apply to the current conditions at IR Sites 5 and 10 (pursuant to 40 CFR, Part 300.415[b][2]) concerning a threat to public health or welfare:

- i. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants
- v. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released

The primary potential threat to human health is the risk of exposure to ionizing radiation from radiological materials. Potential exposure of utility maintenance workers who may work on the storm drain lines or other utilities crossing the potentially impacted areas is of specific concern. Extreme weather conditions could cause ordinarily immobile radiological contamination to be dislodged from storm drain piping.

### 3.2 THREATS TO THE ENVIRONMENT

The following three NCP-defined factors for evaluating the appropriateness of a TCRA potentially apply to current conditions at the TCRA areas with respect to ecological receptors (pursuant to 40 CFR, Part 300.415[b][2]):

- i. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants
- ii. Actual or potential contamination of drinking water supplies or sensitive ecosystems
- v. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released

Direct exposure to radiological contamination is the primary potential threat to the environment and sensitive ecosystems adjacent to the sites. The existing natural resources within the vicinity of IR Sites 5 and 10 consist of marine and biological resources, but because of the disturbed and developed nature of the sites, the areas contain no sensitive or critical habitat or biota.

The barren habitat within Sites 5 and 10 exists as bare soil, paved areas, and buildings as described. Barren habitat generally offers little value to wildlife; however, it may serve as a corridor between other habitats or as a resting place, but is not an area of significant occupation or shelter.

Adjacent to the sites are urban habitat, which is characterized by landscaped areas; non-native grassland; and estuarine habitat. These habitats have the potential to shelter special-status species. Figure 2-3 illustrates the removal action area and the adjacent habitats.

## **4.0 ALTERNATIVE EVALUATION, PROPOSED ACTIONS, AND ESTIMATED COSTS**

The following sections summarize the proposed actions to be performed per this AM.

### **4.1 EVALUATION OF ALTERNATIVES**

#### **4.1.1 Evaluation Criteria**

The three criteria of effectiveness, implementability, and cost were used to evaluate the removal and disposal alternative proposed in this AM (EPA, 1990).

##### **Effectiveness**

The criterion of effectiveness addresses how well the alternatives meet the objectives described above. Three general factors were considered in evaluating the effectiveness of the removal action: 1) overall protection of human health and the environment, 2) short-term effectiveness, and 3) long-term effectiveness and permanence.

##### **Implementability**

The criterion of implementability addresses the technical and administrative feasibility of implementing the removal action. Items evaluated include 1) the availability of services and materials required during implementation of the action, 2) the institutional or social concerns that could preclude the action, and 3) state and community concerns that could affect implementation. The following factors were considered:

- Technical feasibility: the ease or difficulty of implementing the alternative and the reliability of the technology
- Administrative feasibility: activities, such as obtaining waivers or permits, requiring coordination with other offices and agencies

##### **Cost**

The criterion of cost is concerned with the estimated costs of the alternative and is based on previous radiological removal actions for soils and structures. Operation costs were not considered in the cost evaluation because removal actions will be performed in less than a year, and no follow-on costs are associated once this removal action has been completed.

#### **4.1.2 Evaluation of “No Action” Alternative**

In this alternative, no actions are performed. This alternative provides a baseline for comparing all other alternatives.

## **Effectiveness**

The “no action” alternative provides no protection for human health and the environment.

## **Implementability**

This alternative has high implementability, because no action is undertaken.

## **Cost**

The “no action” alternative incurs no cost.

### **4.1.3 Evaluation of Hydroblasting Action Alternative**

Hydroblasting employs the use of a high-pressure, high-volume water pump to drive a self-feeding nozzle into the pipe. The water pump is an integral part of a combination truck, commonly used in the sanitation industry (Jet-Vac truck). The pump is similar in design and capability to a hydroblaster pump. However, rather than removing hard chemical deposits, Jet-Vac trucks are designed to scour organic residues from the surfaces of pipes and retrieve solid debris that accumulates in the bottom of the pipe.

The nozzle incorporates a rotary-head design that systematically scours the total surface area of the pipe with focused, high-pressure water jets as the nozzle progresses forward. The jets also face backward, which serves as the source of propulsion to feed the nozzle and water supply hose into the pipe. The entire nozzle assembly is attached to a wheeled, adjustable, centralizer frame that centers the nozzle in the pipe, thereby providing uniform cleaning action. The centralizer is capable of traversing sweeping 90-degree turns. The hose feeds from a hydraulically actuated reel. The nozzle is inserted at the base of a pipe run, propelled at high velocity to the upper end of the run, and slowly reeled back toward the lower access point, removing residues from the surfaces, and flushing them back to the truck for collection. Operating with this orientation uses gravity draining for rinsate collection. Contaminated rinsate will be collected by vacuum trucks and taken to the tank storage area.

## **Effectiveness**

Cleaning impacted sewer and storm drain lines by hydroblasting is not the most effective removal action alternative. Because the existing storm water and sewer lines may have cracks and fissures, it is possible that water used to flush the piping would actually force contamination into the soil and would not provide the highest level of protection for human health and the environment. This alternative does not allow for the removal of soil surrounding the piping that may already be radioactively contaminated. Free-release status will not be achieved if any radiological contamination remains on site above the RAO.

## **Implementability**

Most of the radioactive contamination identified at Alameda Point to date has been in localized areas. Previous investigations have identified specific storm drain and sewer lines containing radioactive contamination. Hydroblasting is feasible for these types of situations. However, the hydroblasting method relies on gravity feeding of the rinsate water back to the collection area. This may not be feasible depending on the condition and location of the piping.

## **Cost**

Unit costs for labor, mobilization, and disposal using hydroblasting to remove radiological contamination are less than the unit costs for removal, disposal, and replacement of sewer lines. This is primarily because the surrounding soil that is radioactively contaminated is not investigated or removed under this alternative. Neither are the sewer lines removed or replaced. Costs for hydroblasting and disposal of hydroblasting wastes were estimated at \$300,000.

### **4.1.4 Evaluation of Removal and Off-Site Disposal (Selected Remedy)**

The removal and off-site disposal of radiologically impacted storm drains and sewer lines and associated soils provides the highest degree of effectiveness, is feasible to implement, and is also economically feasible. This is the selected removal action alternative.

## **Effectiveness**

Removal of piping and contaminated soil together with off-site disposal provides the highest degree of protection for human health and the environment by physically removing the materials from Alameda Point. Removal and off-site disposal will also comply with chemical-, action-, and location-specific applicable or relevant and appropriate requirements (ARARs).

## **Implementability**

This alternative does not have administrative constraints and has few technical constraints. Most of the radioactive contamination identified at Alameda Point to date has been in localized areas. Previous investigations have identified specific storm drain and sewer lines containing radioactive contamination. Physical removal is feasible for these types of situations.

## **Cost**

Unit costs for labor, mobilization, site remediation, and disposal for radiological contamination actions are, on average, greater than the unit cost of chemical contamination removal actions in soils. However, the cost does not become prohibitive unless large volumes of radioactive materials or mixed wastes are removed and disposed of. The estimated cost for the selected remedy is \$11,883,950. Additional details regarding the cost estimate are presented in Section 4.4.

## 4.2 SELECTED REMEDY – PROPOSED ACTION

Removal and off-site disposal of the existing storm drain and sewer lines was chosen as the selected remedy because it provides the best combination of effectiveness, implementability, and cost. Figure 4-1 shows the storm drain and sanitary sewer system.

The proposed removal action described in this AM is to remove the existing stormwater and sewer system and any associated soils impacted with <sup>226</sup>Ra. A new storm drainage system will be installed. Radiologically impacted storm and sewer line debris and soils will be removed and disposed of off site. Trench water generated as part of the removal action will be collected, treated, sampled, and discharged to the Seaplane Lagoon or to land in accordance with the provisions of General National Pollutant Discharge Elimination System (NPDES) Permit for structural dewatering activities. Alternatively, water may be discharged to the East Bay Municipal Utilities District (EBMUD) sanitary sewer system for eventual treatment at the Publicly Owned Treatment Works (POTW) under provisions granted under a special discharge permit with EBMUD.

The RAO for this AM is to protect public health and welfare and the environment by physically removing and disposing of radioactive contaminants contamination such that a TEDE of < 15 mrem/yr is achieved. The release criteria of 1 pCi/g of <sup>226</sup>Ra above background will achieve this RAO.

### 4.2.1 Proposed Action Description

No sensitive or critical habitat areas or biota are noted within the area of proposed action because of the disturbed and developed nature of the sites. Existing natural resources within the boundaries of Alameda Point and the vicinity of IR Sites 5 and 10 consist of marine and biological resources. The removal action will be conducted to minimize the affect to those areas through the implementation of best management practices (BMPs) that will be developed and implemented to prevent uncontrolled stormwater runoff into the Bay during the removal action and will be included as part of a Stormwater Management Plan (SWMP) that will be provided as an appendix to the TCRA Work Plan (TtEC, 2007).

Areas where radiation is not considered the primary risk driver will continue to be evaluated by the ongoing CERCLA process.

Post-removal site controls will not be addressed as part of work performed under this AM but, if required, will be addressed as part of the CERCLA remedial decision.

## **4.2.2 Contribution to Remedial Performance**

The removal of radiologically impacted storm drain and sewer lines reduces potential risks to human health and the environment. Removal actions directed under this AM will be performed with regard for City of Alameda's reuse plan for the site.

## **4.3 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS**

Section 300.415(j) of the NCP provides that removal actions must attain ARARs to the extent practicable, considering the exigencies of the situation.

Section 300.5 of the NCP defines applicable requirements as cleanup standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal or state environmental or facility siting laws that specifically address a hazardous substance, pollutant, contaminant, remedial action, location or other circumstances at a CERCLA site.

Section 300.5 of the NCP defines relevant and appropriate requirements as cleanup standards, standards of control and other substantive requirements, criteria, or limitations promulgated under federal or state environmental or facility siting laws that, while not "applicable" to a hazardous substance, pollutant, or contaminant, remedial action, location, or other circumstances at a CERCLA site, address problems or situations sufficiently similar to those encountered at the CERCLA site and are well-suited to the particular site.

Because CERCLA on-site response actions do not require permitting, only substantive requirements are considered as possible ARARs. Administrative requirements such as approval of, or consultation with, administrative bodies, issuance of permits, documentation, reporting, recordkeeping, and enforcement are not ARARs for CERCLA actions confined to the site.

Only those state standards identified by a state in a timely manner and those more stringent than federal requirements may be applicable or relevant and appropriate.

There are three types of ARARs: chemical-specific, location-specific, and action-specific. Chemical-specific ARARs set limits on concentrations of specific hazardous substances, contaminants, and pollutants in the environment. Examples of chemical-specific ARARs are ambient water quality criteria and drinking water standards. Location-specific ARARs set restrictions on certain types of activities based on site characteristics. These include restrictions on activities in wetlands, floodplains, and historic sites. Action-specific ARARs are technology-based restrictions triggered by the type of action under consideration. Examples of action-specific ARARs are RCRA regulations for waste treatment, storage, and disposal.

ARARs must be identified on a site-specific basis from information about specific chemicals at the site, specific features of the site location, and actions being considered as removal actions. The ARARs used to prepare this AM are presented in Appendix B.

#### **4.3.1 Chemical-specific ARARs**

Chemical-specific ARARs are health- or risk-based numerical values or methodologies that, when applied to site-specific conditions, establish the acceptable amount or concentration of a chemical that may be found in, or discharged to, the ambient environment. Chemical-specific ARARs are described below.

##### **4.3.1.1 Federal Chemical-Specific ARARs**

###### **RCRA Hazardous Waste Standards**

Because the state program has been authorized by the EPA, the state regulatory requirements are the controlling ARARs and are therefore considered federal ARARs. The applicability of RCRA requirements depends on whether the waste is an RCRA hazardous waste; whether the waste was initially treated, stored, or disposed of after the effective date of the particular RCRA requirement; and whether the activity at the site constitutes treatment, storage, or disposal as defined by RCRA. However, RCRA requirements may be relevant and appropriate even if they are not applicable. The determination of whether a waste is an RCRA hazardous waste can be made by comparing the site waste to the definition of RCRA hazardous waste. The RCRA requirements in 22 California Code of Regulations (CCR), Sections 66261.21, 66261.22(a)(1), 66261.23, 66261.24(a)(1), and 66261.100 are ARARs because they define RCRA hazardous waste. A waste can meet the definition of hazardous waste if it has the toxicity characteristic of hazardous waste. This determination is made by using the Toxicity Characteristic Leaching Procedure (TCLP). The maximum concentrations allowed for the TCLP listed in Section 66261.24(a)(1)(B) are federal ARARs for determining whether the site has hazardous waste. If the site waste has concentrations exceeding these values, it is determined to be a characteristic RCRA hazardous waste.

This removal action is intended to solely address radioactive contamination; however, chemical contamination may also be present and therefore RCRA requirements could potentially be applicable. Wastes will be characterized for chemical contamination prior to off-site disposal.

###### **Clean Water Act National Pretreatment Standards**

The National Pretreatment Standards at 40 CFR 403.5 and 403.6 apply to discharges to a POTW. The Clean Water Act (CWA) requires that owners of sanitary sewer systems feeding into a POTW with an NPDES permit enforce those federal standards against the industrial dischargers via a local permit program. During the removal action, wastewater may be generated that

requires off-site disposal. Should this occur, the DON will comply with the EBMUD pretreatment requirements.

### **Nuclear Regulatory Commission Standards for Protection Against Radiation**

Radiological criteria for termination of a license for an existing NRC-licensed, radiologically contaminated site for future unrestricted reuse are found at 10 CFR 20.1402. Alternate criteria are provided in 10 CFR 20.1404(a)(1)-(a)(3). IR Sites 5 and 10 are not NRC-licensed radiologically contaminated sites. However, the requirements of radiological criteria for license termination at 10 CFR 20.1402 are relevant and appropriate because unrestricted reuse is proposed following the remedial action and IR Sites 5 and 10 have contamination similar to those regulated at an NRC-licensed sites (i.e., <sup>226</sup>Ra).

The criteria in 10 CFR Part 40, Appendix A, Part I, Criterion 6(6) provide a benchmark approach for setting radionuclide cleanup levels as a supplement to 40 CFR Part 192 and are considered relevant and appropriate for this removal action. The design requirements in this criteria for longevity and control of radon releases apply to any portion of a licensed and/or disposal site unless such portion contains a concentration of radium in land, averaged over areas of 100 square meters, which, as a result of by-product material, does not exceed the background level by more than 5 pCi/g of <sup>226</sup>Ra.

The RAO for this project is intended to reduce residual radioactivity to “As Low As Is Reasonably Achievable (ALARA).”

ALARA is the approach to radiation protection to manage and control exposures (both individual and collective) to the work force and to the general public and release of radioactive material to the environment to as low as is reasonable, taking into account social, technical, economic, practical, and public policy considerations.

### **NRC Effluent Limits**

Annual limits on intake and derived airborne concentrations of radionuclides for occupational exposure, occupational values (10 CFR, Part 20, Appendix B, Tables 1 and 2, respectively), are relevant and appropriate for the removal action because potential soil and stormwater releases could be impacted by <sup>226</sup>Ra.

### **NRC Radiation Dose Limits for Individual Members of the Public**

Radiation dose limits for the public are required in the substantive provisions of 10 CFR Part 20.1301. This part is considered relevant and appropriate for effluents released while the removal action is being conducted. This criterion requires that the TEDE to individual members of public not exceed 0.1 rem per year (100 mrem/yr) from licensed operations.

## Uranium Mill Tailings Radiation Control Act

Standards for the cleanup of certain radiologically contaminated sites have been issued under the Uranium Mill Tailings Radiation Control Act (UMTRCA), Public Law 95-604. These standards are codified at 40 CFR Part 192 and were developed specifically for the cleanup of uranium mill tailings at 24 sites designated under Section 102(a)(1) of UMTRCA (Title I sites). The purpose of these standards was to limit the risk from inhalation of radon decay products in houses built on land contaminated with tailings, and to limit gamma radiation exposure of people using contaminated land (see 48 Federal Register 600). The UMTRCA standards are not applicable to IR Sites 5 and 10 because they are not mill sites to which the UMTRCA standards specifically apply. Specific UMTRCA requirements were therefore evaluated as to whether they are relevant and appropriate for the proposed removal action.

In order for standards in 40 CFR Part 192 to be relevant and appropriate, the contaminants at the site must be the same (i.e.,  $^{226}\text{Ra}$ ) and the distribution of contamination must be similar to that existing at a Title I site (EPA, 1998). If it is determined either in the course of further study or even during remedial action that subsurface contamination exists at a level between 5 pCi/g to 15 pCi/g averaged over areas of 100 square meters (the averaging areas provided for in Part 192 rules), conditions at the site are probably not sufficiently similar to an UMTRCA site to consider the subsurface standard at 40 CFR Part 192 relevant and appropriate. If contamination at the sites is unlike that of uranium mill tailings sites, in that significant subsurface contamination exists at a level between 5 pCi/g and 30 pCi/g, the use of a 15 pCi/g standard is not generally appropriate. Instead, 5 pCi/g is recommended because that was the actual health-based standard expected to be achieved by 40 CFR Part 192.

Requirements for cleanup of radiological contaminants are found in UMTRCA standards for cleanup of land and buildings contaminated with residual radiological materials from inactive uranium processing sites. Dose limits for  $^{226}\text{Ra}$  in soil are found at 40 CFR Sections 192.12(a), 192.32(b)(2), and 192.41, which state that as a result of residual radiological materials from any designated processing site:

- (a) The concentration of  $^{226}\text{Ra}$  in land averaged over any area of 100 square meters shall not exceed the background level by more than
  - (1) 5 pCi/g, averaged over the first 15 cm of soil below the surface, and
  - (2) 15 pCi/g, averaged over 15 cm-thick layers of soil more than 15 cm below the surface.

The substantive provisions of 40 CFR Parts 192.12(a) and 192.32(b)(2) have been determined to be relevant and appropriate at IR Sites 5 and 10, because the contaminant ( $^{226}\text{Ra}$ ) matches and subsurface contamination is expected at levels between 5 to 30 pCi/g in the subsurface. The proposed removal action will meet these standards.

The requirements at 40 C.F.R. Sections 192.12(b)(1) and 192.41(b) state that in any occupied or habitable building the objective of remedial action shall be, and reasonable effort shall be made to achieve, an annual average (or equivalent) radon decay product concentration (including background) not to exceed 0.02 Working Level (WL). In any case, the radon decay product concentration (including background) shall not exceed 0.03 WL. Provisions applicable to radon-222 shall also apply to radon-220. The provisions of 40 CFR Sections 192.12(b)(1) and 192.41(b) are relevant and appropriate if habitable buildings are constructed at IR Sites 5 and 10 as a part of site reuse.

The criteria at 10 CFR Part 40, Appendix A, Part I, Criterion 6(6) provide a benchmark approach for setting radionuclide cleanup levels as a supplement to 40 CFR Part 192.

#### **4.3.1.2 State Chemical-specific ARARs**

State RCRA requirements included within the EPA-authorized RCRA program for California are considered to be federal ARARs and were discussed previously. When state regulations are either broader in scope or more stringent than their federal counterparts, they are considered state ARARs. State requirements such as the non-RCRA, state-regulated hazardous waste requirements may be state ARARs because they are not within the scope of the federal ARARs (57 Federal Regulation 60848). The 22 CCR, Division 4.5 requirements that are part of the state-approved RCRA program would be stated ARARs for non-RCRA, state-regulated hazardous wastes.

The site waste characteristics need to be compared to the definition of non-RCRA, state-regulated hazardous waste. The non-RCRA, state-regulated waste definition requirements in 22 CCR Section 66261.24(a)(2)(c) or 66261.3(a)(2)(F), 66261.22(a)(3) and (4), 66261.24(a)(2)-(a)(8), and 66261.101 are state ARARs for determining whether other RCRA requirements are state ARARs. This section lists the Total Threshold Limit Concentrations and Soluble Threshold Limit Concentration. The site waste may be compared to these thresholds to determine whether it meets the characteristics for a non-RCRA, state-regulated hazardous waste.

Title 27, CCR, Sections 20210 and 20220 are state definitions for designated waste and non-hazardous waste, respectively. These may be ARARs for soils that meet the definitions. These soil classifications determine state classification requirements for discharging waste to land.

This removal action is intended to solely address radioactive contamination; however, chemical contamination may also be present and therefore non-RCRA state requirements could potentially be applicable. Wastes will be characterized for chemical contamination prior to off-site disposal.

#### **Porter-Cologne Water Quality Control Act**

The Porter-Cologne Act became Division 7 of the California Water Code in 1969. The Porter-Cologne Act requires each regional board to formulate and adopt a basin plan for each area within the region (California Water Code Section 13240). It also requires each regional board to

establish water quality objectives (WQOs) that will protect the beneficial uses of the water basin (California Water Code Section 13241) and to prescribe waste discharge requirements that would implement the basin plan for any discharge of waste into the waters of the state (California Water Code Section 13263[a]).

Other sections of the Porter-Cologne Act include California Water Code Section 13243, which allows regional boards to specify conditions or areas where waste discharge is not permitted. California Water Code Section 13269 provides the board's authority for waivers for reports or compliance with requirements as long as it is not against the public interest. California Water Code Section 13360 specifies circumstances for regional boards to order compliance in a specific manner.

The DON accepts, as state ARARs, the substantive provisions of California Water Code Sections 13241, 13243, 13263(a), 13269, and 13360 of the Porter-Cologne Act as enabling legislation, as implemented through the beneficial uses, WQOs, waste discharge requirements, and promulgated policies of the Comprehensive Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan). Where waste discharge requirements are specified in general permits, the substantive requirements in the permits, but not the permits themselves, are ARARs.

California Water Code Section 13304 sets forth enforcement authority and an enforcement process (orders issued by the state) and is procedural in nature. It does not constitute an ARAR because it does not itself establish or contain substantive environmental "standards, requirements, criteria, or limitations" (CERCLA Section 121 [42 U.S.C. Section 9621]) and is not in itself directive in intent. Through its enforcement authority and procedures, substantive state environmental standards set forth in other statutes, regulations, plans, and orders are enforced. In addition, California Water Code Section 13304 is not more stringent than the substantive requirements of the state ARARs identified in the above paragraphs or ARARs for groundwater.

### **Comprehensive Water Quality Control Plan for the San Francisco Bay Basin**

The DON accepts the substantive provisions in the Basin Plan, Chapters (ch.) 2 and 3 (Water Board, 2006), including beneficial use, excepting municipal groundwater use as described below, WQOs, and waste discharge requirements, as ARARs. The WQOs and uses designated for the groundwater underlying IR Sites 5 and 10 are ARARs.

The Basin Plan was prepared and implemented by the Water Board to protect and enhance the quality of the waters in the San Francisco Bay Basin. The Basin Plan establishes location-specific beneficial uses and WQOs for the surface water and groundwater of the region and is the basis of the Water Board's San Francisco Bay Basin regulatory programs.

The Basin Plan includes both numeric and/or narrative WQOs for specific groundwater sub-basins and surface water. The WQOs are intended to protect the beneficial uses of the waters of the region and to prevent nuisance.

Numeric WQOs have not been established in the Basin Plan for the San Francisco Bay Region for radioactive compounds in groundwater (excluding the municipal and domestic water supply [MUN]). The narrative objective for groundwater used as an agricultural supply states, “Groundwater with a beneficial use of agricultural supply shall not contain concentrations of chemical constituents in amounts that adversely affect such beneficial use.” The narrative objective for groundwater used as an industrial supply states, “Groundwater with a beneficial use of industrial service supply or industrial process supply shall not contain pollutant levels that impair current or potential industrial uses.”

The following objective applies to all surface waters within the region. “Radionuclides shall not be present in concentrations that result in the accumulation of radionuclides in the food web to an extent that presents a hazard to human, plant, animal, or aquatic life. Waters designated for use as domestic or municipal supply shall not contain concentrations of radionuclides in excess of the limits specified in Table 4 of Section 64443 (Radioactivity) of Title 22 of the California Code of Regulations (CCR).” The surface water WQOs that apply to this removal action include:

- Combined  $^{226}\text{Ra}$  and  $^{228}\text{Ra}$  = 5 picocuries per liter (pCi/L)
- Gross Alpha Particle Activity = 15 pCi/L
- Beta Particle and Photon Radioactivity = 4 mrem/yr

Remediation of naturally occurring concentrations of inorganic constituents that may exceed regional aquifer WQOs established by the Water Board to below background water-quality conditions is not required by the State Water Resources Control Board (SWRCB) under the Porter-Cologne Act, SWRCB Res. No. 68-16, and the basin plans of the state and regional water boards.

Beneficial use and reuse of water are key aspects of the Basin Plan for the San Francisco Bay Basin. IR Sites 5 and 10 are located in the East Bay Plain groundwater sub-basin. This sub-basin has the following beneficial use designations (Water Board, 2006):

- MUN
- Agricultural supply
- Industrial service supply
- Industrial process supply

The Basin Plan allows for exceptions from MUN designations. In making exceptions from MUN designations, the Water Board will consider criteria referenced in SWRCB Res. No. 88-63 (see

Chapter 2 of the Basin Plan: *Beneficial Uses and Present and Potential Beneficial Uses, Groundwater*). The DON considers the substantive provisions of this chapter to be an ARAR, and therefore the criterion for excepting a MUN designation is either of the following, which are the same criteria of SWRCB Res. No. 88-63 quoted below:

- The total dissolved solids (TDS) exceed 3,000 milligrams per liter (mg/L) (electrical conductivity 5,000 microhms per centimeter), and the Water Board does not reasonably expect the groundwater to supply a public water system.

or

- The groundwater does not provide sufficient water to supply a single well capable of producing an average, sustained yield of 200 gallons per day.

Shallow groundwater beneath IR Sites 5 and 10 has little potential as sources of drinking water for the following reasons:

- Existing saltwater intrusion into the shoreline groundwater
- Likelihood of saltwater intrusion into the inland groundwater shortly after beginning groundwater pumping, causing elevated TDS levels in a short period of time
- No supply wells currently existing within or downgradient of the contaminated groundwater at IR Sites 5 and 10
- State and county limitations on well construction due to the thin, vulnerable first water-bearing zone aquifer

In a letter to the DON dated July 21, 2003 (Regional Water Quality Control Board [RWQCB], 2003), the Water Board concurred that groundwater west of Saratoga Street (which would include IR Sites 5 and 10) meets the exemption criteria in the SWRCB Source of Drinking Water Policy Res. 88-63. Therefore, in light of this determination and the site-specific conditions, the MUN beneficial use is not considered an ARAR.

The agricultural and industrial beneficial uses are considered ARARs but are not expected uses of the groundwater.

Although there are no surface waters located within the boundaries of the site, stormwater from the site drains to Seaplane Lagoon, and ultimately to San Francisco Bay. The San Francisco Bay Estuary supports estuarine habitat, industrial service supply, and navigation in addition to all of the uses listed within the Basin Plan for streams. The specific beneficial uses for inland streams include MUN, agricultural supply, industrial process supply, groundwater recharge, water contact recreation, noncontact water recreation, wildlife habitat, cold freshwater habitat, warm freshwater habitat, fish migration, and fish spawning.

## **4.3.2 Location-specific ARARs**

Location-specific ARARs are restrictions on the concentrations of hazardous substances or on conducting activities solely because they are in specific locations. Hydrologic resources, biological resources, and coastal zone management are the resource categories relating to location-specific requirements potentially affected by IR Sites 5 and 10.

### **4.3.2.1 Federal Location-specific ARARs**

#### **Coastal Resource ARARs**

The Federal Coastal Zone Management Act (Coastal Zone Management Act, 16 U.S.C. Sections 1451–1464 and 15 CFR 930) requires that all federal activities that affect the coastal zone shall be conducted in a manner consistent, to the maximum extent practicable, with approved state management programs.

#### **Migratory Bird Treaty Act of 1972**

The Migratory Bird Treaty Act (16 U.S.C. Sections 703–712) prohibits at any time, using any means or manner, the pursuit, hunting, capturing, and killing or attempting to take, capture, or kill any migratory bird. This act also prohibits the possession, sale, export, and import of any migratory bird or any part of a migratory bird, as well as nests and eggs. A list of migratory birds for which this requirement applies is found at 50 CFR Section 10.13. It is the DON's position that this act is not legally applicable to DON actions; however, Exec. Order No. 13186 (dated January 10, 2001) requires each federal agency taking actions that have or are likely to have a measurable effect on migratory bird populations to develop and implement, within 2 years, a memorandum of understanding (MOU) with the USFWS to promote the conservation of such populations. The DoD and USFWS are in the process of negotiating this MOU. In the meantime, the Migratory Bird Treaty Act will continue to be evaluated as a relevant and appropriate requirement for DON CERCLA response actions.

#### **Endangered Species Act of 1973**

The Endangered Species Act (ESA) of 1973 (16 U.S.C. Sections 1531–1543) provides a means for conserving various species of fish, wildlife, and plants that are threatened with extinction. The ESA defines an endangered species and provides for the designation of critical habitats. Federal agencies may not jeopardize the continued existence of any listed species or cause the destruction or adverse modification of critical habitat. Under Section 7(a) of the ESA (16 USC Section 1536[a][2]), federal agencies must ensure that their actions are not likely to jeopardize the continued existence of any endangered species or threatened species or result in the destruction or adverse modification of habitat of such species. Consultation regulations at 50 CFR Part 402 are administrative in nature and are therefore not ARARs. However, they may be “To Be Considered” to comply with the substantive provisions of the ESA.

One endangered species, the California least tern, nests in another part of Alameda Point. The nesting area is more than a mile from the site and no least terns have been reported or observed in the area of the response. Also, no other endangered or threatened species have been observed in the response areas. Accordingly, the ESA is not considered an ARAR.

#### **4.3.2.2 State Location-specific ARARs**

##### **California Department of Fish and Game ARARs**

Upon consultation with the California Department of Fish and Game, numerous California Fish and Game Code (CFGF) regulations were considered as ARARs. The DON's position is that the United States Congress did not specifically waive federal sovereign immunity. Therefore, authority does not exist to authorize applicability of the CFGF regulations. In addition, Section 121(e) of CERCLA exempts on-site CERCLA response actions from permit requirements. The DON follows the CERCLA process rather than these permitting processes when making CERCLA decisions. However, several of the CFGF regulations can be considered relevant and appropriate to this removal action. These ARARs protect threatened and endangered species and habitats. The regulations considered ARARs are discussed below and are also included in Appendix B.

CFGF Section 5650(a), (b), and (f) prohibits depositing or placing where it can pass into waters of the state any petroleum products (Section 5650[a][1]), factory refuse (Section 5650[a][4]), sawdust, shavings, slabs or edgings (Section 5650[a][3]), and any substance deleterious to fish, plant life or bird life (Section 5650[a][6]). During this removal action, no direct deposition of material is expected to enter into or impact waters of the states; however, the substantive portions of this standard will be complied with as an ARAR. Any removal taking place in an area that may impact waters of the state will be conducted in such a way as to ensure that materials dug up will not be released into the water column.

CFGF Section 2080 (added by Statute 1984, ch. 1240, Section 2) prohibits the take, possession, purchase or sell within the state of any species (including rare native plant species), or any product thereof, that the commission determines to be an endangered or threatened species, or the attempt of any of these acts. This section is not an ARAR. The DON has conducted several studies for special-status species at Alameda Point. Based on those studies and surveys, the DON prepared a biological assessment that was used to support a consultation with the USFWS in accordance with the ESA. No special-status species or their habitat has been identified at the response area. Most of the response area is covered by pavement. Although habitat that may support special-status species exists within the response area, no recent records indicate these species occur at the site. Additionally, it is unlikely they will occur at the site because of historical use and disturbances.

CFGF Section 3511 (added by Statute 1970, ch. 1036, Part 1848, Section 4) provides that it is unlawful to take or possess any of the following fully protected birds:

- American peregrine falcon
- Brown pelican
- California black rail
- California clapper rail
- California condor
- California least tern
- Golden eagle
- Greater sandhill crane
- Light-footed clapper rail
- Southern bald eagle
- Trumpeter swan
- White-tailed kite
- Yuma clapper rail

The Brown pelican and California least tern are known to occur on or near this site. CFGF Sections 3503 and 3503.5 prohibit the take, possession, or needless destruction of the nest or eggs of any bird (including birds of prey), except as otherwise provided by this code or any regulation made pursuant thereto. Additionally, CFGF Section 3800 prohibits the take of non-game birds, except in accordance with regulations of the commission, or when related to mining operations with a mitigation plan approved by the department. To prevent direct impacts to any special-status species, an environmental resource survey will be conducted by a qualified wildlife biologist not more than 48 hours prior to the start of field activities to confirm that no federally listed or state-listed species are residing within the limits of the project activity areas. Biological monitoring will be conducted during field activities to confirm that no taking of fully protected birds occurs.

### **California Coastal Act of 1976**

The California Coastal Act is codified at Public Resources Code (Cal. Pub. Res. Code) Sections 30000–30900 and CCR Title 14, Sections 13001 et seq. These sections regulate activities associated with development to control direct significant impacts on coastal waters and to protect state and national interests in California coastal resources. Because federal lands are specifically excluded from the definition of coastal zone, the California Coastal Act is not applicable to IR Sites 5 and 10 but the following substantive requirements of protection and

expansion of public access to the shoreline and recreation opportunities (Cal. Pub. Res. Code Sections 30210–30224) are evaluated further as a relevant and appropriate requirement.

### **4.3.3 Action-specific ARARs**

Action-specific ARARs are technology- or activity-based requirements for remedial activities. These requirements are triggered by the particular remedial activities conducted at the site.

#### **4.3.3.1 Federal Action-specific ARARs**

##### **Federal RCRA Hazardous Waste Storage ARARs**

This removal action is intended to solely address radioactive contamination; however, chemical contamination may also be present and therefore RCRA requirements could potentially be applicable. Wastes will be characterized for chemical contamination and managed in accordance with the requirements below.

Storage of hazardous waste in stockpiles or containers during a response action and transport and disposal may be subject to RCRA and/or state requirements, as follows:

- Federal accumulation regulations (22 CCR 66262.10 [a], 66262.11, 66264.13[a] and (b), and 66262.34). The generator of waste shall determine if the waste is hazardous. If so, waste accumulated on site, in tanks and containers, for 90 days or less is subject to storage requirements. The requirements include labeling, drip pads, and other storage requirements.
- Container storage (22 CCR 66264.171–.175[a] and [b], and 66261.177-.178). Hazardous waste container storage requirements address use and management of containers, compatibility of wastes with containers, management of containers, inspections requirements, and secondary contaminant requirements.
- If wastes are determined to be hazardous, based on the hazardous waste determination described under the federal chemical-specific ARARs discussion, substantive requirements of 22 CCR 66262.34 (pertaining to hazardous waste accumulation) will be applicable. The TCRA involves the stockpiling of excavated materials while waste transportation and profiling are coordinated. Excavated material will be stockpiled in accordance with the applicable substantive provisions of 40 CFR 264.554(d)(1)(i-ii), (d)(2), (e), (f), (h), (i), (j) and (k). Closure requirements in 66264.258(a) and (b) will be met upon completion of the TCRA.

##### **Radioactive Waste Storage and Control**

The storage requirements at 10 CFR Section 20.1801 state that “The licensee shall secure from unauthorized removal or access licensed materials that are stored in controlled or unrestricted areas.” The control requirements at 10 CFR Section 20.1802 state that “The licensee shall control and maintain constant surveillance of licensed material that is in a controlled or unrestricted area and that is not in storage.” These requirements are ARARs if storage of

materials or waste similar to NRC-regulated materials or waste is in a controlled or unrestricted area. A “controlled area” is an area outside a restricted area, but inside the site boundary, to which access can be limited by the licensee for any reason. An “unrestricted area” is an area to which access is neither limited nor controlled by the licensee. Controlled and unrestricted areas are defined in 10 CFR Part 1003.

### **Discharge of Radiological Waste into the Sanitary Sewer System**

The NRC standards for protection against radiation for waste disposal are at 10 CFR Section 20.2001–20.2006. Under 10 CFR Section 20.2001(a), disposal of regulated material is allowed only by: 1) transfer to an authorized recipient; 2) decay in storage; or 3) release in effluents within the limits in Section 20.1301 or as authorized under Section 20.2002, 20.2003, or 20.2004 (described below).

Under 10 CFR Section 20.2003, radioactive material may be discharged into a sanitary sewer system if each of the following conditions is satisfied:

- (1) the material is readily soluble (or is readily dispersible biological material) in water
- (2) the quantity of licensed or other radioactive material that is released into the sewer in 1 month divided by the average monthly volume of water released into the sewer does not exceed the concentration listed in Table 3 of Appendix B to 10 CFR Part 20
- (3) if more than one radionuclide is released, the following conditions must also be satisfied:
  - (i) the discharger shall determine the fraction of the limit in Table 3 of Appendix B to Part 20 represented by discharges into sanitary sewerage by dividing the actual monthly average concentration of each radionuclide released into the sewer by the concentration of that radionuclide listed in Table 3 of Appendix B to 10 CFR Part 20
  - (ii) the sum of the fractions for each radionuclide required by paragraph (a)(3)(i) of this section does not exceed unity
- (4) the total quantity of licensed and other radioactive material that the discharger releases into the sanitary sewer system in a year does not exceed 5 curies (185 gigabecquerels [GBq]) of hydrogen-3, 1 curie (37 GBq) of carbon-14, and 1 curie (37 GBq) of all other radioactive materials combined

### **Clean Water Act and State NPDES General Permit for Discharges of Stormwater Runoff Associated with Construction Activity**

NPDES stormwater discharge requirements, 40 CFR Part 122.26 (b)(15)(i) and Exhibit 1 thereto, establish stormwater requirements for construction sites over 1 acre in size. This is relevant and

appropriate for this TCRA, and a SWMP will be prepared to prevent uncontrolled stormwater runoff into the Bay during the removal action.

The DON has determined that Section 121 (e)(1) of CERCLA and the corresponding provision in the NCP (40 CFR 300.400[e][1]) apply to the discharge of stormwater from the removal action area and that an NPDES permit (either general or individual) is not required for that discharge. However, the DON will comply with the substantive provisions of the NPDES General Permit for Discharges of Storm Water Runoff Associated with Construction Activity (SWRCB Order No. 99-08) identified by the State of California as “To Be Considered” guidance for compliance with the federal CWA and state of California water quality requirements identified as water quality ARARs in this AM. Associated reporting and record keeping are considered procedural and therefore are not substantive.

The DON will also comply with the following substantive provisions of the General Permit: substantive requirements for development and implementation of BMPs, substantive requirements for the content of a SWMP, and substantive technical monitoring and analytical requirements (location and frequency of sample collection, parameters to be tested, and analytical methodologies). Compliance with these substantive requirements will be documented in an appendix to the Work Plan titled “Stormwater Management Plan.” This plan will include descriptions of the BMPs to be implemented during the removal action and address substantive SWMP requirements.

#### **4.3.3.2 State Action-specific ARARs**

##### **California Health and Safety Code, Division 26, Air Resources**

Fugitive dust may be generated during the excavation and handling of the contaminated soil. The pertinent substantive provisions of the Bay Area Air Quality Management District Regulation 6-301 are considered an ARAR for these activities. No visible dust shall be allowed to leave the site.

#### **4.3.4 Project Schedule**

The project schedule includes preparatory activities, mobilization, pre-construction activities, construction activities, demobilization, and final report preparation. Removal activities have been scheduled to commence upon approval of the TCRA Work Plan and procurement of the necessary equipment, materials, and subcontracting services. The overall project schedule is estimated to last 18 months. The preparatory activities are estimated to be completed within 6 months, removal activities associated with this removal action will last for 6 months, and post-removal report preparation will be completed in 6 months following completion of the removal action.

#### 4.4 ESTIMATED COSTS

The DON has made a present-worth estimate of the removal action costs. The estimated costs are preliminary and include the costs for disposal of radiologically contaminated soil and debris.

##### Direct Costs

Mobilization/Demobilization	\$96,500
Sampling, Data Validation, and Combined Date Mgmt.	\$482,000
Transport and Disposal of Waste	\$2,640,000*
Project Infrastructure, Construction Mgmt., and Procurement	\$1,680,000
Excavation and Screening	\$3,016,000
Installation of Storm Drain and Sewer and Site Restoration	\$897,000

##### Indirect Costs

Work Plan, AM, Post Construction Report, and Land and Geophysical Reports	\$300,000
Regulatory Interaction, and Institutional Controls	\$30,000
<b>Subtotal Direct and Indirect Costs</b>	<b>\$9,141,500</b>
<b>Fee (10%)</b>	<b>\$914,150</b>
<b>Contingency (20%)</b>	<b>\$1,828,300</b>
<b>Estimated Total Costs</b>	<b>\$11,883,950</b>

\* Assuming 5 percent of the total waste will be low-level radioactive waste. The remaining will be non-hazardous waste that can be disposed of at a CERCLA Class II level landfill.

## **5.0 EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN**

If action should be delayed or not taken, exposure of human populations to low-level radiological materials may occur. Contamination may spread from IR Sites 5 and 10 at Alameda Point to nearby areas from stormwater runoff and other erosion mechanisms. Migration of radioactive contamination could result in an increased health risk to local populations because of prolonged exposure to low-level radioactive materials.

## **6.0 PUBLIC INVOLVEMENT**

This document will be added to the Administrative Record (Appendix A) and will be made available for public review at the locations noted in Section 6.1.

### **6.1 PUBLIC INFORMATION**

For a complete record of activities associated with this TCRA, documents will be contained in information repositories that are located at:

- 1) Alameda Main Public Library  
1550 Oak Street  
Alameda, California 94501
  
- 2) Alameda Point  
950 West Mall Square  
Building 1, Rooms 240 and 241  
Alameda, California 94501

The complete Administrative Record is located at 937 Harbor Drive, Building 1, 3<sup>rd</sup> Floor, San Diego, California, and is maintained by Ms. Diane Silva, Naval Facilities Engineering Command, Southwest, Administration Record Manager, (619) 532-3676.

### **6.2 PUBLIC PARTICIPATION**

To encourage local participation in the hazardous waste cleanup program at Alameda Point, the DON established a Restoration Advisory Board (RAB). This board is a citizen-based committee representing local community interests that meets monthly to discuss environmental cleanup issues. RAB meeting agenda, minutes, and presentation materials are included in the Administrative Record for public review.

A notice of availability of the administrative record file and a brief description of the TCRA will be published in the local newspapers. A 30-day comment period will be held for the public to respond and a written response to comments will be prepared. Additionally, the removal actions at IR Sites 5 and 10 will be discussed at RAB meetings. Additional community meetings may also be scheduled to inform the public about the removal actions; however, none are currently scheduled. If held, meetings will be advertised locally in an effort to encourage public attendance and participation.

## **7.0 OUTSTANDING POLICY ISSUES**

There are no outstanding policy issues with regard to the proposed TCRA.

## 8.0 RECOMMENDED ACTIONS

To date, the DON has not acquired evidence identifying other potentially responsible parties (PRPs) at this site. However, information acquired in the future, including, but not limited to, information acquired during the implementation of this TCRA or future response actions at this site could result in the identification of other PRPs.

This AM was prepared in accordance with current EPA and DON guidance documents for TCRAs under CERCLA. The purpose of this AM is to identify removal actions to radioactive contamination associated with the storm drain and sewer lines within IR Sites 5 and 10 at Alameda Point.

The proposed action is removal of radiologically impacted storm drain and sewer lines, followed by appropriate off-site disposal at a fully permitted disposal facility. The storm drain lines will be restored. This alternative will provide a high degree of protection for human health and the environment, does not have significant administrative or technical constraints, and is not cost prohibitive. This decision document represents the selected removal action for the storm drain and sewer lines located in IR Sites 5 and 10, within OU-2C, at Alameda Point located in Alameda, California, developed in accordance with CERCLA, as amended, and is consistent with the NCP. This decision is based on the Administrative Record Index for the site, which is found in Appendix A.



6-13-08  
Date

George Patrick Brooks  
Base Realignment and Closure Environmental Coordinator,  
Base Realignment and Closure Program Management Office West  
Department of the Navy

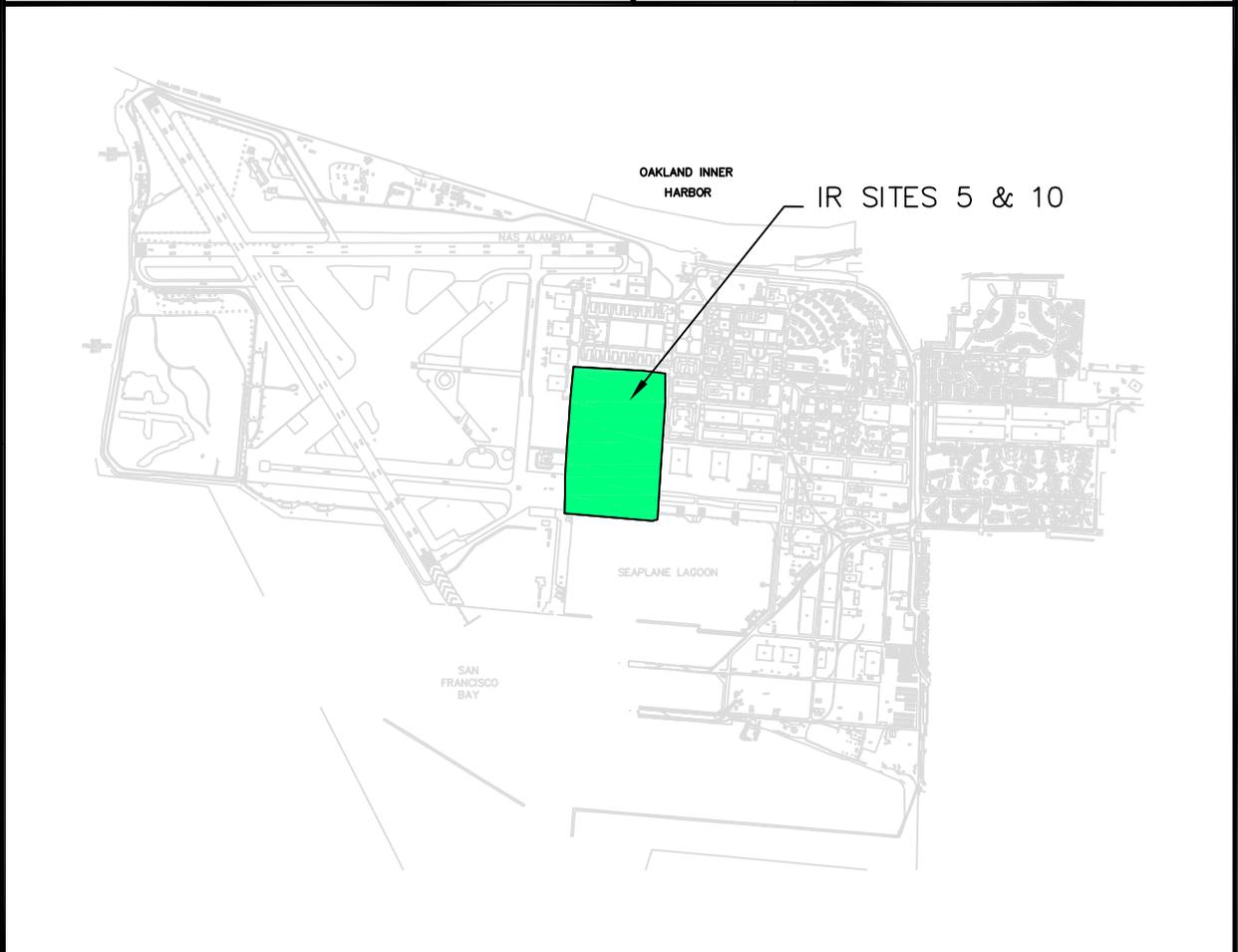
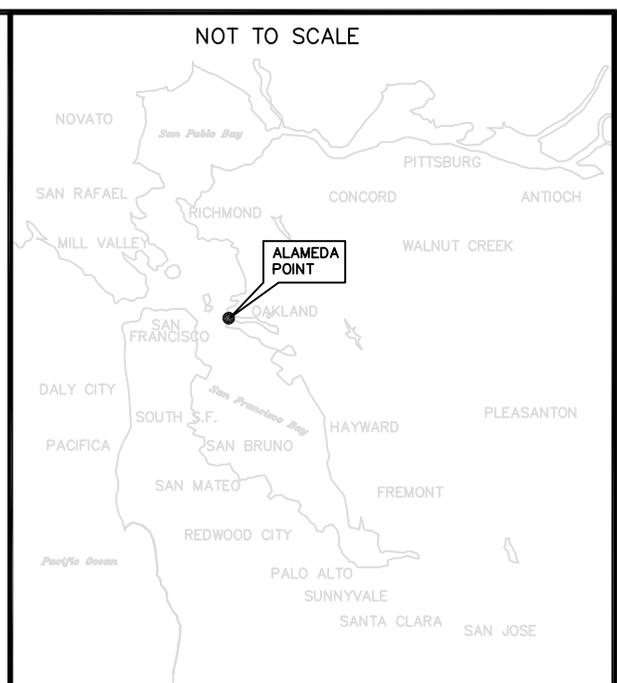
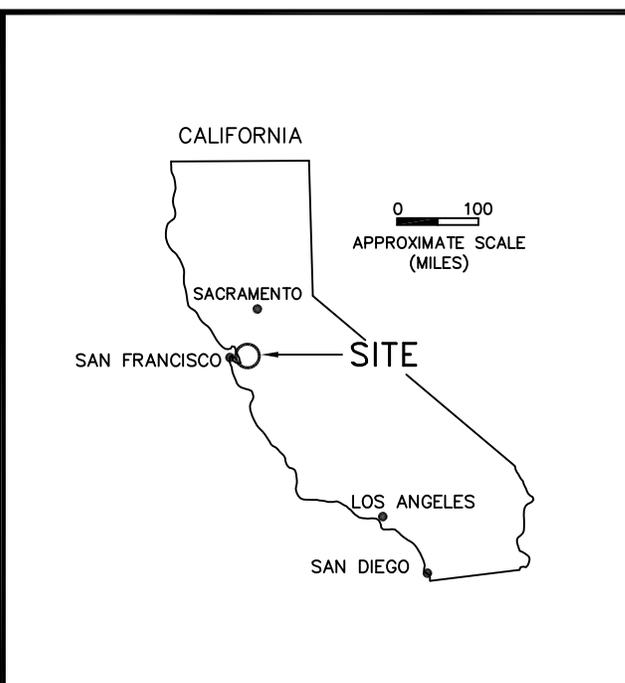
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## **FIGURES**

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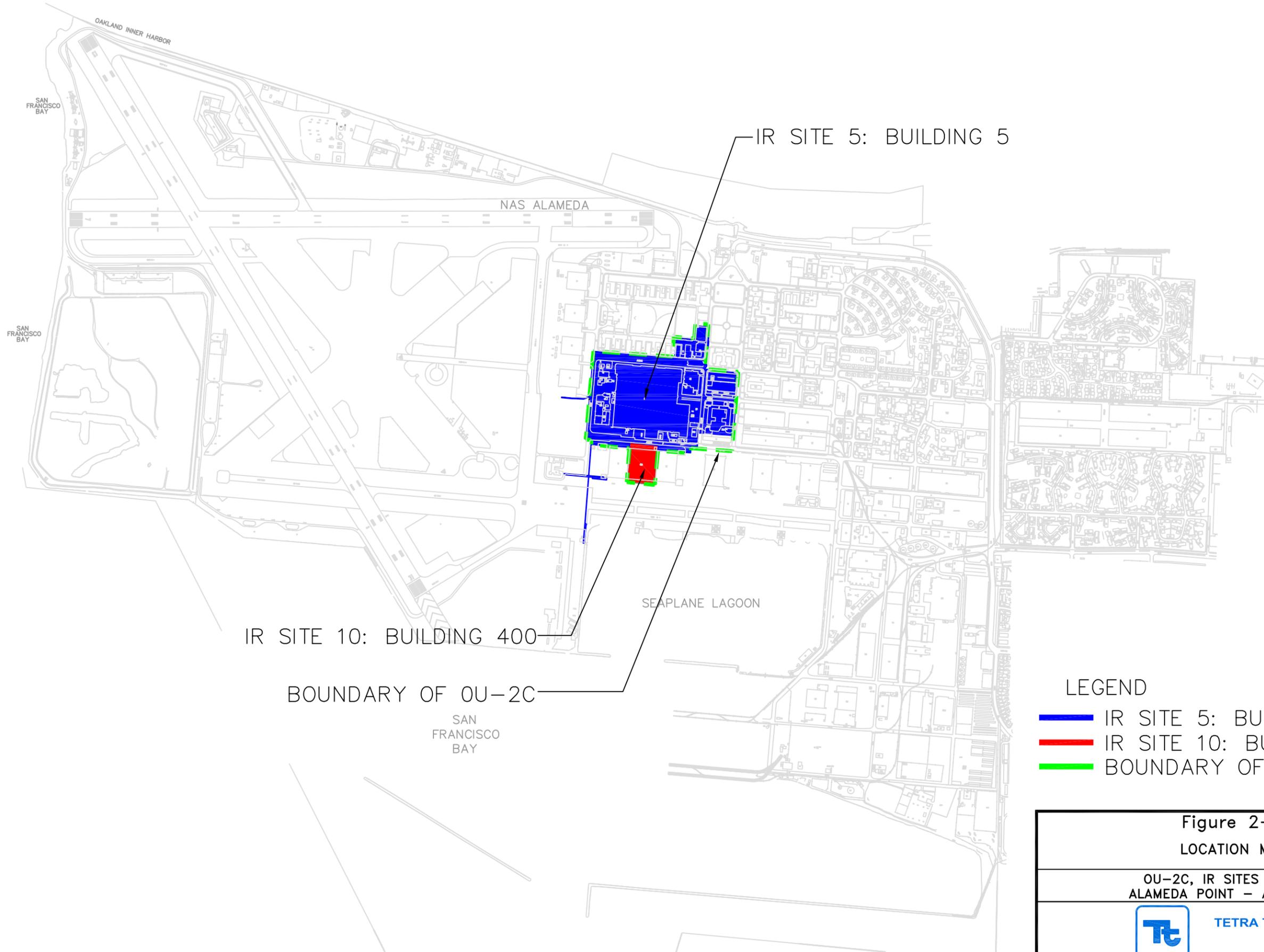
Figure 2-1  
 SITE VICINITY MAP  
 IR SITES 5 AND 10  
 ALAMEDA POINT - ALAMEDA, CA



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- LEGEND
- █ IR SITE 5: BUILDING 5
  - █ IR SITE 10: BUILDING 400
  - █ BOUNDARY OF OU-2C

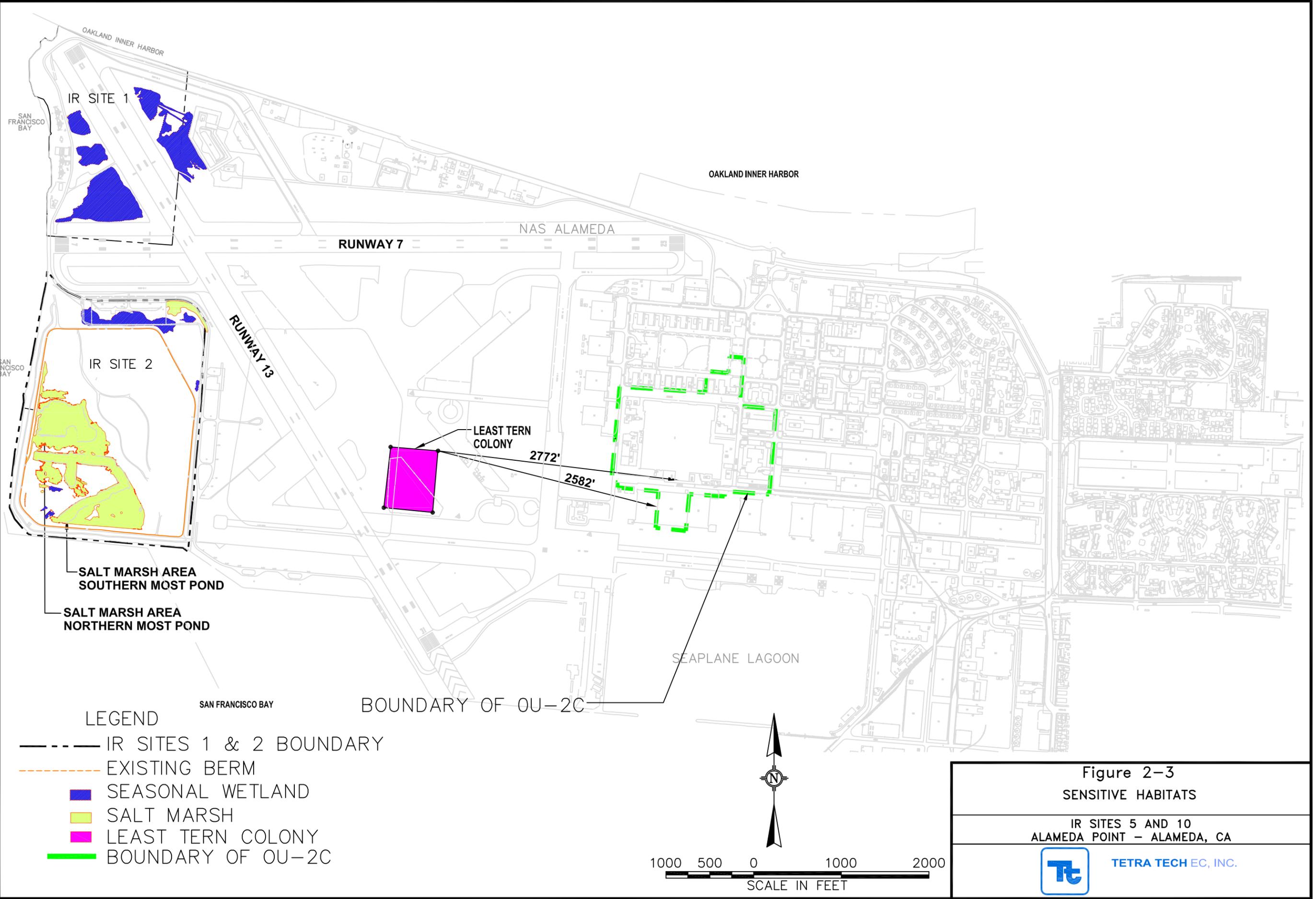
**Figure 2-2**  
 LOCATION MAP  
 OU-2C, IR SITES 5 AND 10  
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- LEGEND**
- IR SITES 1 & 2 BOUNDARY
  - - - EXISTING BERM
  - SEASONAL WETLAND
  - SALT MARSH
  - LEAST TERN COLONY
  - - - BOUNDARY OF OU-2C

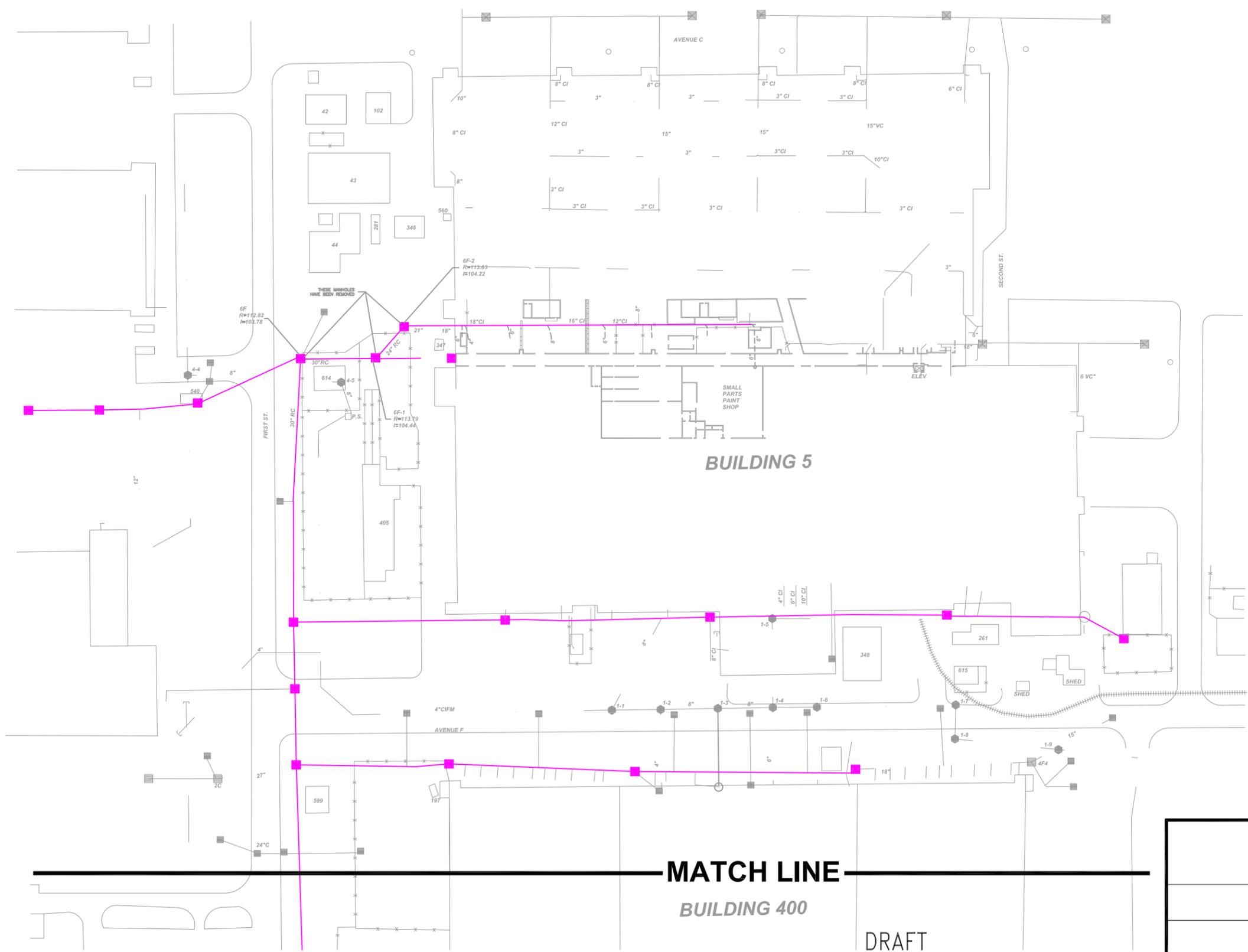
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**SENSITIVE HABITATS**  
 IR SITES 5 AND 10  
 ALAMEDA POINT - ALAMEDA, CA



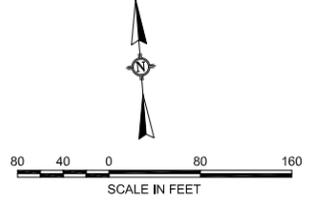
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- LEGEND**
- STORM DRAIN TO BE REMOVED AND REPLACED
  - CATCH BASIN
  - SANITARY SEWER MANHOLE
  - STORM DRAIN
  - INDUSTRIAL WASTE LINE
  - INDUSTRIAL WASTE MANHOLE
  - P.S.
  - VALVE
  - VALVE PIT
  - CATCH BASIN
  - CLEAN OUT
  - STORM DRAIN MANHOLE
  - 4F-1
  - C** CONCRETE
  - CI** CAST IRON
  - VC** VITRIFIED CLAY
  - RC** REINFORCED CONCRETE
  - SS** SANITARY SEWER
  - SSMH** SANITARY SEWER MANHOLE
  - SDMH** STORM DRAIN MANHOLE



**MATCH LINE**  
 BUILDING 400

Figure 4-1  
 SHEET 1 OF 2  
 STORM DRAIN SYSTEM  
 OU-2C, IR SITES 5 AND 10  
 ALAMEDA POINT - ALAMEDA, CA

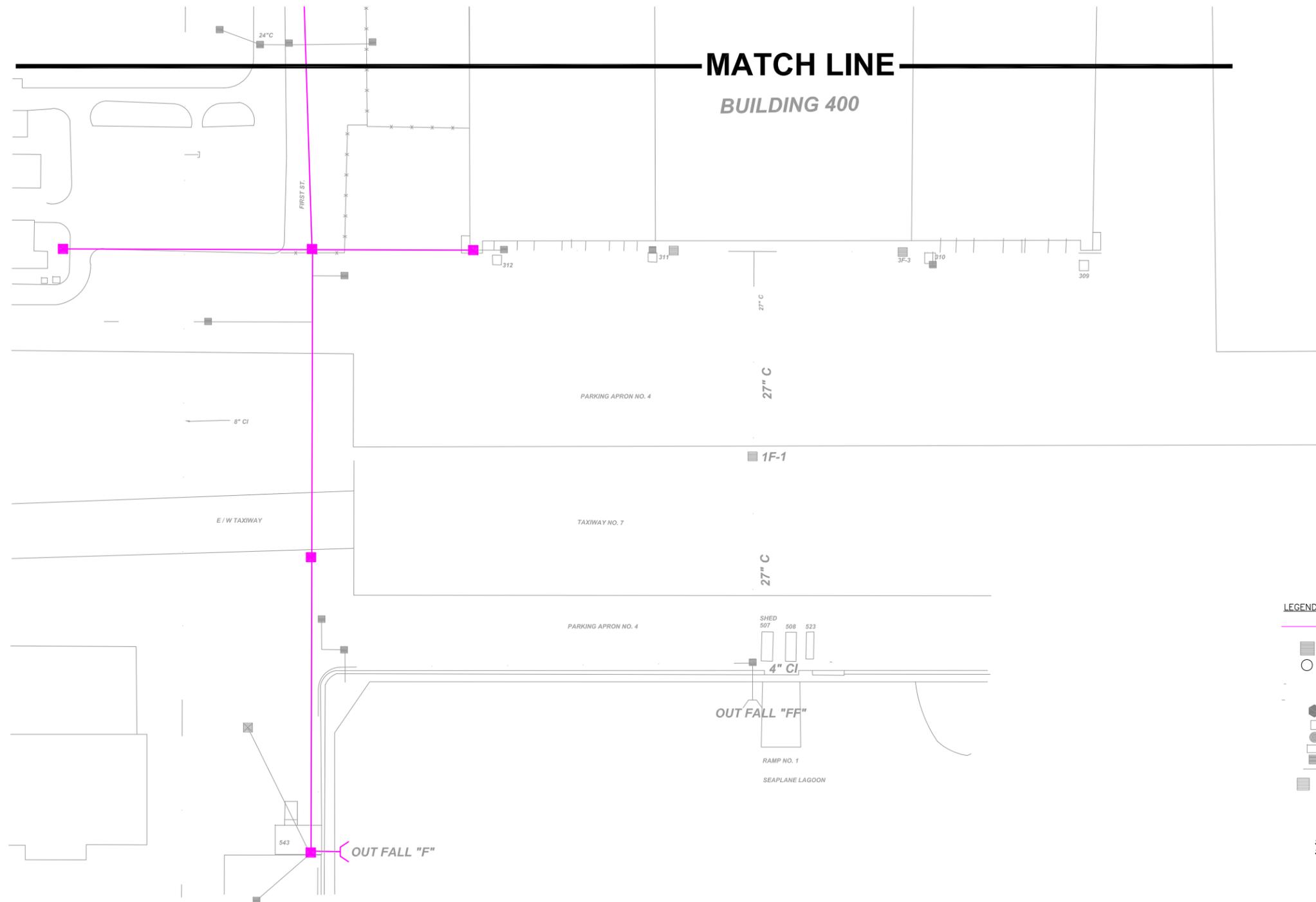
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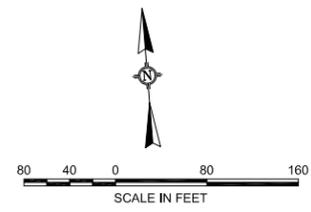


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- LEGEND**
- STORM DRAIN TO BE REMOVED AND REPLACED
  - CATCH BASIN
  - SANITARY SEWER MANHOLE
  - STORM DRAIN
  - INDUSTRIAL WASTE LINE
  - INDUSTRIAL WASTE MANHOLE
  - P.S. PUMP STATION
  - VALVE
  - VALVE PIT
  - CATCH BASIN
  - CLEAN OUT
  - STORM DRAIN MANHOLE
  - C** CONCRETE
  - CI** CAST IRON
  - VC** VITRIFIED CLAY
  - RC** REINFORCED CONCRETE
  - SS** SANITARY SEWER
  - SSMH** SANITARY SEWER MANHOLE
  - SDMH** STORM DRAIN MANHOLE



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NOT ISSUED FOR  
CONSTRUCTION

Figure 4-1  
 SHEET 2 OF 2  
 STORM DRAIN SYSTEM  
 OU-2C, IR SITES 5 AND 10  
 ALAMEDA POINT - ALAMEDA, CA



**TETRA TECH EC, INC.**

**APPENDIX A**  
**ADMINISTRATIVE RECORD INDEX**

ALAMEDA POINT NAS

DRAFT ADMINISTRATIVE RECORD FILE INDEX - UPDATE (SORTED BY RECORD DATE/RECORD NUMBER)

DOCUMENTS RELATED TO SITES 5 AND 10 AND BLDGS. 5 AND 400

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #						CD No.	— FRC Box No(s)—
N00236 / 000198	11-24-1999	ECOLOGY AND ENVIRONMENT, INC.	INITIAL ASSESSMENT STUDY (IAS)	ADMIN RECORD	001	FRC - PERRIS	181-03-0179	BOX 0010
NEESA 13-014	<b>04-01-1983</b>				002	SW071221-04	41074200	
REPORT	NONE				003	IMAGED		
N62474-82-C-8272	00.0	NAVFAC - EFA			004	APNT_027		
00176		WEST			005			
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UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.					Location	FRC Accession No.
Record Type	Record Date	Author						SWDIV Box No(s)	FRC Warehouse
Contr./Guid. No.	CTO No.	Recipient Affil.		Subject	Classification	Sites		CD No.	FRC Box No(s)——
Approx. # Pages	EPA Cat. #	Recipient							
N00236 / 000212	11-24-1999	CANONIE		FINAL DRAFT SAMPLING PLAN (SP),	ADMIN RECORD	001		SOUTHWEST	
NONE	<b>08-01-1988</b>	ENVIRONMENTAL		REMEDIAL INVESTIGATION/FEASIBILITY		002		DIVISION - BLDG. 1	
REPORT	NONE			STUDY (RI/FS) [VOLUME 1 OF 8] {***SEE		003		SW061211-01	
NONE	00.0	NAVFAC - EFA		COMMENTS}		004		IMAGED	
00215		WEST				005		APNT_019	
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UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.							
Record Type	Record Date	Author						Location	FRC Accession No.	
Contr./Guid. No.	CTO No.	Recipient Affil.		Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse	FRC Box No(s)	
Approx. # Pages	EPA Cat. #	Recipient					CD No.			
N00236 / 000214	11-24-1999	CANONIE		FINAL DRAFT HEALTH AND SAFETY PLAN	ADMIN RECORD	001	FRC - PERRIS	181-03-0179	BOX 0011	
NONE	<b>08-01-1988</b>	ENVIRONMENTAL		(HASP), REMEDIAL		002	SW061211-01	41074200		
REPORT	NONE			INVESTIGATION/FEASIBILITY STUDY (RI/FS)		003	IMAGED			
NONE	00.0	NAVFAC - EFA		[VOLUME 2 OF 8] {INCLUDES APPENDICES A		004	APNT_019			
00066		WEST		THROUGH C} (**SEE COMMENTS)		005				
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Record Type	Record Date	Author						Location		FRC Accession No.			
Contr./Guid. No.	CTO No.	Recipient Affil.		Subject		Classification	Sites	SWDIV Box No(s)		FRC Warehouse			
Approx. # Pages	EPA Cat. #	Recipient						CD No.		FRC Box No(s)			
N00236 / 000787	11-24-1999	CANONIE		FINAL DRAFT AIR SAMPLING PLAN,		ADMIN RECORD	001	FRC - PERRIS		181-03-0179	BOX 0018		
NONE	<b>08-01-1988</b>	ENVIRONMENTAL		REMEDIAL INVESTIGASTION/FEASIBILITY			002	SW061211-02		41074200			
REPORT	DO 001 & DO			STUDY (RI/FS) [VOLUME 1B OF 8] {***SEE			003	IMAGED					
N62474-85-D-5620	002	NAVFAC - EFA		COMMENTS}			004	APNT_019					
00027	00.0	WEST					005						
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Record Type	Record Date	Author								Location		FRC Accession No.	
Contr./Guid. No.	CTO No.	Recipient Affil.								SWDIV Box No(s)		FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient		Subject		Classification	Sites			CD No.		FRC Box No(s)---	
N00236 / 000258	11-24-1999	CANONIE		FINAL DRAFT AIR SAMPLING PLAN,		ADMIN RECORD	001			FRC - PERRIS		181-03-0179	BOX 0012
NONE	<b>09-01-1988</b>	ENVIRONMENTAL		REMEDIAL INVESTIGATION/FEASIBILITY			002			SW061211-01		41074200	
REPORT	DO 001 & DO			STUDY (RI/FS) [VOLUME 1B OF 8] {***SEE			003			IMAGED			
N62474-85-D-5620	002	NAVFAC - EFA		COMMENTS}			004			APNT_019			
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UIC No. / Rec. No.

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FRC Warehouse

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UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.										
Record Type	Record Date	Author								Location		FRC Accession No.	
Contr./Guid. No.	CTO No.	Recipient Affil.								SWDIV Box No(s)		FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient		Subject		Classification	Sites			CD No.		FRC Box No(s)——	
N00236 / 000259	11-24-1999	CANONIE		FINAL DRAFT PROJECT MANAGEMENT		ADMIN RECORD	001			FRC - PERRIS		181-03-0179	BOX 0012
NONE	<b>11-01-1988</b>	ENVIRONMENTAL		PLAN/SCHEDULE, REMEDIAL			002			SW061211-01		41074200	
REPORT	DO 005			INVESTIGATION/FEASIBILITY STUDY (RI/FS)			003			IMAGED			
N62474-85-D-5620	00.0	NAVFAC - EFA		[VOLUME 5 OF 8] {***SEE COMMENTS}			004			APNT_019			
00038		WEST					005						
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UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.										
Record Type	Record Date	Author								Location		FRC Accession No.	
Contr./Guid. No.	CTO No.	Recipient Affil.								SWDIV Box No(s)		FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient		Subject		Classification	Sites			CD No.		FRC Box No(s)——	
N00236 / 000260	11-24-1999	CANONIE		FINAL DRAFT DATA MANAGEMENT PLAN,		ADMIN RECORD	001			FRC - PERRIS		181-03-0179	BOX 0012
NONE	<b>12-01-1988</b>	ENVIRONMENTAL		REMEDIAL INVESTIGATION/FEASIBILITY			002			SW061211-01		41074200	
REPORT	DO 005			STUDY (RI/FS) [VOLUME 6 OF 8] {***SEE			003			IMAGED			
N62474-85-D-5620	00.0	NAVFAC - EFA		COMMENTS}			004			APNT_019			
00085		WEST					005						
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Record Type	Record Date	Author						Location	FRC Accession No.				
Contr./Guid. No.	CTO No.	Recipient Affil.						SWDIV Box No(s)	FRC Warehouse				
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites			CD No.	FRC Box No(s)				
N00236 / 000261	11-24-1999	CLEMENT	FINAL DRAFT PUBLIC HEALTH AND	ADMIN RECORD	001			FRC - PERRIS	181-03-0179	BOX 0013			
NONE	<b>12-01-1988</b>	ASSOCIATES	ENVIRONMENTAL EVALUATION PLAN		002			SW061211-01	41074200				
REPORT	NONE		(PHEE), REMEDIAL		003			IMAGED					
NONE	00.0	NAVFAC - EFA	INVESTIGATION/FEASIBILITY STUDY (RI/FS)		004			APNT_019					
00345		WEST	[VOLUME 7 OF 8] {MISSING SECTION 3}		005								
			(**SEE COMMENTS)		006								
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UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.										
Record Type	Record Date	Author								Location		FRC Accession No.	
Contr./Guid. No.	CTO No.	Recipient Affil.								SWDIV Box No(s)		FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient		Subject		Classification	Sites			CD No.		FRC Box No(s)——	
N00236 / 000262	11-24-1999	CANONIE		FINAL DRAFT FEASIBILITY STUDY (FS)		ADMIN RECORD	001			FRC - PERRIS		181-03-0179	BOX 0013
NONE	<b>12-01-1988</b>	ENVIRONMENTAL		PLAN, REMEDIAL			002			SW061211-01		41074200	
REPORT	DO 005			INVESTIGATION/FEASIBILITY STUDY (RI/FS)			003			IMAGED			
N62474-85-D-5620	00.0	NAVFAC - EFA		[VOLUME 8 OF 8] {***SEE COMMENTS}			004			APNT_019			
00078		WEST					005						
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UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.										
Record Type	Record Date	Author								Location		FRC Accession No.	
Contr./Guid. No.	CTO No.	Recipient Affil.								SWDIV Box No(s)		FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites					CD No.		FRC Box No(s)	
N00236 / 000274	11-24-1999	CANONIE	FINAL HEALTH AND SAFETY PLAN (HASP),	ADMIN RECORD	001					FRC - PERRIS		181-03-0179	BOX 0013
NONE	<b>12-01-1988</b>	ENVIRONMENTAL	REMEDIAL INVESTIGATION/FEASIBILITY		002					SW061211-01		41074200	
REPORT	DO 001 & DO		STUDY (RI/FS) [VOLUME 2 OF 8] {INCLUDES		003					IMAGED			
N62474-85-D-5620	002	NAVFAC - EFA	APPENDICES A THROUGH H) (**SEE		004					APNT_019			
00123	00.0	WEST	COMMENTS)		005								
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UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse	FRC Box No(s)
Approx. # Pages	EPA Cat. #	Recipient				CD No.		
N00236 / 000275	11-24-1999	CANONIE	FINAL AIR SAMPLING PLAN, REMEDIAL	ADMIN RECORD	001	FRC - PERRIS	181-03-0179	BOX 0013
NONE	<b>12-01-1988</b>	ENVIRONMENTAL	INVESTIGATION/FEASIBILITY STUDY (RI/FS)	INFO REPOSITORY	002	SW061211-01	41074200	
REPORT	DO 001 & 002		[VOLUME 1B OF 8] {***SEE COMMENTS}		003	IMAGED		
N62474-85-D-5620	00.0	NAVFAC - EFA			004	APNT_019		
00034		WEST			005			
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UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.										
Record Type	Record Date	Author								Location		FRC Accession No.	
Contr./Guid. No.	CTO No.	Recipient Affil.								SWDIV Box No(s)		FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient		Subject		Classification	Sites			CD No.		FRC Box No(s)---	
N00236 / 000291	11-24-1999	CANONIE		SAMPLING PLAN (SP), REMEDIAL		ADMIN RECORD	001			FRC - PERRIS		181-03-0179	BOX 0013
NONE	<b>01-01-1989</b>	ENVIRONMENTAL		INVESTIGATION/FEASIBILITY STUDY (RI/FS)			002			SW061211-01		41074200	
REPORT	DO 001 & DO			[VOLUME 1 OF 8] (REVISED VERSION)			003			IMAGED			
N62474-85-D-5620	002	NAVFAC - EFA		[***SEE COMMENTS]			004			APNT_019			
00212	00.0	WEST					005						
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Approx. # Pages	EPA Cat. #						CD No.	FRC Box No(s)---
N00236 / 000322	11-24-1999	CANONIE	FINAL PROJECT MANAGEMENT	ADMIN RECORD	001	FRC - PERRIS	181-03-0179	BOX 0014
NONE	<b>02-01-1989</b>	ENVIRONMENTAL	PLAN/SCHEDULE, REMEDIAL	INFO REPOSITORY	002	SW061211-01	41074200	
REPORT	NONE		INVESTIGATION/FEASIBILITY STUDY (RI/FS)		003	IMAGED		
NONE	00.0	NAVFAC - EFA	[VOLUME 5 OF 8] (SEE AR #322 - EFAW		004	APNT_019		
00045		WEST	TRANSMITTAL LETTER BY R.		005			
			SERAYDARIAN) {***SEE COMMENTS}		006			
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Approx. # Pages	EPA Cat. #	Recipient		Subject		Classification	Sites			CD No.		FRC Box No(s)---	
N00236 / 000351	11-24-1999	CANONIE		REVISED FINAL HEALTH AND SAFETY PLAN		ADMIN RECORD	001			FRC - PERRIS		181-03-0179	BOX 0014
NONE	<b>05-01-1989</b>	ENVIRONMENTAL		(HASP), REMEDIAL			002			SW061211-02		41074200	
REPORT	DO 001 & DO			INVESTIGATION/FEASIBILITY STUDY (RI/FS)			003			IMAGED			
N62474-85-D-5620	002	NAVFAC - EFA		[VOLUME 2 OF 8] {INCLUDES APPENDICES A			004			APNT_019			
00154	00.0	WEST		THROUGH J} (**SEE COMMENTS)			005						
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Approx. # Pages	EPA Cat. #	Recipient		Subject		Classification	Sites			CD No.		FRC Box No(s)---	
N00236 / 000361	11-24-1999	CANONIE		DATA MANAGEMENT PLAN, REMEDIAL		ADMIN RECORD	001			FRC - PERRIS		181-03-0179	BOX 0014
NONE	<b>05-01-1989</b>	ENVIRONMENTAL		INVESTIGATION/FEASIBILITY STUDY (RI/FS)		INFO REPOSITORY	002			SW061211-02		41074200	
REPORT	NONE			[VOLUME 6 OF 8] {***SEE COMMENTS}			003			IMAGED			
NONE	00.0	NAVFAC - EFA					004			APNT_019			
00086		WEST					005						
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UIC No. / Rec. No.

Doc. Control No.

Prc. Date

Author Affil.

Record Type

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CTO No.

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CANS C-2 AREA

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UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.							
Record Type	Record Date	Author						Location	FRC Accession No.	
Contr./Guid. No.	CTO No.	Recipient Affil.						SWDIV Box No(s)	FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites		CD No.	FRC Box No(s)		
N00236 / 000371	11-24-1999	CLEMENT	FINAL PRELIMINARY PUBLIC HEALTH AND	ADMIN RECORD	001		FRC - PERRIS	181-03-0179	BOX 0015	
NONE	<b>06-01-1989</b>	ASSOCIATES	ENVIRONMENTAL EVALUATION PLAN		002		SW061211-02	41074200		
REPORT	NONE		(PHEE), REMEDIAL INVESTIGATION		003		IMAGED			
NONE	00.0	NAVFAC - EFA	FEASIBILITY STUDY (RI/FS) [VOLUME 7 OF 8]		004		APNT_019			
00364		WEST	{***SEE COMMENTS}		005					
					006					
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UIC No. / Rec. No.	Prc. Date	Author Affil.						
Doc. Control No.	Record Date	Author					Location	FRC Accession No.
Record Type	CTO No.	Recipient Affil.					SWDIV Box No(s)	FRC Warehouse
Contr./Guid. No.	EPA Cat. #	Recipient	Subject	Classification	Sites		CD No.	FRC Box No(s)---
N00236 / 000780	11-24-1999	CANONIE	REVISED FINAL HEALTH AND SAFETY PLAN	ADMIN RECORD	001		FRC - PERRIS	181-03-0179 BOX 0018
NONE	11-01-1989	ENVIRONMENTAL	(HASP), REMEDIAL	INFO REPOSITORY	002		SW061211-02	41074200
REPORT	DO 008		INVESTIGATION/FEASIBILITY STUDY (RI/FS)		003		IMAGED	
N62474-85-D-5620	00.0	NAVFAC - EFA	[VOLUME 2 OF 8] {INCLUDES APPENDICES A		004		APNT_019	
00178		WEST	THROUGH K} (**SEE COMMENTS)		005			
					006			
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UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.										
Record Type	Record Date	Author								Location		FRC Accession No.	
Contr./Guid. No.	CTO No.	Recipient Affil.								SWDIV Box No(s)		FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites					CD No.		FRC Box No(s)	
N00236 / 000783	11-24-1999	CANONIE	FINAL FEASIBILITY STUDY PLAN (FS),	ADMIN RECORD	001					FRC - PERRIS		181-03-0179	BOX 0018
NONE	<b>01-01-1990</b>	ENVIRONMENTAL	REMEDIAL INVESTIGATION/FEASIBILITY		002					SW061211-02		41074200	
REPORT	DO 005		STUDY (RI/FS) [VOLUME 8 OF 8] {***SEE		003					IMAGED			
N62474-85-D-5620	00.0	NAVFAC - EFA	COMMENTS}		004					APNT_019			
00093		WEST			005								
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Record Type	Record Date	Author								Location		FRC Accession No.	
Contr./Guid. No.	CTO No.	Recipient Affil.								SWDIV Box No(s)		FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites					CD No.		FRC Box No(s)	
N00236 / 000785	11-24-1999	CANONIE	FINAL SAMPLING PLAN (SP), REMEDIAL	ADMIN RECORD	001					FRC - PERRIS		181-03-0179	BOX 0018
NONE	<b>02-01-1990</b>	ENVIRONMENTAL	INVESTIGATION/FEASIBILITY STUDY (RI/FS)	INFO REPOSITORY	002					SW061211-02		41074200	
REPORT	DO 008		[VOLUME 1 OF 8] {***SEE COMMENTS}		003					IMAGED			
N62474-85-D-5620	00.0	NAVFAC - EFA			004					APNT_019			
00283		WEST			005								
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UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse	FRC Box No(s)
Approx. # Pages	EPA Cat. #	Recipient				CD No.		
							CANS C-2 AREA YARD D-13	
N00236 / 000535 NONE CORRESPONDENC E NONE 00002	11-24-1999 <b>11-01-1990</b> NONE 00.0	DHS - BERKELEY M. MALINOWSKI NAVFAC - EFA WEST L. WILLIAMS	REQUEST FOR SOIL SAMPLING OUTSIDE BUILDING 5	ADMIN RECORD	005	FRC - PERRIS SW060309-01 IMAGED APNT_011	181-03-0179 41074200	BOX 0016
N00236 / 000797 REPORT NONE 00024	11-24-1999 <b>12-01-1990</b> NONE 00.0	CANONIE	PHASE 2A ANALYTICAL RESULTS FOR SITE 10, BUILDING 530 RI/FS (ENCLOSURE 7)	REFERENCE	010	FRC - PERRIS SW061211-03 IMAGED APNT_019	181-03-0179 41074200	BOX 0020
N00236 / 000634 TC.A021.10075 MM N68711-00-D-0005 00006	06-13-2003 <b>01-25-1991</b> DO 0021	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	25 JANUARY 1991 PROGRESS REVIEW OF THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) MEETING MINUTES [PORTION OF THE DOCUMENT IS SENSITIVE]	ADMIN RECORD INFO REPOSITORY SENSITIVE	BLDG. 360 BLDG. 5	FRC - PERRIS SW060629-02 IMAGED APNT_007	181-03-0188 41031858	BOX 0013
N00236 / 000603 EFAW SER 1811WW/L2206 CORRESPONDENC E NONE 00009	11-24-1999 <b>03-13-1992</b> NONE 00.0	NAVFAC - EFA WEST L. LEW VARIOUS AGENCIES	SUBMISSION OF PROPOSED ADDITIONAL FIELD WORK AT SITES 4 (BUILDING 360) AND 5 (BUILDING 5) FOR THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) [W/ ENCLOSURE]	ADMIN RECORD	004 005 BLDG. 360 BLDG. 5	FRC - PERRIS SW061120-01 IMAGED APNT_023	181-03-0179 41074200	BOX 0016
N00236 / 001095 NONE CORRESPONDENC E NONE 00002	11-24-1999 <b>04-14-1992</b> NONE 00.0	DTSC - BERKELEY V. LASKY NAVFAC - EFA WEST W. WONG	COMMENTS ON THE PROPOSED ADDITIONAL REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) FIELD WORK AT SITES 4 AND 5	ADMIN RECORD	004 005	FRC - PERRIS SW060309-04 IMAGED APNT_011	181-03-0179 41074200	BOX 0031

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Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 000615	11-24-1999	NAVFAC - EFA	NAVFAC - EFA	SUBMISSION OF RESPONSE TO DTSC	ADMIN RECORD	004	FRC - PERRIS	181-03-0179
EFAW SER	<b>05-05-1992</b>	WEST	WEST	COMMENTS ON PROPOSED ADDITIONAL		005	SW060309-01	BOX 0016
1811WW/L2256	NONE	L. LEW	L. LEW	FIELD WORK AT SITES 4 AND 5 FOR			IMAGED	41074200
RESPONSE	00.0	DTSC - BERKELEY	DTSC - BERKELEY	REMEDIAL INVESTIGATION/FEASIBILITY			APNT_011	
NONE		V. LASKY	V. LASKY	STUDY (RI/FS) [W/ ENCLOSURE]				
00003								
N00236 / 001098	11-24-1999	DTSC - BERKELEY	DTSC - BERKELEY	APPROVAL OF REQUESTED CHANGES FOR	ADMIN RECORD	004	FRC - PERRIS	181-03-0179
NONE	<b>05-07-1992</b>	V. LASKY	V. LASKY	ADDITIONAL FIELD WORK FOR REMEDIAL		005	SW060309-04	BOX 0031
CORRESPONDENC	NONE	NAVFAC - EFA	NAVFAC - EFA	INVESTIGATION/FEASIBILITY STUDY (RI/FS)			IMAGED	41074200
E	00.0	WEST	WEST	AT SITES 4 AND 5			APNT_011	
NONE		W. WONG	W. WONG					
00001								
N00236 / 000720	11-24-1999	PRC	PRC	DRAFT FINAL DATA SUMMARY REPORT -	ADMIN RECORD	004	FRC - PERRIS	181-03-0179
NONE	<b>08-04-1992</b>	ENVIRONMENTAL	ENVIRONMENTAL	BACKGROUND AND TIDAL INFLUENCE		005	SW060223-03	BOX 0017
REPORT	NONE	MANAGEMENT	MANAGEMENT	STUDIES AND ADDITIONAL WORK AT SITES			IMAGED	41074200
N62474-88-D-5086	00.0	G. MUNEKAWA	G. MUNEKAWA	4 AND 5, VOLUME 1 OF 2 (SEE AR #721 -			APNT_012	
00111		NAVFAC -	NAVFAC -	VOLUME 2)				
		SOUTHWEST	SOUTHWEST					
		DIVISION	DIVISION					
N00236 / 000721	11-24-1999	PRC	PRC	DRAFT FINAL DATA SUMMARY REPORT -	ADMIN RECORD	004	FRC - PERRIS	181-03-0179
NONE	<b>08-04-1992</b>	ENVIRONMENTAL	ENVIRONMENTAL	BACKGROUND AND TIDAL INFLUENCE		005	SW060223-03	BOX 0017
REPORT	NONE	MANAGEMENT	MANAGEMENT	STUDIES AND ADDITIONAL WORK AT SITES			IMAGED	41074200
N62474-88-D-5086	00.0	NAVFAC -	NAVFAC -	4 AND 5, VOLUME 2 OF 2 (SEE AR #720 -			APNT_012	
00441		SOUTHWEST	SOUTHWEST	VOLUME 1)				
		DIVISION	DIVISION					
N00236 / 000710	11-24-1999	NAVFAC - EFA	NAVFAC - EFA	SUBMISSION OF DRAFT FINAL DATA	ADMIN RECORD	004	FRC - PERRIS	181-03-0179
EFAW SER	<b>08-06-1992</b>	WEST	WEST	SUMMARY REPORT FOR BACKGROUND	INFO REPOSITORY	005	SW060309-01	BOX 0017
1811GK/L2355	NONE	L. LEW	L. LEW	AND TIDAL INFLUENCE STUDIES AND			IMAGED	41074200
CORRESPONDENC	00.0	DISTRIBUTION	DISTRIBUTION	ADDITIONAL WORK AT SITES 4 AND 5			APNT_011	
E				(W/OUT ENCLOSURE) [SEE AR #720 -				
NONE				VOLUME 1 AND AR #721 - VOLUME 2]				
00003								

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Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)		
N00236 / 000907	11-24-1999	COMMUNITY	COMMENTS ON THE DRAFT FINAL DATA	ADMIN RECORD	004	FRC - PERRIS	181-03-0179	BOX 0028	
NONE	<b>08-27-1992</b>	ADVISORY	SUMMARY REPORT FOR BACKGROUND	SENSITIVE	005	SW060309-04	41074200		
CORRESPONDENC	NONE	COMMITTEE	AND TIDAL INFLUENCE STUDIES AND			IMAGED			
E	00.0	R. HOUGH	ADDITIONAL WORK AT SITES 4 AND 5			APNT_011			
NONE		NAVFAC - EFA	(PORTION OF THE MAILING LIST IS						
00003		WEST	CONFIDENTIAL)						
		L. LEW							
N00236 / 000749	11-24-1999	NAVFAC - EFA	SUBMISSION OF CLARIFICATION ON SITE 5	ADMIN RECORD	005	FRC - PERRIS	181-03-0179	BOX 0017	
EFAW SER	<b>09-16-1992</b>	WEST	(BUILDING 5) ADDITIONAL SAMPLING FOR		BLDG. 5	SW060309-02	41074200		
1811GM/L2409	NONE	L. LEW	THE REMEDIAL			IMAGED			
CORRESPONDENC	00.0	DTSC - BERKELEY	INVESTIGATION/INVESTIGATION/FEASIBILIT			APNT_011			
E		V. LASKY	Y STUDY (RI/FS) [W/ ENCLOSURE]						
NONE									
00003									
N00236 / 000909	11-24-1999	DTSC - BERKELEY	COMMENTS ON THE DRAFT FINAL DATA	ADMIN RECORD	004	FRC - PERRIS	181-03-0179	BOX 0028	
NONE	<b>09-16-1992</b>	V. LASKY	SUMMARY REPORT FOR BACKGROUND	SENSITIVE	005	SW060309-04	41074200		
CORRESPONDENC	NONE	NAVFAC - EFA	AND TIDAL INFLUENCE STUDIES AND			IMAGED			
E	00.0	WEST	ADDITIONAL WORK AT SITES 4 AND 5			APNT_011			
NONE		L. LEW	(PORTION OF THE MAILING LIST IS						
00005			CONFIDENTIAL)						

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.							
Record Type	Record Date	Author						Location	FRC Accession No.	
Contr./Guid. No.	CTO No.	Recipient Affil.						SWDIV Box No(s)	FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites		CD No.	FRC Box No(s)		
N00236 / 000843	11-24-1999	PRC	FINAL DATA SUMMARY REPORT REMEDIAL	ADMIN RECORD	004		FRC - PERRIS	181-03-0179	BOX 0024	
NONE	<b>10-27-1992</b>	ENVIRONMENTAL	INVESTIGATION/FEASIBILITY STUDY (RI/FS)		005		SW060309-02	41074200		
REPORT	00121	MGMT INC.	PHASES 2B AND 3 (VOLUME 1 OF 2 - TEXT)		006		IMAGED			
N62474-88-D-5086	00.0		[SEE AR #844 - VOLUME 2]		007A		APNT_011			
00422		NAVFAC - EFA			007B					
		WEST			008					
					010A					
					011					
					012					
					014					
					015					
					BLDG. 10					
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UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Author	Location	SWDIV Box No(s)	FRC Warehouse	FRC Accession No.	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)	FRC Box No(s)
N00236 / 000844	11-24-1999	PRC	FINAL DATA SUMMARY REPORT REMEDIAL	ADMIN RECORD	004	FRC - PERRIS	181-03-0179	BOX 0024
NONE	<b>10-27-1992</b>	ENVIRONMENTAL	INVESTIGATION/FEASIBILITY STUDY (RI/FS)		005	SW060309-02	41074200	
REPORT	00121	MGMT INC.	PHASES 2B AND 3 (VOLUME 2 OF 2 -		006	IMAGED		
N62474-88-D-5086	00.0	NAVFAC - EFA	APPENDICES A - G) [SEE AR #843 - VOLUME		007A	APNT_011		
00364		WEST	1]		007B			
					008			
					010A			
					011			
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					BLDG. 10			
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					BLDG. 400			
					BLDG. 41			
					BLDG. 459			
					BLDG. 5			
N00236 / 000917	11-24-1999	NAVFAC - EFA	TRANSMITTAL OF DRAFT FINAL ADDENDUM	INFO REPOSITORY	004	FRC - PERRIS	181-03-0179	BOX 0028
EFAW SER	<b>11-05-1992</b>	WEST	SECOND ROUND BACKGROUND		005	SW070427-01	41074200	
1811GM/L3058	NONE	L. LEW	GROUNDWATER SAMPLE RESULTS AND			IMAGED		
CORRESPONDENC	00.0	VARIOUS	RESAMPLE RESULTS {***SEE COMMENTS}			APNT_024		
E		AGENCIES						
NONE								
00003								
N00236 / 000919	11-24-1999	NAVFAC - EFA	SUBMISSION OF RESPONSE TO	ADMIN RECORD	004	FRC - PERRIS	181-03-0179	BOX 0028
EFAW SER	<b>11-18-1992</b>	WEST	COMMENTS ON THE DRAFT FINAL DATA		005	SW060323-02	41074200	
1811GM/L3079	NONE	L. LEW	SUMMARY REPORT BACKGROUND AND			IMAGED		
RESPONSE	00.0	DTSC - BERKELEY	TIDAL INFLUENCE STUDIES AND			APNT_002		
NONE		V. LASKY	ADDITIONAL WORK AT SITES 4 AND 5 (W/					
00007		ENCLOSURE)						

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Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 000921	11-24-1999	NAVFAC - EFA	NAVFAC - EFA	RESPONSE TO COMMENTS ON THE DRAFT	ADMIN RECORD	004	FRC - PERRIS	181-03-0179 BOX 0028
EFAW SER	<b>11-20-1992</b>	WEST	WEST	FINAL DATA SUMMARY REPORT:	SENSITIVE	005	SW060323-02	41074200
1811GM/L3083	NONE	L. LEW	L. LEW	BACKGROUND AND TIDAL INFLUENCE			IMAGED	
RESPONSE	00.0	COMMUNITY	COMMUNITY	STUDIES AND ADDITIONAL WORK AT SITES			APNT_002	
NONE		ADVISORY	ADVISORY	4 AND 5 (PORTION OF THE MAILING LIST IS				
00006		COMMITTEE	COMMITTEE	CONFIDENTIAL)				
		R. HOUGH	R. HOUGH					
N00236 / 000932	11-24-1999	DTSC - BERKELEY	DTSC - BERKELEY	APPROVAL OF DRAFT FINAL DATA	ADMIN RECORD	004	FRC - PERRIS	181-03-0179 BOX 0028
NONE	<b>01-22-1993</b>	T. LANPHAR	T. LANPHAR	SUMMARY REPORT: BACKGROUND AND		005	SW060323-02	41074200
CORRESPONDENC	NONE	NAVFAC - EFA	NAVFAC - EFA	TIDAL INFLUENCE STUDIES AND			IMAGED	
E	00.0	WEST	WEST	ADDITIONAL WORK AT SITES 4 AND 5			APNT_002	
NONE		L. LEW	L. LEW					
00001								
N00236 / 000939	11-24-1999	DTSC - BERKELEY	DTSC - BERKELEY	REVIEW AND APPROVAL OF ADDENDUM,	ADMIN RECORD	004	FRC - PERRIS	181-03-0179 BOX 0028
NONE	<b>02-16-1993</b>	T. LANPHAR	T. LANPHAR	SECOND ROUND BACKGROUND		005	SW070427-01	41074200
CORRESPONDENC	NONE	NAVFAC - EFA	NAVFAC - EFA	GROUNDWATER SAMPLE RESULTS AND			IMAGED	
E	00.0	WEST	WEST	RESAMPLE RESULTS {***SEE COMMENTS}			APNT_024	
NONE		L. LEW	L. LEW					
00001								
N00236 / 001005	11-24-1999	NAVFAC - EFA	NAVFAC - EFA	TRANSMITTAL OF RESPONSES TO NAVY	INFO REPOSITORY	004	FRC - PERRIS	181-03-0179 BOX 0029
EFAW SER	<b>03-02-1993</b>	WEST	WEST	COMMENTS ON SAMPLING RESULTS		005	SW070413-01	41074200
1811GM/L3204	NONE	L. LEW	L. LEW	(W/OUT ENCLOSURES) [SEE AR #721 -			IMAGED	
CORRESPONDENC	00.0	NAVAL AVIATION	NAVAL AVIATION	ENCLOSURE 2] {ENCLOSURE 1 - RESPONSE			APNT_022	
E		DEPOT - ALAMEDA	DEPOT - ALAMEDA	TO NADEP COMMENTS DATED 29 JANUARY				
NONE		COMMANDING	COMMANDING	1993 WAS NOT SUBMITTED TO				
00003		OFFICER	OFFICER	ADMINISTRATIVE RECORDS}				
N00236 / 000645	06-13-2003	TETRA TECH EM	TETRA TECH EM	04 MARCH 1993 TECHNICAL REVIEW	ADMIN RECORD	BLDG. 5	FRC - PERRIS	181-03-0188 BOX 0013
TC.A021.10075	<b>03-04-1993</b>	INC.	INC.	COMMITTEE MEETING MINUTES FOR THE	INFO REPOSITORY	PHASE 1	SW060629-02	41031858
MM	DO 0021			REMEDIAL INVESTIGATION/FEASIBILITY		PHASE 2A	IMAGED	
N68711-00-D-0005		NAVFAC -	NAVFAC -	STUDY (RI/FS)		PHASE 2B	APNT_007	
00004		SOUTHWEST	SOUTHWEST			PHASE 3		
		DIVISION	DIVISION			PHASE 4		
						PHASE 5		
						PHASE 6		

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse	FRC Box No(s)
Approx. # Pages	EPA Cat. #	Recipient				CD No.		
N00236 / 000858	11-24-1999	PRC	DRAFT FINAL REMEDIAL	ADMIN RECORD	001	FRC - PERRIS	181-03-0179	BOX 0027
NONE	<b>09-29-1993</b>	ENVIRONMENTAL	INVESTIGATION/FEASIBILITY STUDY (RI/FS)	INFO REPOSITORY	002	SW061211-03	41074200	
REPORT	00107	MGMT INC.	WORK PLAN ADDENDUM (INCLUDES	SENSITIVE	003	IMAGED		
N62474-88-D-5086	00.0	NAVFAC - EFA	COMMENTS ON DRAFT RI/FS WORK PLAN		004	APNT_019		
00303		WEST	ADDENDUM BY R. HOUGH {COMMUNITY		005			
			ADVISOR COMMITTEE)) [MISSING		006			
			APPENDIX F] {PORTION OF THE COMMENTS		007A			
			IS SENSITIVE} (**SEE COMMENTS)		007B			
					007C			
					008			
					009			
					010A			
					010B			
					011			
					012			
					013			
					014			
					015			
					016			
					017			
					018			
					019			
					020			
N00236 / 000987	11-24-1999	DTSC - BERKELEY	APPROVAL OF FIELD SAMPLING PLAN (SP),	ADMIN RECORD	005	SOUTHWEST		
NONE	<b>10-25-1993</b>	T. LANPHAR	PHASE 5 AND 6			DIVISION - BLDG. 110		
CORRESPONDENC	NONE	NAVFAC - EFA				BOX 29 - 03/01/06		
E	00.0	WEST						
NONE		G. MUNEKAWA						
00001								

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Author	Location	FRC Accession No.	Author	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)	FRC Box No(s)
N00236 / 000658	06-13-2003	TETRA TECH EM	13 APRIL 1994 MONTHLY PROGRESS	ADMIN RECORD	004	FRC - PERRIS	181-03-0188	BOX 0013
TC.A021.10075	<b>04-13-1994</b>	INC.	REVIEW MEETING MINUTES FOR THE BRAC	INFO REPOSITORY	005	SW060629-02	41031858	
MM	DO 0021		CLEANUP ACTIVITIES		008	IMAGED		
N68711-00-D-0005		NAVFAC -			010A	APNT_007		
00007		SOUTHWEST			012			
		DIVISION			013			
					014			
					015			
					PHASE 2B			
					PHASE 3			
N00236 / 001088	11-24-1999	NAVFAC - EFA	SUBMISSION OF DRAFT FINAL LETTER	ADMIN RECORD	005	FRC - PERRIS	181-03-0179	BOX 0031
EFAW SER	<b>09-08-1994</b>	WEST	REPORT FOR THE ADDITIONAL SITE			SW060406-01	41074200	
09ER3GM/L4392	NONE	G. MUNEKAWA	INVESTIGATION (SI), PLATING SHOP (W/			IMAGED		
CORRESPONDENC	00.0	DISTRIBUTION	ENCLOSURE)			APNT_007		
E								
NONE								
00034								
N00236 / 001106	11-24-1999	DTSC - BERKELEY	COMMENTS ON THE DRAFT FINAL LETTER	ADMIN RECORD	005	FRC - PERRIS	181-03-0179	BOX 0031
NONE	<b>10-07-1994</b>	T. LANPHAR	REPORT FOR THE ADDITIONAL SITE			SW060406-01	41074200	
CORRESPONDENC	NONE	NAVFAC - EFA	INVESTIGATION, PLATING SHOP			IMAGED		
E	00.0	WEST				APNT_007		
NONE		G. MUNEKAWA						
00003								
N00236 / 000663	06-13-2003	TETRA TECH EM	18 JANUARY 1995 PROGRESS REVIEW	ADMIN RECORD	005	FRC - PERRIS	181-03-0188	BOX 0013
TC.A021.10075	<b>01-18-1995</b>	INC.	MEETING MINUTES	INFO REPOSITORY	007A	SW060629-02	41031858	
MM	DO 0021				007C	IMAGED		
N68711-00-D-0005		NAVFAC -			013	APNT_007		
00005		SOUTHWEST			015			
		DIVISION			016			

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 000666	06-16-2003	TETRA TECH EM	TETRA TECH EM	14 MARCH 1995 PROGRESS REVIEW	ADMIN RECORD	001	FRC - PERRIS	181-03-0188 BOX 0013
TC.A021.10075	<b>03-14-1995</b>	INC.	INC.	MEETING MINUTES	INFO REPOSITORY	002	SW060629-02	41031858
MM	DO 021					003	IMAGED	
N68711-00-D-0005		NAVFAC -	NAVFAC -			004	APNT_007	
00006		SOUTHWEST	SOUTHWEST			005		
		DIVISION	DIVISION			007A		
						007C		
						010A		
						012		
						013		
						014		
						015		
						018		
N00236 / 001182	11-24-1999	NAVFAC - EFA	NAVFAC - EFA	SUBMISSION OF DOCUMENT SUMMARY	ADMIN RECORD	004	FRC - PERRIS	181-03-0179 BOX 0032
EFAW SER	<b>05-01-1995</b>	WEST	WEST	FOR DRAFT DATA TRANSMITTAL	INFO REPOSITORY	005	SW060406-02	41074200
1831.2GK/L5120	NONE	G. KIKUGAWA	G. KIKUGAWA	MEMORANDUM FOR SITES 4, 5, 8, 10A, 12,		008	IMAGED	
CORRESPONDENC	00.0	DISTRIBUTION	DISTRIBUTION	AND 14 (W/ ENCLOSURE)		010A	APNT_007	
E						012		
NONE						014		
00005								
N00236 / 001188	11-24-1999	NAVFAC - EFA	NAVFAC - EFA	SUBMISSION OF REMEDIAL	ADMIN RECORD	004	FRC - PERRIS	181-03-0179 BOX 0032
EFAW SER	<b>05-18-1995</b>	WEST	WEST	INVESTIGATION/FEASIBILITY STUDY (RI/FS)		005	SW060406-02	41074200
09ER3GK/L5126	NONE	G. KIKUGAWA	G. KIKUGAWA	DRAFT DATA TRANSMITTAL MEMORANDUM		008	IMAGED	
CORRESPONDENC	00.0	DISTRIBUTION	DISTRIBUTION	SITES 4, 5, 8, 10A, 12, AND 14 (W/OUT		010A	APNT_007	
E				ENCLOSURE) [SEE AR #1189 AND AR #1190 -		012		
NONE				DRAFT DATA TRANSMITTAL MEMORANDUM]		014		
00003								

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 001213	11-24-1999	NAVFAC - EFA	NAVFAC - EFA	SUBMISSION OF DOCUMENT SUMMARY	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0032
EFAW SER	07-11-1995	WEST	WEST	FOR DRAFT DATA TRANSMITTAL		002	SW060406-02	41074200
1831.2/5160	NONE	G. KIKUGAWA	G. KIKUGAWA	MEMORANDUM FOR INSTALLATION		003	IMAGED	
CORRESPONDENC	00.0	DISTRIBUTION	DISTRIBUTION	RESTORATION SITES 1, 2, 3, RUNWAY		006	APNT_007	
E				AREA, 6 , 7A, 7B, 7C, 10B, 11, 13, 15, 16, AND		007		
NONE				19 (W/ ENCLOSURE)		010		
00005						011		
						013		
						015		
						016		
						019		
N00236 / 001218	11-24-1999	DTSC - BERKELEY	DTSC - BERKELEY	COMMENTS ON THE REMEDIAL	ADMIN RECORD	004	FRC - PERRIS	181-03-0179 BOX 0033
NONE	07-26-1995	T. LANPHAR	T. LANPHAR	INVESTIGATION/FEASIBILITY STUDY (RI/FS)	SENSITIVE	005	SW070427-01	41074200
CORRESPONDENC	NONE	NAVFAC - EFA	NAVFAC - EFA	DATA TRANSMITTAL MEMORANDUM		008	IMAGED	
E	00.0	WEST	WEST	{PORTION OF THE MAILING LIST IS		009	APNT_025	
NONE		C. GARIBALDI	C. GARIBALDI	SENSITIVE} (INCLUDES CRWQCB		010		
00007				COMMENTS DATED 07/05/95 ON THE DRAFT		012		
				RI/FS DATA TRANSMITTAL MEMORANDUM)		014		
N00236 / 001296	11-24-1999	PRC	PRC	FINAL DATA SUMMARY REPORT	ADMIN RECORD	004	FRC - PERRIS	181-03-0179 BOX 0034
NONE	10-16-1995	ENVIRONMENTAL	ENVIRONMENTAL	BACKGROUND AND TIDAL INFLUENCE		005	SW060406-03	41074200
REPORT	00121	MGMT INC.	MGMT INC.	STUDIES AND ADDITIONAL WORK AT SITES			IMAGED	
N62474-88-D-5086	00.0	D. BALCH	D. BALCH	4 AND 5, VOLUME 1 OF 2 (SEE AR #1297 -			APNT_007	
00119		DEPARTMENT OF	DEPARTMENT OF	VOLUME 2)				
		THE NAVY	THE NAVY					
		G. KIKUGAWA	G. KIKUGAWA					
N00236 / 001297	11-24-1999	PRC	PRC	FINAL DATA SUMMARY REPORT	ADMIN RECORD	004	FRC - PERRIS	181-03-0179 BOX 0034
NONE	10-16-1995	ENVIRONMENTAL	ENVIRONMENTAL	BACKGROUND AND TIDAL INFLUENCE		005	SW060406-03	41074200
REPORT	00121	MGMT INC.	MGMT INC.	STUDIES AND ADDITIONAL WORK AT SITES			IMAGED	
N62474-88-D-5086	00.0	D. BALCH	D. BALCH	4 AND 5, VOLUME 2 OF 2 (SEE AR #1296 -			APNT_007	
00506		DEPARTMENT OF	DEPARTMENT OF	VOLUME 1)				
		THE NAVY	THE NAVY					
		G. KIKUGAWA	G. KIKUGAWA					

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Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 000670	06-16-2003	TETRA TECH EM	TETRA TECH EM	20 FEBRUARY 1996 MONTHLY TRACKING	ADMIN RECORD	002	FRC - PERRIS	181-03-0188
TC.A021.10075	<b>02-20-1996</b>	INC.	INC.	MEETING AGENDA FOR ENVIRONMENTAL	INFO REPOSITORY	003	SW060629-02	BOX 0013
MM	DO 0021			ACTIONS (INCLUDES ATTENDANCE LIST		004	IMAGED	
N68711-00-D-0005		NAVFAC -	NAVFAC -	AND NOTES)		005	APNT_007	
00008		SOUTHWEST	SOUTHWEST			007A		
		DIVISION	DIVISION			007C		
						013		
						014		
						015		
						016		
						018		
						OU 4		
N00236 / 001275	11-24-1999	NAVFAC - EFA	NAVFAC - EFA	TRANSMITTAL OF DRAFT QUALITY	ADMIN RECORD	BLDG. 5	FRC - PERRIS	181-03-0179
EFAW SER	<b>03-04-1996</b>	WEST	WEST	ASSURANCE PROJECT PLAN (QAPP),			SW070511-01	BOX 0034
1831.4/16168	NONE	K. SPIELMAN	K. SPIELMAN	ELECTROKINETIC REMEDIATION			IMAGED	41074200
CORRESPONDENC	00.0	VARIOUS	VARIOUS	DEMONSTRATION AT BUILDING 5 PLATING			APNT_022	
E		AGENCIES	AGENCIES	SHOP (LETTER RECEIVED IN THE				
NONE				ADMINISTRATIVE RECORDS W/OUT				
00002				ENCLOSURE)				
N00236 / 001190	11-24-1999	PRC	PRC	FINAL REMEDIAL	ADMIN RECORD	004	FRC - PERRIS	181-03-0179
NONE	<b>04-01-1996</b>	ENVIRONMENTAL	ENVIRONMENTAL	INVESTIGATION/FEASIBILITY STUDY (RI/FS),		005	SW060406-02	BOX 0032
REPORT	00260	MGMT, INC.	MGMT, INC.	DATA TRANSMITTAL MEMORANDUM,		008	IMAGED	41074200
N62474-88-D-5086	00.0			VOLUME II OF II (INCLUDES REPLACEMENT		010A	APNT_007	
00306				PAGES CONVERTING THE DRAFT DATED		012		
				05/18/95 TO FINAL)		014		
N00236 / 001279	11-24-1999	NAVFAC - EFA	NAVFAC - EFA	SUBMISSION OF RESPONSES TO	ADMIN RECORD	004	FRC - PERRIS	181-03-0179
EFAW SER	<b>04-01-1996</b>	WEST	WEST	COMMENTS ON THE DRAFT REMEDIAL		005	SW060420-01	BOX 0034
18312GK/L6167	NONE	G. KIKUGAWA	G. KIKUGAWA	INVESTIGATION/FEASIBILITY STUDY (RI/FS)		008	IMAGED	41074200
RESPONSE	00.0	DISTRIBUTION	DISTRIBUTION	DATA TRANSMITTAL MEMORANDUM (W/		010A	APNT_009	
NONE				ENCLOSURE)		012		
00009						014		

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Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #						CD No.	FRC Box No(s)——
N00236 / 001280	11-24-1999	NAVFAC - EFA	WEST	TRANSMITTAL OF REPLACEMENT PAGES	ADMIN RECORD	004	FRC - PERRIS	181-03-0179 BOX 0034
EFAW SER	<b>04-01-1996</b>	G. KIKUGAWA		CONVERTING THE DRAFT REMEDIAL		005	SW070427-01	41074200
18312GK/6166	NONE	VARIOUS		INVESTIGATION/FEASIBILITY STUDY (RI/FS),		008	IMAGED	
CORRESPONDENC	00.0	AGENCIES		DATA TRANSMITTAL MEMORANDUM DATED		010	APNT_025	
E				05/18/95 TO FINAL (W/OUT ENCLOSURES)		012		
NONE				{REPLACEMENT PAGES INSERTED IN THE		014		
00003				DOCUMENT}				
N00236 / 001214	11-24-1999	PRC		FINAL REMEDIAL	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0033
NONE	<b>05-01-1996</b>	ENVIRONMENTAL		INVESTIGATION/FEASIBILITY STUDY (RI/FS);		002	SW070427-01	41074200
REPORT	00280	MANAGEMENT,		DATA TRANSMITTAL MEMORANDUM, VOL 1		003	IMAGED	
N62474-88-D-5086	00.0	INC.		OF 2 (INCLUDES REPLACEMENT PAGES		006	APNT_025	
00398		D. BALCH		CONVERTING THE DRAFT DATED 7/11/95		007		
		NAVFAC - EFA		TO FINAL)		010		
		WEST				011		
		G. MUNEKAWA				013		
						015		
						016		
						019		
N00236 / 001215	11-24-1999	PRC		FINAL REMEDIAL	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0033
NONE	<b>05-01-1996</b>	ENVIRONMENTAL		INVESTIGATION/FEASIBILITY STUDY (RI/FS);		002	SW070427-01	41074200
REPORT	00280	MGMT INC.		DATA TRANSMITTAL MEMORANDUM, VOL 2		003	IMAGED	
N62474-88-D-5086	00.0	D. BALCH		OF 2 (INCLUDES REPLACEMENT PAGES		006	APNT_025	
00849		NAVFAC - EFA		CONVERTING DRAFT DATED 7/11/95 TO		007		
		WEST		FINAL)		010		
		G. MUNEKAWA				011		
						013		
						015		
						016		
						019		

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #						CD No.	FRC Box No(s)---
N00236 / 000674	06-16-2003	TETRA TECH EM	20 AUGUST 1996 MONTHLY TRACKING	ADMIN RECORD	001	FRC - PERRIS	181-03-0188	BOX 0013
TC.A021.10075	<b>08-20-1996</b>	INC.	MEETING MINUTES FOR ENVIRONMENTAL	INFO REPOSITORY	002	SW060629-02	41031858	
MM	DO 0021		ACTIONS (INCLUDES ATTENDANCE LIST		005	IMAGED		
N68711-00-D-0005		NAVFAC - EFA	AND AGENDA) [MISSING ATTACHMENT C]		007	APNT_007		
00011		WEST			007A			
					007C			
					010			
					010A			
					014			
					015			
					016			
					018			
					022			
N00236 / 000679	06-16-2003	TETRA TECH EM	17 SEPTEMBER 1996 MONTHLY TRACKING	ADMIN RECORD	002	FRC - PERRIS	181-03-0188	BOX 0013
TC.A021.10075	<b>09-17-1996</b>	INC.	MEETING MINUTES FOR ENVIRONMENTAL	INFO REPOSITORY	003	SW060629-02	41031858	
MM	DO 0021		ACTIONS (INCLUDES ATTENDANCE LIST		005	IMAGED		
N68711-00-D-0005		NAVFAC -	AND AGENDA) [MISSING ATTACHMENT C]		007	APNT_007		
00010		SOUTHWEST			010			
		DIVISION			013			
					014			
					016			
					017			
					018			
					022			
N00236 / 000680	06-16-2003	TETRA TECH EM	15 OCTOBER 1996 MONTHLY TRACKING	ADMIN RECORD	001	FRC - PERRIS	181-03-0188	BOX 0014
TC.A021.10075	<b>10-15-1996</b>	INC.	MEETING MINUTES FOR ENVIRONMENTAL	INFO REPOSITORY	002	SW060629-02	41031858	
MM	DO 0021		ACTIONS (INCLUDES ATTENDANCE LIST		005	IMAGED		
N68711-00-D-0005		NAVFAC -	AND AGENDA)			APNT_007		
00007		SOUTHWEST						
		DIVISION						

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Record Type	Record Date	Author	Author							Location	FRC Accession No.		
Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites				SWDIV Box No(s)	FRC Warehouse		
Approx. # Pages	EPA Cat. #	Recipient								CD No.	FRC Box No(s)		
N00236 / 000681	06-16-2003	TETRA TECH EM	TETRA TECH EM	17 DECEMBER 1996 MONTHLY TRACKING	ADMIN RECORD	001				FRC - PERRIS	181-03-0188	BOX 0014	
TC.A021.10075	<b>12-17-1996</b>	INC.	INC.	MEETING MINUTES FOR ENVIRONMENTAL	INFO REPOSITORY	003				SW060629-02	41031858		
MM	DO 021			ACTIONS (INCLUDES ATTENDANCE LIST,		005				IMAGED			
N68711-00-D-0005		NAVFAC -	NAVFAC -	AGENDA AND PROJECT STATUS AND		007				APNT_007			
00016		SOUTHWEST	SOUTHWEST	UPDATE SHEETS)		012							
		DIVISION	DIVISION			014							
						016							
						022							
						OU 4							
N00236 / 000682	06-16-2003	TETRA TECH EM	TETRA TECH EM	18 FEBRUARY 1997 MONTHLY TRACKING	ADMIN RECORD	002				FRC - PERRIS	181-03-0188	BOX 0014	
TC.A021.10075	<b>02-18-1997</b>	INC.	INC.	MEETING MINUTES FOR ENVIRONMENTAL	INFO REPOSITORY	003				SW060629-02	41031858		
MM	DO 0021			ACTIONS (INCLUDES ATTENDANCE LIST		005				IMAGED			
N68711-00-D-0005		NAVFAC -	NAVFAC -	AND AGENDA)		007				APNT_007			
00011		SOUTHWEST	SOUTHWEST			014							
		DIVISION	DIVISION			017							
						022							
N00236 / 000683	06-16-2003	TETRA TECH EM	TETRA TECH EM	26 FEBRUARY 1997 BACKGROUND	ADMIN RECORD	003				FRC - PERRIS	181-03-0188	BOX 0014	
TC.A021.10075	<b>02-26-1997</b>	INC.	INC.	ASSESSMENT MEETING MINUTES	INFO REPOSITORY	004				SW060629-02	41031858		
MM	DO 0021					005				IMAGED			
N68711-00-D-0005		NAVFAC -	NAVFAC -			007				APNT_007			
00007		SOUTHWEST	SOUTHWEST			011							
		DIVISION	DIVISION			012							
						018							
						022							
						OU 1							
						OU 2							
						OU 3							
N00236 / 000684	06-16-2003	TETRA TECH EM	TETRA TECH EM	25 MARCH 1997 MONTHLY TRACKING	ADMIN RECORD	004				FRC - PERRIS	181-03-0188	BOX 0014	
TC.A021.10075	<b>03-25-1997</b>	INC.	INC.	MEETING MINUTES FOR ENVIRONMENTAL	INFO REPOSITORY	005				SW060629-02	41031858		
MM	DO 0021			ACTIONS (INCLUDES ATTENDANCE LIST,						IMAGED			
N68711-00-D-0005		NAVFAC -	NAVFAC -	AGENDA AND PROJECT STATUS SHEETS)						APNT_007			
00021		SOUTHWEST	SOUTHWEST										
		DIVISION	DIVISION										

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 001396 EFAW SER 1831.1TB/L7140 CORRESPONDENC E NONE 00002	11-24-1999 <b>04-01-1997</b> NONE 00.0	NAVFAC - EFA WEST T. BERNHARD DTSC - BERKELEY T. LANPHAR	NAVFAC - EFA WEST T. BERNHARD DTSC - BERKELEY T. LANPHAR	COMMENTS ON THE PROPOSED UNDERGROUND STORAGE TANK (UST) REMOVAL, SITE 5	ADMIN RECORD	005	FRC - PERRIS SW060504-01 IMAGED APNT_009	181-03-0179 BOX 0037 41074200
N00236 / 001397 NONE CORRESPONDENC E N62474-88-D-5086 00003	11-24-1999 <b>04-03-1997</b> 00107 00.0	PRC ENVIRONMENTAL MGMT INC. M. STEPHENS NAVFAC - EFA WEST T. BERNHARD	PRC ENVIRONMENTAL MGMT INC. M. STEPHENS NAVFAC - EFA WEST T. BERNHARD	REVISED SCHEDULE FOR PROPOSED REMOVAL OF ONE 10,000 GALLON CAPACITY UNDERGROUND SOLVENT STORAGE TANK (UST), SITE 5	ADMIN RECORD	005	FRC - PERRIS SW060504-01 IMAGED APNT_009	181-03-0179 BOX 0037 41074200
N00236 / 000685 TC.A021.10075 MM N68711-00-D-0005 00012	06-16-2003 <b>04-29-1997</b> DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	29 APRIL 1997 MONTHLY TRACKING MEETING MINUTES FOR ENVIRONMENTAL ACTIONS (INCLUDES ATTENDANCE LIST) [MISSING ATTACHMENT C] {SEE AR #684 - ATTACHMENT D}	ADMIN RECORD INFO REPOSITORY	003 004 005 007 010 012 022 OU 1	FRC - PERRIS SW061023-01 IMAGED APNT_019	181-03-0188 BOX 0014 41031858
N00236 / 001383 NONE REPORT N62474-88-D-5086 00022	11-24-1999 <b>05-27-1997</b> 00107 00.0	PRC ENVIRONMENTAL MGMT INC. M. STEPHENS NAVFAC - EFA WEST T. BERNHARD	PRC ENVIRONMENTAL MGMT INC. M. STEPHENS NAVFAC - EFA WEST T. BERNHARD	FINAL SITE 5 UNDERGROUND STORAGE TANK (UST) REMOVAL WORK PLAN (WP)	ADMIN RECORD	005	FRC - PERRIS SW060406-03 IMAGED APNT_007	181-03-0179 BOX 0036 41074200
N00236 / 001382 EFAW SER 1831.3DW/L7181 CORRESPONDENC E N62474-88-D-5086 00002	11-24-1999 <b>05-28-1997</b> 00107 00.0	NAVFAC - EFA WEST D. WONG DISTRIBUTION	NAVFAC - EFA WEST D. WONG DISTRIBUTION	SUBMISSION OF THE FINAL SITE 5 UNDERGROUND STORAGE TANK (UST) REMOVAL WORK PLAN (W/OUT ENCLOSURE) [SEE AR #1383 - FINAL WORK PLAN]	ADMIN RECORD INFO REPOSITORY	005	FRC - PERRIS SW060406-03 IMAGED APNT_007	181-03-0179 BOX 0036 41074200

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Contr./Guid. No.	CTO No.	CTO No.	Recipient Affil.	Approx. # Pages	EPA Cat. #	Recipient	SWDIV Box No(s)	FRC Warehouse
			Subject	Classification	Sites	CD No.	FRC Box No(s)	
N00236 / 000686	06-16-2003	TETRA TECH EM	23 JUNE 1997 MONTHLY TRACKING	ADMIN RECORD	003	FRC - PERRIS	181-03-0188	BOX 0014
TC.A021.10075	<b>06-23-1997</b>	INC.	MEETING MINUTES FOR ENVIRONMENTAL	INFO REPOSITORY	004	SW060629-02	41031858	
MM	DO 0021		ACTIONS (INCLUDES ATTENDANCE LIST		005	IMAGED		
N68711-00-D-0005		NAVFAC -	AND AGENDA) [MISSING ATTACHMENT C]		007	APNT_007		
00011		SOUTHWEST			011			
		DIVISION			012			
					022			
N00236 / 000687	06-16-2003	TETRA TECH EM	29 JULY 1997 MONTHLY TRACKING	ADMIN RECORD	001	FRC - PERRIS	181-03-0188	BOX 0014
TC.A021.10075	<b>07-29-1997</b>	INC.	MEETING MINUTES FOR ENVIRONMENTAL	INFO REPOSITORY	002	SW060629-02	41031858	
MM	DO 0021		ACTIONS (INCLUDES AGENDA) [MISSING		004	IMAGED		
N68711-00-D-0005		NAVFAC -	ATTACHMENT B]		005	APNT_007		
00010		SOUTHWEST			014			
		DIVISION			015			
					016			
					024			
					OU 2			
					OU 3			
N00236 / 001431	11-24-1999	NAVY PUBLIC	FINAL SUMMARY REPORT, PRELIMINARY	ADMIN RECORD	003	FRC - PERRIS	181-03-0179	BOX 0037
EFAW SER 009245	<b>08-07-1997</b>	WORKS CENTER	SITE CHARACTERIZATION USING THE SITE		005	SW060406-03	41074200	
AND SCAPS-97016	NONE	R. STETTLER	CHARACTERIZATION AND ANALYSIS		013	IMAGED		
REPORT	00.0	NAVFAC - EFA	PENETROMETER SYSTEM (SCAPS), SITES		021	APNT_007		
NONE		WEST	3, 5, 7B, 13, AREA 37 FUEL FARM AND					
00360			MISCELLANEOUS FUEL PIPELINE SITES					
N00236 / 000689	06-16-2003	TETRA TECH EM	16 SEPTEMBER 1997 MONTHLY TRACKING	ADMIN RECORD	001	FRC - PERRIS	181-03-0188	BOX 0014
TC.A021.10075	<b>09-16-1997</b>	INC.	MEETING MINUTES FOR ENVIRONMENTAL	INFO REPOSITORY	003	SW060629-02	41031858	
MM	DO 0021		ACTIONS (INCLUDES AGENDA) [MISSING		004	IMAGED		
N68711-00-D-0005		NAVFAC -	ATTACHMENT B]		005	APNT_007		
00013		SOUTHWEST			007			
		DIVISION			011			
					012			
					014			
					015			
					022			
					OU 2			

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Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 001436	11-24-1999	TETRA TECH	TETRA TECH	DRAFT FIELD SAMPLING PLAN (SP) FOR	REMOVED	004	SOUTHWEST	
	<b>09-16-1997</b>	HUTCHISON, NEAL	HUTCHISON, NEAL	SITE 4 AND 5, CHLORINATED SOLVENT		005	DIVISION - BLDG. 1	
REPORT	00122	NAVY	NAVY	PLUME DEFINITION, AND SITE 14 SUMP		014		
N62474-94-D-7609	00.0	MCFADDEN, PATRIC	MCFADDEN, PATRIC	INVESTIGATION				
00250								
N00236 / 001438	11-24-1999	TETRA TECH EM	TETRA TECH EM	DRAFT SITE 5 UNDERGROUND STORAGE	ADMIN RECORD	005	FRC - PERRIS	181-03-0179 BOX 0037
NONE	<b>09-19-1997</b>	INC.	INC.	TANK (UST) REMOVAL CLOSURE REPORT	INFO REPOSITORY		SW060504-01	41074200
REPORT	00107	M. STEPHENS	M. STEPHENS	(SEE AR #1437 - EFA WEST TRANSMITTAL			IMAGED	
N62474-88-D-5086	00.0	NAVFAC - SOUTHWEST	NAVFAC - SOUTHWEST	BY D. WONG)			APNT_009	
00024		D. WONG	D. WONG					
N00236 / 001437	11-24-1999	NAVFAC - EFA	NAVFAC - EFA	SUBMISSION OF THE DRAFT SITE 5	ADMIN RECORD	005	FRC - PERRIS	181-03-0179 BOX 0037
EFAW SER	<b>09-24-1997</b>	WEST	WEST	UNDERGROUND STORAGE TANK (UST)	INFO REPOSITORY		SW060504-01	41074200
612.11DWL7229	00107	D. WONG	D. WONG	REMOVAL CLOSURE REPORT (W/OUT			IMAGED	
CORRESPONDENC	00.0	DISTRIBUTION	DISTRIBUTION	ENCLOSURE) [SEE AR #1438 - DRAFT			APNT_009	
E				CLOSURE REPORT]				
N62474-88-D-5086								
00003								
N00236 / 001458	11-24-1999	NAVFAC - EFA	NAVFAC - EFA	REQUEST FOR IDENTIFICATION OF STATE	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0038
EFAW SER	<b>10-02-1997</b>	WEST	WEST	APPLICABLE OR RELEVANT AND		002	SW060504-01	41074200
612.4/L8001	NONE	C. GARIBALDI	C. GARIBALDI	APPROPRIATE REQUIREMENTS (ARARS)		005	IMAGED	
CORRESPONDENC	00.0	DTSC - BERKELEY	DTSC - BERKELEY	FOR REMOVAL ACTIONS (RM) AT SITES 1, 2,		010	APNT_009	
E		T. LANPHAR	T. LANPHAR	5, AND 10				
NONE								
00005								

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Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 000690	06-16-2003	TETRA TECH EM	TETRA TECH EM	28 OCTOBER 1997 TRACKING MEETING	ADMIN RECORD	003	FRC - PERRIS	181-03-0188 BOX 0014
TC.A021.10075	<b>10-28-1997</b>	INC.	INC.	MINUTES FOR ENVIRONMENTAL ACTIONS	INFO REPOSITORY	004	SW060629-02	41031858
MM	DO			(INCLUDES ATTENDANCE LIST AND		005	IMAGED	
N68711-00-D-0005		NAVFAC -	NAVFAC -	AGENDA) [MISSING ATTACHMENT B]		007	APNT_007	
00012		SOUTHWEST	SOUTHWEST			011		
		DIVISION	DIVISION			012		
						013		
						014		
						015		
						016		
						022		
						OU 1		
N00236 / 001453	11-24-1999	TETRA TECH EM	TETRA TECH EM	RADIOLOGICAL REMOVAL ACTION, DRAFT	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0038
4545-0147-R-S-001-	<b>11-01-1997</b>	INC.	INC.	TECHNICAL WORK		002	SW070427-02	41074200
C	00147			DOCUMENT/PRELIMINARY DRAFT		005	IMAGED	
REPORT	00.0	NAVFAC - EFA	NAVFAC - EFA	REMOVAL ACTION PLAN [SEE AR #1452 -		010	APNT_025	
N62474-94-D-7609		WEST	WEST	EFA WEST TRANSMITTAL LETTER BY G.				
00054		G. KIKUGAWA	G. KIKUGAWA	KIKUGAWA]				
N00236 / 001454	11-24-1999	TETRA TECH	TETRA TECH	DRAFT REMOVAL SITE EVALUATION FOR	REMOVED	001	SOUTHWEST	
	<b>11-01-1997</b>	HUTCHISON, NEAL	HUTCHISON, NEAL	REMOVAL ACTION (RM) AT INSTALLATION		002	DIVISION - BLDG. 1	
REPORT	00147	NAVY	NAVY	RESTORATION (IR) SITES 1, 2, 5, AND 10		005		
N62474-94-D-7609	00.0	KIKUGAWA,	KIKUGAWA,			010		
00011		GEORGE	GEORGE					
N00236 / 001459	11-24-1999	TETRA TECH	TETRA TECH	DRAFT TREATABILITY STUDY (TS)	REMOVED	004	SOUTHWEST	
	<b>11-01-1997</b>	WETTERS, MARK	WETTERS, MARK	PROPOSAL		005	DIVISION - BLDG. 1	
REPORT	00057	NAVY	NAVY			013		
N62474-94-D-7609	00.0	KIKUGAWA,	KIKUGAWA,					
00040		GEORGE	GEORGE					
N00236 / 001462	11-24-1999	NAVFAC -	NAVFAC -	NOTIFICATION OF NON-RECEIPT OF	ADMIN RECORD	005	FRC - PERRIS	181-03-0179 BOX 0038
EFAW SER	<b>11-12-1997</b>	SOUTHWEST	SOUTHWEST	COMMENTS REGARDING THE DRAFT SITE 5	INFO REPOSITORY		SW060504-01	41074200
612.11DW/L8019	NONE	DIVISION	DIVISION	UNDERGROUND STORAGE TANK REMOVAL			IMAGED	
CORRESPONDENC	00.0	D. WONG	D. WONG	CLOSURE REPORT. DRAFT IS			APNT_009	
E		DISTRIBUTION	DISTRIBUTION	CONSIDERED FINAL.				
NONE								
00002								

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Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 000691	06-16-2003	TETRA TECH EM	TETRA TECH EM	09 DECEMBER 1997 TRACKING MEETING	ADMIN RECORD	001	FRC - PERRIS	181-03-0188
TC.A021.10075	<b>12-09-1997</b>	INC.	INC.	MINUTES FOR ENVIRONMENTAL ACTIONS	INFO REPOSITORY	002	SW060629-02	41031858
MM	DO 0021			(INCLUDES AGENDA) [MISSING		004	IMAGED	
N68711-00-D-0005		NAVFAC -	NAVFAC -	ATTACHMENT B]		005	APNT_007	
00013		SOUTHWEST	SOUTHWEST			010		
		DIVISION	DIVISION			014		
N00236 / 001489	11-24-1999	TETRA TECH EM	TETRA TECH EM	FINAL FIELD SAMPLING PLAN (SP) FOR SITE	ADMIN RECORD	004	FRC - PERRIS	181-03-0179
NONE	<b>12-12-1997</b>	INC.	INC.	4 AND 5, CHLORINATED SOLVENT PLUME		005	SW060504-01	41074200
REPORT	00122	N. HUTCHISON	N. HUTCHISON	DEFINITION AND SITE 14 SUMP		014	IMAGED	
N62474-94-D-7609	00.0	NAVFAC - EFA	NAVFAC - EFA	INVESTIGATION			APNT_009	
00137		WEST	WEST					
N00236 / 001476	11-24-1999	DTSC - BERKELEY	DTSC - BERKELEY	COMMENTS ON THE WORK PLAN FOR	ADMIN RECORD	001	FRC - PERRIS	181-03-0179
NONE	<b>01-13-1998</b>	M. CASSA	M. CASSA	LANDFILL 1 AND 2 (INSTALLATION		002	SW060504-01	41074200
CORRESPONDENC	NONE	NAVFAC - EFA	NAVFAC - EFA	RESTORATION SITES 1 AND 2)		005	IMAGED	
E	00.0	WEST	WEST	RADIOLOGICAL SURVEYS, SAMPLING AND		010	APNT_009	
NONE		G. KIKUGAWA	G. KIKUGAWA	REMEDICATION; AND WORK PLAN FOR				
00005				BUILDING 5 AND 400 CONTAMINATED				
				DRAIN PIPING REMOVAL				
N00236 / 001477	11-24-1999	DTSC - BERKELEY	DTSC - BERKELEY	COMMENTS ON THE RADIOLOGICAL	ADMIN RECORD	001	FRC - PERRIS	181-03-0179
NONE	<b>01-15-1998</b>	M. CASSA	M. CASSA	REMOVAL ACTION, DRAFT TECHNICAL		002	SW070427-02	41074200
CORRESPONDENC	NONE	NAVFAC - EFA	NAVFAC - EFA	WORK DOCUMENT/PRELIMINARY DRAFT		005	IMAGED	
E	00.0	WEST	WEST	REMOVAL ACTION PLAN (INCLUDES		010	APNT_025	
NONE		G. KIKUGAWA	G. KIKUGAWA	APPLICABLE OR RELEVANT AND				
00014				APPROPRIATE REQUIREMENTS FOR				
				REMEDICATION OF RADIUM-226				
				CONTAMINATION)				
N00236 / 000693	06-16-2003	TETRA TECH EM	TETRA TECH EM	20 JANUARY 1998 TRACKING MEETING	ADMIN RECORD	001	FRC - PERRIS	181-03-0188
TC.A021.10075	<b>01-20-1998</b>	INC.	INC.	MINUTES FOR ENVIRONMENTAL ACTIONS	INFO REPOSITORY	002	SW061023-01	41031858
MM	DO 0021			(MISSING ATTACHMENT A AND		004	IMAGED	
N68711-00-D-0005		NAVFAC -	NAVFAC -	ATTACHMENT B)		005	APNT_019	
00011		SOUTHWEST	SOUTHWEST			010		
		DIVISION	DIVISION			014		

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Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 001478	11-24-1999	DTSC - BERKELEY	CORRECTIONS TO THE APPLICABLE OR	ADMIN RECORD	001	FRC - PERRIS	181-03-0179	BOX 0038
NONE	<b>01-30-1998</b>	M. CASSA	RELEVANT AND APPROPRIATE (ARARS)		002	SW070427-02	41074200	
CORRESPONDENC	NONE	NAVFAC - EFA	FOR REMEDIATION OF RADIUM - 226		005	IMAGED		
E	00.0	WEST	CONTAMINATION		010	APNT_025		
NONE		G. KIKUGAWA						
00009								
N00236 / 001483	11-24-1999	TETRA TECH	FINAL TREATABILITY STUDY (TS)	ADMIN RECORD	004	SOUTHWEST		
	<b>02-01-1998</b>	WETTERS, MARK	PROPOSAL	MISSING @ SWDIV	005	DIVISION - BLDG. 1		
REPORT	00057	NAVY			013			
N62474-94-D-7609	00.0	KIKUGAWA,						
00040		GEORGE						
N00236 / 001479	11-24-1999	NAVFAC - EFA	TRANSMITTAL OF THE DRAFT WORK PLAN	ADMIN RECORD	005	FRC - PERRIS	181-03-0179	BOX 0038
EF AW SER	<b>02-13-1998</b>	WEST	(WP), TREATABILITY STUDY (TS) FOR			SW070330-03	41074200	
612.14/8088	00007	R. YEE	NATURAL ATTENUATION OF CHLORINATED			IMAGED		
CORRESPONDENC	00.0	VARIOUS	ALIPHATIC HYDROCARBONS (W/OUT			APNT_024		
E		AGENCIES	ENCLOSURE)					
N62474-94-D-7430								
00002								
N00236 / 000694	06-16-2003	TETRA TECH EM	17 FEBRUARY 1998 TRACKING MEETING	ADMIN RECORD	001	FRC - PERRIS	181-03-0188	BOX 0014
TC.A021.10075	<b>02-17-1998</b>	INC.	MINUTES FOR ENVIRONMENTAL ACTIONS	INFO REPOSITORY	002	SW061023-01	41031858	
MM	DO 0021		(MISSING ATTACHMENT A AND		005	IMAGED		
N68711-00-D-0005		NAVFAC -	ATTACHMENT B)		010	APNT_019		
00012		SOUTHWEST			OU 1			
		DIVISION			OU 2			
N00236 / 001496	11-24-1999	MORRISON	DRAFT INSTALLATION RESTORATION (IR)	ADMIN RECORD	001	FRC - PERRIS	181-03-0179	BOX 0039
NONE	<b>03-01-1998</b>	KNUDSEN	SITES 1, 2, 5, AND 10, AND STORM DRAIN		002	SW060504-01	41074200	
REPORT	00147	CORPORATION	LINE F, RADIOLOGICAL REMOVAL ACTION		005	IMAGED		
N62474-94-D-7609	00.0	A. MUELLERLEILE	TECHNICAL SPECIFICATIONS FOR		010	APNT_009		
00114		NAVFAC - EFA	IMPLEMENTATION WORK PLAN (SEE AR					
		WEST	#1495 - EFA WEST TRANSMITTAL LETTER					
		G. KIKUGAWA	BY G. KIKUGAWA)					

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Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 001497	11-24-1999	MORRISON	DRAFT INSTALLATION RESTORATION (IR)	ADMIN RECORD	001	FRC - PERRIS	181-03-0179	BOX 0039
NONE	<b>03-01-1998</b>	KNUDSEN	SITES 1, 2, 5, AND 10, AND STORM DRAIN		002	SW060504-01	41074200	
REPORT	00147	CORPORATION	LINE F, RADIOLOGICAL REMOVAL ACTION		005	IMAGED		
N62474-94-D-7609	00.0	NAVFAC - EFA	(RM) PLANS' DRAWINGS (SEE AR #1495 -		010	APNT_009		
00009		WEST	EFA WEST TRANSMITTAL LETTER BY G.					
		G. KIKUGAWA	KIKUGAWA)					
N00236 / 001482	11-24-1999	NAVY	TRANSMITTAL OF THE FINAL TREATABILITY	ADMIN RECORD	004	FRC - PERRIS	181-03-0179	BOX 0038
EFAW SER	<b>03-02-1998</b>	KIKUGAWA,	STUDY (TS) PROPOSAL (W/OUT		005	SW070330-03	41074200	
612.4GK/L8085	00057	GEORGE	ENCLOSURE)		013	IMAGED		
CORRESPONDENC	00.0	DTSC				APNT_024		
E		CASSA, MARY						
N62474-94-D-7609		ROSE						
00002								
N00236 / 000695	06-16-2003	TETRA TECH EM	17 MARCH 1998 TRACKING MEETING	ADMIN RECORD	004	FRC - PERRIS	181-03-0188	BOX 0014
TC.A021.10075	<b>03-17-1998</b>	INC.	MINUTES FOR ENVIRONMENTAL ACTIONS	INFO REPOSITORY	005	SW060629-02	41031858	
MM	DO 0021		[MISSING ATTACHMENT A]		014	IMAGED		
N68711-00-D-0005		NAVFAC -			PARCEL 182	APNT_007		
00012		SOUTHWEST						
		DIVISION						
N00236 / 001495	11-24-1999	NAVFAC - EFA	SUBMISSION OF THE DRAFT INSTALLATION	ADMIN RECORD	001	FRC - PERRIS	181-03-0179	BOX 0039
EFAW SER	<b>03-25-1998</b>	WEST	RESTORATION (IR) SITES 1, 2, 5, AND 10,		002	SW060504-01	41074200	
612.4GK/L8102	00147	G. KIKUGAWA	AND STORM DRAIN LINE F, RADIOLOGICAL		005	IMAGED		
CORRESPONDENC	00.0	DISTRIBUTION	REMOVAL ACTION - TECHNICAL		010	APNT_009		
E			SPECIFICATIONS FOR IMPLEMENTATION					
N62474-94-D-7609			WORK PLAN AND DRAWINGS (W/OUT					
00004			ENCLOSURES) [***SEE COMMENTS]					
N00236 / 001498	11-24-1999	DTSC - BERKELEY	COMMENTS ON VARIOUS DOCUMENTS	ADMIN RECORD	001	FRC - PERRIS	181-03-0179	BOX 0039
NONE	<b>03-31-1998</b>	M. CASSA	FOR INSTALLATION RESTORATION (IR)		002	SW070427-02	41074200	
CORRESPONDENC	NONE	NAVFAC - EFA	SITES (INCLUDES TABLE OF DOCUMENTS		005	IMAGED		
E	00.0	WEST	REVIEWED BY AGENCIES)		010	APNT_025		
NONE		G. KIKUGAWA						
00007								

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Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 001512 PROJECT NO. USN 97-032 REPORT NONE 00025	11-24-1999 <b>04-01-1998</b> NONE 00.0	NEW WORLD TECHNOLOGY M. DIVOKY NAVFAC - EFA WEST	NEW WORLD TECHNOLOGY M. DIVOKY NAVFAC - EFA WEST	SITE WORK PLAN (WP) FOR THE STORM WATER DRAIN EXCAVATION, CLEANING, REMOVAL, AND REPLACEMENT PHASE III, REVISION 1	ADMIN RECORD	BLDG. 400 BLDG. 5	FRC - PERRIS SW070511-01 IMAGED APNT_022	181-03-0179 BOX 0039 41074200
N00236 / 001513 PROJECT NO. USN97-032 REPORT NONE 00040	11-24-1999 <b>04-01-1998</b> NONE 00.0	NEW WORLD TECHNOLOGY M. DIVOKY NAVFAC - EFA WEST KIKUGAWA, GEORGE	NEW WORLD TECHNOLOGY M. DIVOKY NAVFAC - EFA WEST KIKUGAWA, GEORGE	SITE QUALITY ASSURANCE PLAN (QAP) FOR THE STORM WATER DRAIN EXCAVATION, CLEANING, REMOVAL, AND REPLACEMENT, PHASE III, REVISION 1 [SEE AR #1543 - REVISION 2]	ADMIN RECORD	BLDG. 400 BLDG. 5	FRC - PERRIS SW070511-01 IMAGED APNT_022	181-03-0179 BOX 0039 41074200
N00236 / 001514 PROJECT NO. USN 97-032 REPORT NONE 00153	11-24-1999 <b>04-01-1998</b> NONE 00.0	NEW WORLD TECHNOLOGY M. DIVOKY NAVFAC - EFA WEST	NEW WORLD TECHNOLOGY M. DIVOKY NAVFAC - EFA WEST	SITE HEALTH AND SAFETY PLAN (HASP) FOR THE STORM WATER DRAIN EXCAVATION, CLEANING, REMOVAL, AND REPLACEMENT, PHASE III, REVISION 1 (SEE AR #1543 - REVISION 2)	ADMIN RECORD	BLDG. 400 BLDG. 5	FRC - PERRIS SW070511-02 IMAGED APNT_022	181-03-0179 BOX 0039 41074200
N00236 / 001500 EFAW SER 612.4/L8110 RESPONSE NONE 00007	11-24-1999 <b>04-07-1998</b> NONE 00.0	NAVFAC - EFA WEST G. KIKUGAWA DTSC - BERKELEY M. CASSA	NAVFAC - EFA WEST G. KIKUGAWA DTSC - BERKELEY M. CASSA	RESPONSE TO COMMENTS ON THE WORK PLAN (WP) FOR LANDFILL 1 AND 2 (SITES 1 AND 2) RADIOLOGICAL SURVEYS, SAMPLING AND REMEDIATION; AND WORK PLAN FOR BUILDINGS 5 AND 400 CONTAMINATED DRAIN PIPING REMOVAL	ADMIN RECORD	001 002 005 010	FRC - PERRIS SW060504-01 IMAGED APNT_009	181-03-0179 BOX 0039 41074200
N00236 / 001499 NONE CORRESPONDENCE NONE 00003	11-24-1999 <b>04-08-1998</b> NONE 00.0	USEPA - SAN FRANCISCO A. COOK NAVFAC - EFA WEST G. KIKUGAWA	USEPA - SAN FRANCISCO A. COOK NAVFAC - EFA WEST G. KIKUGAWA	COMMENTS ON THE RADIOLOGICAL REMOVAL ACTION FOR INSTALLATION RESTORATION (IR) SITES 1, 2, 5 AND 10, TECHNICAL WORK DOCUMENT/DRAFT REMEDIAL ACTION PLAN	ADMIN RECORD	001 002 005 010	FRC - PERRIS SW060504-01 IMAGED APNT_009	181-03-0179 BOX 0039 41074200
N00236 / 001502 REPORT NONE 00101	11-24-1999 <b>04-08-1998</b> NONE 00.0	SSPORTS NAVY KIKUGAWA, GEORGE	SSPORTS NAVY KIKUGAWA, GEORGE	DRAFT FINAL WORK PLAN (WP) BUILDING 5 AND 400 CONTAMINATED DRAIN PIPING/WALL/FLOOR REMOVAL, REVISION 1	REMOVED	005 010	SOUTHWEST DIVISION - BLDG. 1	

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Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 001501	11-24-1999	NAVFAC - EFA	NAVFAC - EFA	TRANSMITTAL OF 1) DRAFT FINAL WORK	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0039
EFAW SER	<b>04-22-1998</b>	WEST	WEST	PLAN FOR LANDFILLS 1 AND 2		002	SW070427-02	41074200
612.4/L8119	NONE	G. KIKUGAWA	G. KIKUGAWA	RADIOLOGICAL SURVEYS AND ANOMALY		005	IMAGED	
CORRESPONDENC	00.0	VARIOUS	VARIOUS	REMOVAL AND 2) DRAFT FINAL WORK PLAN		010	APNT_025	
E		AGENCIES	AGENCIES	FOR CONTAMINATED				
NONE				DRAIN/PIPING/WALL/FLOOR REMOVAL				
00003				(W/OUT ENCLOSURES) [SEE AR #1503 -				
				ENCLOSURE 1 & AR #1537 - ENCLOSURE 2]				
N00236 / 001531	11-24-1999	TETRA TECH EM	TETRA TECH EM	FINAL REMOVAL SITE EVALUATION FOR	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0039
NONE	<b>05-01-1998</b>	INC.	INC.	REMOVAL ACTIONS (RM) [SEE AR #1452 -		002	SW070427-02	41074200
REPORT	00147	E. HO	E. HO	EFA WEST TRANSMITTAL LETTER BY G.		005	IMAGED	
N62474-94-D-7609	00.0	NAVFAC - EFA	NAVFAC - EFA	KIKUGAWA] {***SEE COMMENTS}		010	APNT_025	
00008		WEST	WEST					
		G. KIKUGAWA	G. KIKUGAWA					
N00236 / 001510	11-24-1999	DTSC - BERKELEY	DTSC - BERKELEY	REQUIREMENTS FOR DISCHARGE OF	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0039
NONE	<b>05-12-1998</b>	D. MURPHY	D. MURPHY	GROUNDWATER TO SAN FRANCISCO BAY		002	SW060504-01	41074200
CORRESPONDENC	NONE	NAVFAC - EFA	NAVFAC - EFA			005	IMAGED	
E	00.0	WEST	WEST			010	APNT_009	
NONE		G. KIKUGAWA	G. KIKUGAWA					
00002								
N00236 / 001524	11-24-1999	NAVFAC - EFA	NAVFAC - EFA	SUBMISSION OF RESPONSE TO	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0039
EFA WEST SER	<b>05-12-1998</b>	WEST	WEST	COMMENTS ON THE RADIOLOGICAL		002	SW060504-01	41074200
612.4/L8135	NONE	G. KIKUGAWA	G. KIKUGAWA	REMOVAL ACTION FOR INSTALLATION		005	IMAGED	
RESPONSE	00.0	USEPA - SAN	USEPA - SAN	RESTORATION (IR) SITES 1, 2, 5, AND 10,		010	APNT_009	
NONE		FRANCISCO	FRANCISCO	TECHNICAL WORK DOCUMENT/DRAFT				
00011		A. COOK	A. COOK	REMEDIAL ACTION PLAN (W/ ENCLOSURES)				
N00236 / 001515	11-24-1999	NAVFAC - EFA	NAVFAC - EFA	RESPONSES TO COMMENTS ON THE	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0039
EFAW SER	<b>05-13-1998</b>	WEST	WEST	RADIOLOGICAL REMOVAL ACTION WORK		002	SW070427-02	41074200
612.4/L8138	NONE	G. KIKUGAWA	G. KIKUGAWA	DOCUMENT/DRAFT REMEDIAL ACTION		005	IMAGED	
RESP	00.0	DTSC - BERKELEY	DTSC - BERKELEY	PLAN (INCLUDES RESPONSE TO		010	APNT_025	
NONE		M. CASSA	M. CASSA	APPLICABLE OR RELEVANT AND				
00009				APPROPRIATE REQUIREMENTS FOR				
				REMEDICATION OF RADIUM-226				
				CONTAMINATION)				

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Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 001511	11-24-1999	NAVFAC - EFA WEST	NAVFAC - EFA WEST	TRANSMITTAL OF THE DRAFT SITE WORK PLAN (WP), QUALITY ASSURANCE PLAN (QAP), AND HEALTH AND SAFETY PLAN (HASP) FOR THE STORM WATER DRAIN EXCAVATION, CLEANING, REMOVAL AND REPLACEMENT (W/OUT ENCLOSURES) {***SEE COMMENTS}	ADMIN RECORD	005	FRC - PERRIS	181-03-0179 BOX 0039
EFAW SER 612.4/L8141	05-15-1998	G. KIKUGAWA	G. KIKUGAWA			010	SW070817-02	41074200
CORRESPONDENCE	NONE	VARIOUS AGENCIES	VARIOUS AGENCIES				IMAGED	
00004	00.0						APNT_025	
N00236 / 001525	11-24-1999	NAVFAC - EFA WEST	NAVFAC - EFA WEST	APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) FOR DISCHARGE OF GROUNDWATER TO SAN FRANCISCO BAY FOR REMOVAL ACTIONS (RM) AT SITE 1, 2, 5, AND 10	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0039
EFAW SER 612.4/L8143	05-15-1998	H. GEE	H. GEE			002	SW060504-01	41074200
CORRESPONDENCE	NONE	DTSC - BERKELEY	DTSC - BERKELEY			005	IMAGED	
00005	00.0	D. MURPHY	D. MURPHY			010	APNT_009	
N00236 / 000697	06-16-2003	TETRA TECH EM INC.	TETRA TECH EM INC.	19 MAY 1998 TRACKING MEETING MINUTES FOR ENVIRONMENTAL ACTIONS [MISSING ATTACHMENTS A AND B]	ADMIN RECORD	004	FRC - PERRIS	181-03-0188 BOX 0014
TC.A021.10075	05-19-1998				INFO REPOSITORY	005	SW060629-02	41031858
MM N68711-00-D-0005	DO 0021	NAVFAC - SOUTHWEST DIVISION	NAVFAC - SOUTHWEST DIVISION				IMAGED	
00010							APNT_007	
N00236 / 001521	11-24-1999	DTSC - BERKELEY	DTSC - BERKELEY	COMMENTS ON THE DRAFT FINAL TECHNICAL WORK DOCUMENT/DRAFT INTERIM REMEDIAL ACTION (IRA) PLAN FOR INSTALLATION RESTORATION SITES 1, 2, 5, AND 10 RADIOLOGICAL REMOVAL	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0039
NONE	05-27-1998	M. CASSA	M. CASSA			002	SW060504-01	41074200
CORRESPONDENCE	NONE	NAVFAC - EFA WEST	NAVFAC - EFA WEST			005	IMAGED	
00004	00.0	G. KIKUGAWA	G. KIKUGAWA			010	APNT_009	
N00236 / 001537	11-24-1999	SUPERVISOR SHIPBUILDING PORTSMOUTH ENVIRONMENTAL DETACHMENT	SUPERVISOR SHIPBUILDING PORTSMOUTH ENVIRONMENTAL DETACHMENT	FINAL WORK PLAN (WP) FOR BUILDINGS 5 AND 400 RADIOACTIVELY CONTAMINATED DRAIN PIPING/WALL/FLOOR REMOVAL, REVISION 2 [SEE AR #1536 - EFA WEST TRANSMITTAL LETTER BY G. KIKUGAWA] {***SEE COMMENTS}	ADMIN RECORD	005	FRC - PERRIS	181-03-0179 BOX 0040
WP NO. NASA-1 REPORT	06-03-1998					010	SW070427-02	41074200
NONE	NONE						IMAGED	
00098	00.0	NAVFAC - EFA WEST	NAVFAC - EFA WEST				APNT_025	

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N00236 / 001528	11-24-1999	DTSC - BERKELEY	DTSC - BERKELEY	COMMENTS ON THE RADIOLOGICAL	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0039
NONE	06-22-1998	M. CASSA	M. CASSA	REMOVAL ACTION (RM) REVISIONS TO	SENSITIVE	002	SW070817-02	41074200
CORRESPONDENC	NONE	NAVFAC - EFA	NAVFAC - EFA	TECHNICAL WORK DOCUMENT/REMEDIAL		005	IMAGED	
E	00.0	WEST	WEST	ACTION (RA) PLAN (PORTION OF THE		010	APNT_025	
NONE		G. KIKUGAWA	G. KIKUGAWA	MAILING LIST IS SENSITIVE) [INCLUDES EPA				
00008				LETTER DATED 09 JUNE 1998 ON CRWQCB				
				REQUIREMENTS FOR WATER DISCHARGE]				
N00236 / 001529	11-24-1999	DTSC - BERKELEY	DTSC - BERKELEY	COMMENTS ON RADIOLOGICAL REMOVAL	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0039
NONE	06-22-1998	M. CASSA	M. CASSA	ACTION (RM) SITE QUALITY ASSURANCE		002	SW070511-02	41074200
CORRESPONDENC	NONE	NAVFAC - EFA	NAVFAC - EFA	PLAN (QAP), SITE WORK PLAN (WP), AND		005	IMAGED	
E	00.0	WEST	WEST	SITE HEALTH AND SAFETY PLAN (SHSP)		010	APNT_022	
NONE		G. KIKUGAWA	G. KIKUGAWA	(INCLUDES COMMENTS BY HERD DATED				
00010				06/17/98)				
N00236 / 001591	11-24-1999	NAVFAC - EFA	NAVFAC - EFA	RESPONSE TO COMMENTS ON THE DRAFT	ADMIN RECORD	BLDG. 400	FRC - PERRIS	181-03-0179 BOX 0042
EFAW SER	06-23-1998	WEST	WEST	FINAL WORK PLAN FOR BUILDINGS 5 AND		BLDG. 5	SW070427-02	41074200
612.4/L8166	NONE	G. KIKUGAWA	G. KIKUGAWA	400 CONTAMINATED DRAIN PIPING			IMAGED	
RESP	00.0	DTSC - BERKELEY	DTSC - BERKELEY	REMOVAL AND LANDFILL 1 AND 2			APNT_025	
NONE		M. CASSA	M. CASSA	RADIOLOGICAL SURVEYS AND ANOMALY				
00004				REMOVAL				
N00236 / 001534	11-24-1999	TETRA TECH EM	TETRA TECH EM	DATA TRANSMITTAL MEMORANDUM FOR	ADMIN RECORD	004	FRC - PERRIS	181-03-0179 BOX 0039
NONE	06-26-1998	INC.	INC.	SITES 4 AND 5 CHLORINATED SOLVENT		005	SW060504-02	41074200
REPORT	00122			PLUME DEFINITION AND SITE 14 SUMP		014	IMAGED	
N62474-94-D-7609	00.0	NAVFAC - EFA	NAVFAC - EFA	INVESTIGATION (SEE AR #1535 - DATA			APNT_009	
00066		WEST	WEST	TRANSMITTAL MEMORANDUM,				
		P. MCFADDEN	P. MCFADDEN	APPENDICES A THROUGH F]				
N00236 / 001535	11-24-1999	TETRA TECH EM	TETRA TECH EM	DATA TRANSMITTAL MEMORANDUM FOR	ADMIN RECORD	004	FRC - PERRIS	181-03-0179 BOX 0039
NONE	06-26-1998	INC.	INC.	SITES 4 AND 5 CHLORINATED SOLVENT		005	SW060504-02	41074200
REPORT	00122			PLUME DEFINITION AND SITE 14 SUMP		014	IMAGED	
N62474-94-D-7609	00.0	NAVFAC - EFA	NAVFAC - EFA	INVESTIGATION, APPENDICES A THROUGH			APNT_009	
00390		WEST	WEST	F (SEE AR #1534 - DATA TRANSMITTAL				
		P. MCFADDEN	P. MCFADDEN	MEMORANDUM, TEXT)				
N00236 / 001536	11-24-1999	NAVFAC - EFA	NAVFAC - EFA	TRANSMITTAL OF 1) FINAL WORK PLAN	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0040
EFAW SER	07-01-1998	WEST	WEST	(WP) FOR BUILDINGS 5 AND 400		002	SW070427-02	41074200
612.4/L8173	NONE	G. KIKUGAWA	G. KIKUGAWA	RADIOACTIVELY CONTAMINATED DRAIN		005	IMAGED	
CORRESPONDENC	00.0	VARIOUS	VARIOUS	PIPING/WALL/FLOOR REMOVAL, REVISION 2		010	APNT_025	
E		AGENCIES	AGENCIES	AND 2) FINAL WORK PLAN FOR LANDFILL 1				
NONE				AND 2, RADIOLOGICAL SURVEYS AND				
00003				ANOMALY REMOVAL (W/OUT				
				ENCLOSURES) (**SEE COMMENTS)				

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Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 001532 NONE REPORT N62474-94-D-7609 00114	11-24-1999 <b>07-08-1998</b> 00147 00.0	TETRA TECH EM INC. P. SOLBERG NAVFAC - EFA WEST G. KIKUGAWA	TETRA TECH EM INC. P. SOLBERG NAVFAC - EFA WEST G. KIKUGAWA	INSTALLATION RESTORATION (IR) SITES 1, 2, 5, AND 10; RADIOLOGICAL REMOVAL ACTION (RM) FINAL TECHNICAL WORK DOCUMENT/INTERIM REMEDIAL ACTION (IRA) PLAN (PORTIONS OF SECTION 5 - COST ESTIMATE ARE CONFIDENTIAL)	ADMIN RECORD SENSITIVE	001 002 005 010	FRC - PERRIS SW060504-02 IMAGED APNT_009	181-03-0179 BOX 0039 41074200
N00236 / 001567 NONE CORRESPONDENC E N62474-94-D-7609 00113	11-24-1999 <b>08-01-1998</b> 00147 00.0	TETRA TECH NAVFAC - EFA WEST G. KIKUGAWA	TETRA TECH NAVFAC - EFA WEST G. KIKUGAWA	FINAL RADIOLOGICAL REMOVAL ACTION (RM) FOR IR SITES 1, 2, 5, 10, AND STORM DRAIN LINE F, IMPLEMENTATION WORK PLAN (WP) TECHNICAL SPECIFICATIONS (SEE AR #1566 - EFA WEST TRANSMITTAL LETTER BY G. KIKUGAWA)	ADMIN RECORD	001 002 005 010 017	FRC - PERRIS SW060504-02 IMAGED APNT_009	181-03-0179 BOX 0040 41074200
N00236 / 001568 NONE REPORT N62474-94-D-7609 00009	11-24-1999 <b>08-01-1998</b> 00147 00.0	TETRA TECH EM INC. NAVFAC - EFA WEST G. KIKUGAWA	TETRA TECH EM INC. NAVFAC - EFA WEST G. KIKUGAWA	FINAL RADIOLOGICAL REMOVAL ACTION (RM) FOR IR SITES 1, 2, 5, 10, AND STORM DRAIN LINE F, IMPLEMENTATION WORK PLAN (WP) DRAWINGS (SEE AR #1566 - EFA WEST TRANSMITTAL LETTER BY G. KIKUGAWA)	ADMIN RECORD	001 002 005 010 017	FRC - PERRIS SW060504-02 IMAGED APNT_009	181-03-0179 BOX 0040 41074200
N00236 / 000701 TC.A021.10075 MM N68711-00-D-0005 00053	06-16-2003 <b>08-18-1998</b> DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	18 AUGUST 1998 TRACKING MEETING MINUTES FOR ENVIRONMENTAL ACTIONS (INCLUDES AGENDA, ATTENDANCE SHEETS, AND VARIOUS HANDOUTS)	ADMIN RECORD INFO REPOSITORY	001 002 005 010 016	FRC - PERRIS SW060629-02 IMAGED APNT_007	181-03-0188 BOX 0014 41031858
N00236 / 001542 EFAW SER 612.4/L8218 CORRESPONDENC E NONE 00003	11-24-1999 <b>08-25-1998</b> NONE 00.0	NAVFAC - EFA WEST G. KIKUGAWA VARIOUS AGENCIES	NAVFAC - EFA WEST G. KIKUGAWA VARIOUS AGENCIES	TRANSMITTAL OF THE SITE WORK PLAN (WP), SITE HEALTH AND SAFETY PLAN (HASP), AND SITE QUALITY ASSURANCE PLAN (QAP), STORM WATER DRAIN EXCAVATION, CLEANING, REMOVAL AND REPLACEMENT, PHASES III AND IV, REVISION 2 (W/OUT ENCLOSURE) [SEE AR #1543 - ENCLOSURE]	ADMIN RECORD	BLDG. 400 BLDG. 5	FRC - PERRIS SW070511-02 IMAGED APNT_022	181-03-0179 BOX 0040 41074200

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N00236 / 001566	11-24-1999	NAVFAC - EFA WEST	NAVFAC - EFA WEST	SUBMISSION OF THE FINAL RADIOLOGICAL REMOVAL ACTION (RM) FOR IR SITES 1, 2, 5, 10, AND STORM DRAIN LINE F, IMPLEMENTATION WORK PLAN (1) TECHNICAL SPECIFICATIONS AND (2) DRAWINGS (W/OUT ENCLOSURE) ***SEE COMMENTS	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0040
EFAW SER	<b>08-27-1998</b>	G. KIKUGAWA	G. KIKUGAWA		002	SW060504-02	41074200	
612.4GK/L8220	NONE	DISTRIBUTION	DISTRIBUTION		005	IMAGED		
CORRESPONDENCE	00.0				010	APNT_009		
N62474-94-D-7609 00003								
N00236 / 001548	11-24-1999	TETRA TECH EM INC.	TETRA TECH EM INC.	FINAL RADIOLOGICAL REMOVAL ACTION, ACTION MEMORANDUM/INTERIM REMEDIAL ACTION PLAN (PORTION OF ESTIMATED COST SECTIONS ARE CONFIDENTIAL)	ADMIN RECORD	001	FRC - PERRIS	181-03-0179 BOX 0040
NONE	<b>08-28-1998</b>				SENSITIVE	002	SW060420-02	41074200
REPORT	00147	NAVFAC - EFA WEST	NAVFAC - EFA WEST		005	IMAGED		
N62474-94-D-7609 00110	00.0	G. KIKUGAWA	G. KIKUGAWA		010	APNT_009		
N00236 / 001570	11-24-1999	TETRA TECH EM INC.	TETRA TECH EM INC.	TECHNICAL MEMORANDUM (TM) RADIOLOGICAL ASSESSMENT FOR RESIDUAL ACTIVITY GUIDELINES, INSTALLATION RESTORATION (IR) SITES 5 AND 10	ADMIN RECORD	005	FRC - PERRIS	181-03-0179 BOX 0040
NONE	<b>11-01-1998</b>	E. HO	E. HO		010	SW060420-02	41074200	
REPORT	00147	NAVFAC - EFA WEST	NAVFAC - EFA WEST			IMAGED		
N62474-94-D-7609 00074	00.0	G. KIKUGAWA	G. KIKUGAWA			APNT_009		
N00236 / 001569	11-24-1999	NAVFAC - EFA WEST	NAVFAC - EFA WEST	SUBMISSION OF THE TECHNICAL MEMORANDUM (TM) RADIOLOGICAL ASSESSMENT FOR RESIDUAL ACTIVITY GUIDELINES, INSTALLATION RESTORATION (IR) SITES 5 AND 10 - NOVEMBER 1998 (W/OUT ENCLOSURE) [SEE AR #1570 - TECHNICAL MEMORANDUM]	ADMIN RECORD	005	FRC - PERRIS	181-03-0179 BOX 0040
EFAW SER	<b>11-11-1998</b>	G. KIKUGAWA	G. KIKUGAWA		010	SW060504-02	41074200	
612.4/L9031	NONE	DISTRIBUTION	DISTRIBUTION			IMAGED		
CORRESPONDENCE	00.0					APNT_009		
NONE								
00003								

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N00236 / 001573	11-24-1999	TETRA TECH EM	DATA SUMMARY REPORT FOR QUARTERLY	ADMIN RECORD	001		FRC - PERRIS	181-03-0179	BOX 0040
NONE	<b>12-07-1998</b>	INC.	GROUNDWATER MONITORING, NOVEMBER		002		SW070427-02	41074200	
REPORT	00108	M. UDELL	1997 - AUGUST 1998 [SEE AR #1533 - EFAW		003		IMAGED		
N62474-94-D-7609	00.0	NAVFAC - EFA	TRANSMITTAL LETTER BY P. MCFADDEN]		004		APNT_025		
00838		WEST	{***SEE COMMENTS}		005				
		P. MCFADDEN			006				
					007				
					009				
					011				
					012				
					013				
					014				
					016				
					022				
					023				
N00236 / 001662	11-24-1999	NAVFAC - EFA	05 JANUARY 1999 RESTORATION ADVISORY	ADMIN RECORD	001		FRC - PERRIS	181-03-0179	BOX 0045
NONE	<b>01-05-1999</b>	WEST	BOARD (RAB) MEETING SUMMARY	SENSITIVE	002		SW060629-03	41074200	
MM	NONE		(INCLUDES ATTENDANCE LIST, AGENDA,		005		IMAGED		
NONE	00.0	RAB MEMBERS	AND VARIOUS HANDOUTS) {PORTION OF		007		APNT_008		
00032			SIGN-IN SHEET IS SENSITIVE}		OU 1				
N00236 / 001582	11-24-1999	TETRA TECH EM	TRANSMITTAL OF SUPPLEMENTAL	ADMIN RECORD	005		FRC - PERRIS	181-03-0179	BOX 0041
NONE	<b>01-08-1999</b>	INC.	RADIOLOGICAL SURVEY DATA,		010		SW070330-03	41074200	
CORRESPONDENC	00147	E. HO	RADIOLOGICAL REMOVAL ACTION INTERIM				IMAGED		
E	00.0	DHS -	DATA (W/OUT ENCLOSURE)				APNT_024		
N62474-94-D-7609		SACRAMENTO							
00004		P. LEINWANDER							
N00236 / 001588	11-24-1999	DTSC - BERKELEY	COMMENTS ON THE 1) FINAL STATUS	ADMIN RECORD	001		FRC - PERRIS	181-03-0179	BOX 0041
NONE	<b>01-14-1999</b>	M. CASSA	RADIATION SURVEY AND FIELD SAMPLING	SENSITIVE	002		SW060420-03	41074200	
CORRESPONDENC	NONE	NAVFAC - EFA	WORK PLAN, 2) TECHNICAL MEMORANDUM		005		IMAGED		
E	00.0	WEST	RADIOLOGICAL ASSESSMENT FOR		010		APNT_009		
NONE		G. KIKUGAWA	RESIDUAL ACTIVITY GUIDELINES, 3)						
00013			RESPONSE TO COMMENTS ON THE DRAFT						
			CONFIRMATION RADIATION SURVEY &						
			FIELD SAMPLING WORK PLAN						

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Record Type	Record Date	Author					Location	FRC Accession No.	
Contr./Guid. No.	CTO No.	Recipient Affil.					SWDIV Box No(s)	FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites		CD No.	FRC Box No(s)	
N00236 / 001583 EFAW SER 612.11DW/L9079 CORRESPONDENC E NONE 00003	11-24-1999 <b>01-26-1999</b> NONE 00.0	NAVFAC - EFA WEST D. WONG DISTRIBUTION	SUBMISSION OF THE DRAFT WORK IMPLEMENTATION PLAN FOR SURFACTANT ENHANCED DNAPL (DENSE NONAQUEOUS PHASE LIQUID) REMOVAL TREATABILITY STUDY AT SITE 5 (W/OUT ENCLOSURE) [SEE AR #1584 - DRAFT WORK IMPLEMENTATION PLAN]	ADMIN RECORD	005		FRC - PERRIS SW060420-02 IMAGED APNT_009	181-03-0179 41074200	BOX 0041
N00236 / 001584 NONE REPORT NONE 00248	11-24-1999 <b>01-26-1999</b> NONE 00.0	SURBEC ENVIRONMENTAL  NAVFAC - EFA WEST D. WONG	DRAFT WORK IMPLEMENTATION PLAN FOR SURFACTANT ENHANCED DNAPL (DENSE NONAQUEOUS PHASE LIQUID) REMOVAL TREATABILITY STUDY AT SITE 5 (SEE AR #1583 - EFA WEST TRANSMITTAL LETTER BY D. WONG)	ADMIN RECORD	005		FRC - PERRIS SW060420-03 IMAGED APNT_009	181-03-0179 41074200	BOX 0041
N00236 / 001598 EFAW SER 612.14/L9088 CORRESPONDENC E N62474-94-D-7430 00004	11-24-1999 <b>02-03-1999</b> 00009 00.0	NAVFAC - EFA WEST R. YEE VARIOUS AGENCIES	COMMENTS ON THE DRAFT TREATABILITY STUDY (TS) WORK PLAN (WP), STEAM ENHANCED EXTRACTION	ADMIN RECORD	005		FRC - PERRIS SW070511-02 IMAGED APNT_022	181-03-0179 41074200	BOX 0042
N00236 / 001590 NONE CORRESPONDENC E NONE 00008	11-24-1999 <b>02-19-1999</b> NONE 00.0	DTSC - BERKELEY M. CASSA NAVFAC - EFA WEST G. KIKUGAWA	COMMENTS ON THE RADIATION SURVEYS AND SAMPLE DATA ASSOCIATED WITH THE STORM DRAIN AND INDUSTRIAL WASTE LINE REMOVALS AT SITES 5 AND 10	ADMIN RECORD	005 010		FRC - PERRIS SW070330-03 IMAGED APNT_024	181-03-0179 41074200	BOX 0041
N00236 / 001614 NONE RESPONSE N62474-94-D-7609 00041	11-24-1999 <b>04-16-1999</b> 00147 00.0	TETRA TECH EM INC. E. HO NAVFAC - EFA WEST G. KIKUGAWA	RESPONSE TO COMMENTS ON THE SURVEY AND SAMPLING PLAN FOR REMOVAL OF CONTAMINATED STORM DRAIN BETWEEN MANWAYS 5F AND 6F	ADMIN RECORD	005 010		FRC - PERRIS SW060420-03 IMAGED APNT_010	181-03-0179 41074200	BOX 0042

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Record Type	Record Date	Author					Location	FRC Accession No.		
Contr./Guid. No.	CTO No.	Recipient Affil.					SWDIV Box No(s)	FRC Warehouse		
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites		CD No.	FRC Box No(s)		
N00236 / 000711	06-16-2003	TETRA TECH EM	18 MAY 1999 BASE REALIGNMENT AND	ADMIN RECORD	001		FRC - PERRIS	181-03-0188	BOX 0014	
TC.A021.10075	<b>05-18-1999</b>	INC.	CLOSURE (BRAC) CLEANUP TEAM (BCT)	INFO REPOSITORY	004		SW060629-02	41031858		
MM	DO 0021		MONTHLY TRACKING MEETING MINUTES		005		IMAGED			
N68711-00-D-0005		NAVFAC -	FOR ENVIRONMENTAL ACTIONS (INCLUDES							
00010		SOUTHWEST	ATTENDANCE LIST, AGENDA, AND VARIOUS		025		APNT_007			
		DIVISION	HANDOUTS)							
N00236 / 001616	11-24-1999	SURBEC	FINAL WORK IMPLEMENTATION PLAN FOR	ADMIN RECORD	005		FRC - PERRIS	181-03-0179	BOX 0042	
NONE	<b>05-18-1999</b>	ENVIRONMENTAL	SURFACTANT ENHANCED DNAPL (DENSE				SW060420-03	41074200		
REPORT	NONE		NON-AQUEOUS PHASE LIQUID) REMOVAL				IMAGED			
NONE	00.0	NAVFAC - EFA	TREATABILITY STUDY AT SITE 5 (SEE AR				APNT_010			
00275		WEST	#1622 - EFA WEST TRANSMITTAL LETTER							
			BY D. WONG)							
N00236 / 001637	11-24-1999	TETRA TECH	RESPONSE TO COMMENTS ON THE	ADMIN RECORD	005		FRC - PERRIS	181-03-0179	BOX 0044	
NONE	<b>06-07-1999</b>	S. EDLUND	INTERIM DATA LETTER REPORT, FINAL C-		010		SW060629-03	41074200		
RESP	00147	NAVFAC - EFA	LINE AND D-LINE				IMAGED			
N62474-94-D-7609	00.0	WEST					APNT_008			
00056		G. KIKUGAWA								
N00236 / 001638	11-24-1999	NAVFAC - EFA	TRANSMITTAL OF THE RESPONSE TO	ADMIN RECORD	005		FRC - PERRIS	181-03-0179	BOX 0044	
EFAW SER	<b>06-22-1999</b>	WEST	COMMENT ON THE REVIEW OF RADIATION		010		SW070330-03	41074200		
612.4/L9159	NONE	G. KIKUGAWA	SURVEYS AND SAMPLE DATA ASSOCIATED				IMAGED			
CORRESPONDENC	00.0	DTSC - BERKELEY	WITH THE STORM DRAIN AND INDUSTRIAL				APNT_024			
E		M. CASSA	WASTE LINE REMOVALS AT SIT							
NONE										
00003										
N00236 / 001643	11-24-1999	SURBEC	TECHNICAL MEMORANDUM (TM) FOR	ADMIN RECORD	005		FRC - PERRIS	181-03-0179	BOX 0045	
NONE	<b>06-23-1999</b>	ENVIRONMENTAL	SURFACTANT ENHANCED DNAPL REMOVAL				SW060629-03	41074200		
REPORT	NONE		TREATABILITY STUDY (SEE AR #1642 - EFA				IMAGED			
NONE	00.0	NAVFAC - EFA	WEST TRANSMITTAL LETTER BY D. WONG)				APNT_008			
00186		WEST								
		D. WONG								

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Contr./Guid. No.	CTO No.	Recipient Affil.					SWDIV Box No(s)	FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites		CD No.	FRC Box No(s)	
N00236 / 001642	11-24-1999	NAVFAC - EFA	SUBMISSION OF THE TECHNICAL	ADMIN RECORD	005		FRC - PERRIS	181-03-0179	BOX 0044
EFAW SER 612.11	<b>06-28-1999</b>	WEST	MEMORANDUM (TM) FOR SURFACTANT				SW060629-03	41074200	
DW/L9164	NONE	D. WONG	ENHANCED DNAPL REMOVAL				IMAGED		
CORRESPONDENC	00.0	DISTRIBUTION	TREATABILITY STUDY (W/OUT				APNT_008		
E			ENCLOSURE) [SEE AR #1643 - TECHNICAL						
NONE			MEMORANDUM]						
00003									
N00236 / 001680	01-21-2000	NAVFAC -	06 JULY 1999 DRAFT RESTORATION	ADMIN RECORD	001		FRC - PERRIS	181-03-0179	BOX 0045
NONE	<b>07-06-1999</b>	WESTERN	ADVISORY BOARD (RAB) MEETING	SENSITIVE	002		SW060504-02	41074200	
MM	NONE	DIVISION	SUMMARY (INCLUDES AGENDA, HANDOUTS		006		IMAGED		
NONE	10.4		AND SIGN-IN SHEETS) [PORTION OF THE		007		APNT_009		
00071		NAVFAC -	SIGN-IN SHEET IS CONFIDENTIAL]		008				
		WESTERN			015				
		DIVISION			016				
					017				
					025				
					BLDG. 400				
					BLDG. 5				
					OU 1				
					OU 2				
					OU 3				
					OU 4				

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Author	Location	SWDIV Box No(s)	FRC Warehouse	FRC Accession No.	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	CD No.	FRC Accession No.	FRC Warehouse
N00236 / 001679	01-21-2000	NAVFAC - WESTERN DIVISION	3 AUGUST 1999 RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES AGENDA, HANDOUTS AND SIGN-IN SHEETS) [PORTION OF THE SIGN-IN SHEET IS CONFIDENTIAL]	ADMIN RECORD	001	FRC - PERRIS	181-03-0179	BOX 0045
NONE	<b>08-03-1999</b>			SENSITIVE	002	SW060504-02	41074200	
MM	NONE				003	IMAGED		
NONE	10.4	NAVFAC - WESTERN DIVISION			004	APNT_009		
00029					005			
					009			
					010			
					013			
					014			
					017			
					019			
					020			
					021			
					022			
					023			
					024			
					025			
					1112			
					360			
					400			
					410			
					BLDG. 14			
					BLDG. 162			
					BLDG. 5			
					OU 1			
					OU 2			
					OU 3			
					OU 4			
N00236 / 001689	04-27-2000	TETRA TECH EM INC.	FINAL - F LINE FIELD SAMPLING WORK PLAN (UNSIGNED COPY) [INCLUDES EFA WEST TRANSMITTAL LETTER BY G. KIKUGAWA]	ADMIN RECORD	005	FRC - PERRIS	181-03-0179	BOX 0046
EFAW SER	<b>08-30-1999</b>				010	SW060615-04	41074200	
612.4/L9206	00147	S. EDLUND			BLDG. 5	IMAGED		
REPORT		VARIOUS				APNT_006		
N62474-94-D-7609		AGENCIES						
00015								

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Author	Classification	Sites	SWDIV Box No(s)	FRC Warehouse	FRC Box No(s)
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	CD No.	FRC Warehouse	FRC Box No(s)
N00236 / 001660	11-24-1999	TETRA TECH	DRAFT SITE 5 ELECTROKINETIC PILOT-SCALE TREATABILITY STUDY OVERSIGHT REPORT [SEE AR #1659 - EFAW TRANSMITTAL LETTER BY D. WONG]	ADMIN RECORD	005	SOUTHWEST DIVISION - BLDG. 1		
REPORT	09-01-1999	N. HUTCHISON		MISSING @ SWDIV				
N62474-94-D-7609	00057	NAVFAC - EFA WEST						
00250	00.0	D. WONG						
N00236 / 001678	01-21-2000	NAVFAC - WESTERN DIVISION	7 SEPTEMBER 1999 DRAFT RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES AGENDA, SIGN-IN SHEETS AND VARIOUS HANDOUT MATERIALS) [PORTION OF ATTACHMENT C IS CONFIDENTIAL]	ADMIN RECORD	003	FRC - PERRIS	181-03-0179	BOX 0045
NONE	09-07-1999			SENSITIVE	004	SW060615-04	41074200	
MM	NONE				005	IMAGED		
NONE	10.4	RAB MEMBERS			009	APNT_006		
00085					010			
					011			
					012			
					013			
					014			
					015			
					019			
					021			
					022			
					023			
					025			
					BLDG. 14			
					BLDG. 400			
					BLDG. 410			
					BLDG. 5			
					BLDG. 530			
					OU 2			
N00236 / 001659	11-24-1999	NAVFAC - EFA WEST	TRANSMITTAL OF THE DRAFT ELECTROKINETIC PILOT-SCALE TREATABILITY STUDY OVERSIGHT REPORT (W/OUT ENCLOSURE) [SEE AR #1660 - DRAFT REPORT]	ADMIN RECORD	005	FRC - PERRIS	181-03-0179	BOX 0045
EFAW SER	09-21-1999	D. WONG				SW070511-02	41074200	
612.11DW/L9216	00057	VARIOUS AGENCIES				IMAGED		
CORRESPONDENCE	00.0					APNT_022		
N62474-94-D-7609								
00003								

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse	FRC Box No(s)
Approx. # Pages	EPA Cat. #	Recipient				CD No.		
N00236 / 001677	01-21-2000	NAVFAC - EFA	05 OCTOBER 1999 DRAFT RESTORATION	ADMIN RECORD	001	FRC - PERRIS	181-03-0179	BOX 0045
NONE	<b>10-05-1999</b>	WEST	ADVISORY BOARD (RAB) MEETING		002	SW070511-02	41074200	
MM	NONE		SUMMARY (INCLUDES AGENDA, VARIOUS		005	IMAGED		
NONE	10.4	VARIOUS	HANDOUTS AND SIGN-IN SHEETS)		010	APNT_022		
00033		AGENCIES			014			
					025			
					BLDG. 400			
					BLDG. 5			
					OU 1			
					OU 2			
					OU 3			
N00236 / 000716	06-16-2003	TETRA TECH EM	19 OCTOBER 1999 BASE REALIGNMENT	ADMIN RECORD	004	FRC - PERRIS	181-03-0188	BOX 0014
TC.A021.10075	<b>10-19-1999</b>	INC.	AND CLOSURE (BRAC) CLEANUP TEAM	INFO REPOSITORY	005	SW060629-02	41031858	
MM	DO 021		(BCT) MONTHLY TRACKING MEETING		025	IMAGED		
N68711-00-D-0005		NAVFAC -	AFTER ACTION REPORT (INCLUDES		OU 2	APNT_007		
00049		SOUTHWEST	ATTENDANCE LIST AND VARIOUS		OU 3			
		DIVISION	HANDOUT MATERIALS)					
N00236 / 001673	01-21-2000	DTSC - BERKELEY	REVIEW AND COMMENTS ON DRAFT	ADMIN RECORD	005	FRC - PERRIS	181-03-0179	BOX 0045
NONE	<b>10-26-1999</b>	M. CASSA	ELECTROKINETIC PILOT-SCALE			SW070511-02	41074200	
CORRESPONDENC	NONE	NAVFAC - EFA	TREATABILITY STUDY OVERSIGHT REPORT			IMAGED		
E	00.0	WEST	(INCLUDES OFFICE OF POLLUTION			APNT_022		
NONE		D. WONG	PREVENTION AND TECHNOLOGY					
00006			DEVELOPMENT COMMENTS DATED 22					
			OCTOBER 1999)					

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Contr./Guid. No.	CTO No.	Recipient Affil.	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse	FRC Box No(s)
Approx. # Pages	EPA Cat. #	Recipient				CD No.		
N00236 / 001676	01-21-2000	NAVFAC -	11 NOVEMBER 1999 DRAFT RESTORATION	ADMIN RECORD	001	FRC - PERRIS	181-03-0179	BOX 0045
NONE	<b>11-11-1999</b>	SOUTHWEST	ADVISORY BOARD (RAB) MEETING		002	SW070427-02	41074200	
MM	NONE	DIVISION	SUMMARY (INCLUDES AGENDA, VARIOUS		004	IMAGED		
NONE	10.4		HANDOUTS AND SIGN-IN SHEETS)		006	APNT_025		
00043		VARIOUS			007			
		AGENCIES			008			
					010			
					012			
					015			
					016			
					017			
					018			
					020			
					024			
					025			
					BLDG. 400			
					BLDG. 5			
					OU 1			
					OU 2			
					OU 3			
					OU 4			
N00236 / 000511	06-11-2003	TETRA TECH EM	04 JANUARY 2000 RESTORATION ADVISORY	ADMIN RECORD	001	FRC - PERRIS	181-03-0188	BOX 0013
TC.A021.10074	<b>01-04-2000</b>	INC.	BOARD (RAB) MEETING SUMMARY	INFO REPOSITORY	002	SW060629-01	41031858	
MM	DO 21		(INCLUDES AGENDA, SIGN-IN SHEETS AND		005	IMAGED		
N68711-00-D-0005		NAVFAC -	VARIOUS HANDOUTS)		010	APNT_007		
00026		SOUTHWEST			014			
		DIVISION			025			
					BLDG. 400			
					OU 1			
					OU 2			
					OU 3			
					OU 4			

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Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 001681 NONE MM NONE 00008	02-15-2000 <b>01-04-2000</b> NONE	NAVFAC - WESTERN DIVISION  NAVFAC - SOUTHWEST DIVISION	NAVFAC - WESTERN DIVISION  NAVFAC - SOUTHWEST DIVISION	04 JANUARY 2000 RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (WITH ENCLOSURES)	ADMIN RECORD INFO REPOSITORY	001 002 005 010 025 BLDG. 400 BLDG. 5 OU 1 OU 2 OU 3 OU 4	SOUTHWEST DIVISION - BLDG. 110 BOX 45 - 04/05/06	
N00236 / 001692 NONE REPORT N62474-94-D-7609 00125	04-27-2000 <b>03-31-2000</b> 0236 & 0245	TETRA TECH EM INC. D. SHAFER NAVFAC - SOUTHWEST DIVISION	TETRA TECH EM INC. D. SHAFER NAVFAC - SOUTHWEST DIVISION	FINA FEASIBILITY STUDY (FS) FOR THE MARSH CRUST AND THE FORMER SUBTIDAL AREA (PORTION OF CHAPTER 3 AND APPENDIX A IS CONFIDENTIAL)	ADMIN RECORD SENSITIVE	002 003 004 005 006 007 OU 1 OU 2 OU 3	FRC - PERRIS SW060504-02 IMAGED APNT_010	181-03-0179 BOX 0046 41074200
N00236 / 001695 NONE CORRESPONDENCE NONE 00010	05-09-2000 <b>04-03-2000</b> NONE	DTSC M. CASSA NAVFAC - SOUTHWEST DIVISION D. WONG	DTSC M. CASSA NAVFAC - SOUTHWEST DIVISION D. WONG	COMMENTS ON DRAFT SURFACTANT ENHANCED SUBSURFACE REMEDIATION (SESR) DENSE NON-AQUEOUS PHASE LIQUID (DNAPL) REMOVAL TREATABILITY STUDY RESULTS REPORT DATED 3 FEBRUARY 2000	ADMIN RECORD	005	FRC - PERRIS SW060504-02 IMAGED APNT_010	181-03-0179 BOX 0046 41074200
N00236 / 002425 NONE CORRESPONDENCE NONE 00008	08-22-2006 <b>05-08-2000</b> NONE	USEPA - SAN FRANCISCO A. COOK NAVFAC - SOUTHWEST DIVISION R. WEISSENBORN	USEPA - SAN FRANCISCO A. COOK NAVFAC - SOUTHWEST DIVISION R. WEISSENBORN	REVIEW AND COMMENTS OF DRAFT SURFACTANT ENHANCED SUBSURFACE REMEDIATION (SESR) DNAPL REMOVAL TREATABILITY STUDY RESULTS REPORT	ADMIN RECORD	005	FRC - PERRIS SW070330-03 IMAGED APNT_024	181-03-0179 BOX 0025 41074200

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #						CD No.	FRC Box No(s)
N00236 / 001869 SWDIV SER 06KN.SN/649 REPORT N62474-98-D-2076 00285	09-24-2004 <b>08-14-2000</b> 0013/MOD. 1	IT CORPORATION T. DAVIS NAVFAC - SOUTHWEST DIVISION	FIELD SAMPLING INVESTIGATION PLAN, INDUSTRIAL WASTEWATER TREATMENT PLANT (INCLUDES RESPONSE TO COMMENTS, SWDIV TRANSMITTAL LETTER BY S. NEISHI, AND REPLACEMENT PAGES)	ADMIN RECORD INFO REPOSITORY	BLDG. 360 BLDG. 5	SOUTHWEST DIVISION - BLDG. 1 SW070817-03 IMAGED APNT_025		
N00236 / 000589 TC.A021.10074 MM N68711-00-D-0005 00008	06-11-2003 <b>09-05-2000</b> DO 0021	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	05 SEPTEMBER 2000 RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (ATTENDANCE LIST IS MISSING)	ADMIN RECORD	001 002 003 005 010 011 012 014 017 024 027 OU 3	FRC - PERRIS SW060629-01 IMAGED APNT_007	181-03-0188 41031858	BOX 0013
N00236 / 000590 TC.A021.10074 MM N68711-00-D-0005 00019	06-11-2003 <b>10-03-2000</b> DO 0021	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	03 OCTOBER 2000 RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES (MISSING ATTENDANCE LIST)	ADMIN RECORD	001 002 005 007 013 025 OU 1 OU 2 OU 2A OU 2B OU 2C OU 3 OU 4 OU 5 OU 7	FRC - PERRIS SW060629-01 IMAGED APNT_007	181-03-0188 41031858	BOX 0013

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	CTO No.	Recipient Affil.	Approx. # Pages	EPA Cat. #	Recipient	SWDIV Box No(s)	FRC Warehouse
						Subject	CD No.	FRC Box No(s)
N00236 / 000058	02-01-2001	NAVFAC -	IDENTIFICATION OF STATE APPLICABLE OR	ADMIN RECORD	003		FRC - PERRIS	181-03-0179 BOX 0002
SWDIV SER	<b>12-27-2000</b>	SOUTHWEST	RELEVANT AND APPROPRIATE	INFO REPOSITORY	004		SW061005-01	41074200
06CA.GC/1044	NONE	DIVISION	REQUIREMENTS (ARARS) FOR REMOVAL		005		IMAGED	
CORRESPONDENC		G. CLARK	ACTIONS		009		APNT_016	
E		DTSC, BERKELEY,			011			
NONE		CA			016			
00003		M. CASSA			019			
					021			
N00236 / 000050	01-05-2001	TETRA TECH EM	DRAFT CADMIUM REMOVAL ACTION,	ADMIN RECORD	005		SOUTHWEST	
DS.0386.15576	<b>01-05-2001</b>	INC.	ENGINEERING EVALUATION AND COST	INFO REPOSITORY	OU 2		DIVISION - BLDG. 1	
REPORT	00386	C. FENNESSY	ANALYSIS (EE/CA)[INCLUDES AGENCY				SW05072801	
N62474-94-D-7609		NAVFAC -	RESPONSE TO NAVY COMMENTS ON THE				IMAGED	
00207		SOUTHWEST	PRELIMINARY DRAFT]				APNT_001	
		DIVISION						
		G. CLARK						
N00236 / 000054	01-05-2001	TETRA TECH EM	DRAFT DENSE NONAQUEOUS PHASE	ADMIN RECORD	004		FRC - PERRIS	181-03-0179 BOX 0001
DS.0386.15537 AND	<b>01-05-2001</b>	INC.	LIQUID AND DISSOLVED SOURCE REMOVAL	INFO REPOSITORY	005		SW060123-01	41074200
15537-01	00386	A. DRISCOLL	ACTION, ENGINEERING EVALUATION AND				IMAGED	
REPORT		NAVFAC -	COST ANALYSIS (EE/CA) [INCLUDES				APNT_002	
N62474-94-D-7609		SOUTHWEST	REVISION 1 - REPLACEMENT PAGES					
00119		DIVISION	ISSUED ON 02/23/01 HAVE BEEN INSERTED					
		G. CLARK	INTO THE DOCUMENT]					

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse	FRC Box No(s)
Approx. # Pages	EPA Cat. #	Recipient				CD No.		
N00236 / 000594	06-11-2003	NAVFAC - EFA	06 FEBRUARY 2001 RESTORATION	ADMIN RECORD	004	FRC - PERRIS	181-03-0188	BOX 0013
NONE	<b>02-06-2001</b>	WEST	ADVISORY BOARD (RAB) MEETING		005	SW070413-01	41031858	
MM	NONE		SUMMARY (INCLUDES AGENDA)		006	IMAGED		
NONE		VARIOUS			007	APNT_022		
00012		AGENCIES			008			
					009			
					010			
					011			
					012			
					013			
					014			
					015			
					016			
					019			
					021			
					022			
					023			
					OU 1			
					OU 2A			
					OU 2B			
					OU 2C			
N00236 / 002539	09-19-2006	DTSC - BERKELEY	RESPONSE TO REQUEST FOR	ADMIN RECORD	003	FRC - PERRIS	181-03-0179	BOX 0005
NONE	<b>02-08-2001</b>	M. CASSA	IDENTIFICATION OF STATE APPLICABLE OR	SENSITIVE	004	SW061120-04	41074200	
CORRESPONDENC	NONE	NAVFAC -	RELEVANT AND APPROPRIATE		005	IMAGED		
E		SOUTHWEST	REQUIREMENTS (ARARS) FOR REMOVAL		009	APNT_024		
NONE		DIVISION	ACTIONS (PORTION OF THE MAILING LIST		011			
00003		G. CLARK	IS SENSITIVE)		016			
					019			
					021			
N00236 / 000085	06-20-2001	DTSC - BERKELEY	DTSC REVIEW AND COMMENTS ON THE	ADMIN RECORD	005	FRC - PERRIS	181-03-0179	BOX 0003
NONE	<b>03-05-2001</b>	M. CASSA	DRAFT ENGINEERING EVALUATION AND	INFO REPOSITORY		SW060123-02	41074200	
CORRESPONDENC	NONE	NAVFAC -	COST ANALYSIS (EE/CA) FOR CADMIUM	SENSITIVE		IMAGED		
E		SOUTHWEST	REMOVAL ACTION (PORTIONS OF THE			APNT_002		
NONE		DIVISION	MAILING LIST IS SENSITIVE)					
00004		G. CLARK						

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Contr./Guid. No.	CTO No.	Recipient Affil.	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse	FRC Box No(s)
Approx. # Pages	EPA Cat. #	Recipient				CD No.		
N00236 / 000087 NONE CORRESPONDENC E NONE 00006	06-25-2001 <b>03-05-2001</b> NONE	USEPA - SAN FRANCISCO A. COOK NAVFAC - SOUTHWEST DIVISION G. CLARK	REVIEW AND COMMENTS ON THE ENGINEERING EVALUATION AND COST ANALYSIS (EE/CA) FOR THE DIOXIN AND CADMIUM REMOVAL ACTIONS (WITH ENCLOSURE)	ADMIN RECORD INFO REPOSITORY	005 014	FRC - PERRIS SW060123-02 IMAGED APNT_002	181-03-0179 41074200	BOX 0003
N00236 / 000595 TC.A021.10074 MM N68711-00-D-0005 00008	06-11-2003 <b>03-06-2001</b> DO 0021	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	06 MARCH 2004 RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (MISSING ATTENDANCE LIST)	ADMIN RECORD	005 025 PARCEL 125 PARCEL 178	FRC - PERRIS SW060629-01 IMAGED APNT_007	181-03-0188 41031858	BOX 0013
N00236 / 000094 NONE CORRESPONDENC E NONE 00005	06-25-2001 <b>03-12-2001</b> NONE	USEPA - SAN FRANCISCO A. COOK NAVFAC - SOUTHWEST DIVISION G. CLARK	REVIEW AND COMMENTS ON THE DRAFT DENSE NONAQUEOUS PHASE LIQUID & DISSOLVED SOURCE REMOVAL ACTION, ENGINEERING EVALUATION/COST ANALYSIS (EE/CA)	ADMIN RECORD INFO REPOSITORY	004 005	FRC - PERRIS SW060123-02 IMAGED APNT_002	181-03-0179 41074200	BOX 0003
N00236 / 002159 NONE CORRESPONDENC E N62474-98-D-2076 00006	11-23-2005 <b>03-13-2001</b> 00060	IT CORPORATION R. MILLAN NAVFAC - SOUTHWEST DIVISION G. CLARK	COMMENTS ON THE DRAFT DENSE NON-AQUEOUS PHASE LIQUID (DNAPL) AND DISSOLVED SOURCE REMOVAL ACTION, ENGINEERING EVALUATION AND COST ANALYSIS	ADMIN RECORD	004 005	SOUTHWEST DIVISION - BLDG. 1 SW070817-03 IMAGED APNT_025		
N00236 / 000095 NONE CORRESPONDENC E NONE 00004	06-25-2001 <b>03-15-2001</b> NONE	CRWQCB - OAKLAND B. JOB NAVFAC - SOUTHWEST DIVISION M. MCCLELLAND	REVIEW AND COMMENTS ON THE DRAFT DENSE NON AQUEOUS PHASE LIQUID & DISSOLVED SOURCE REMOVAL ACTION, ENGINEERING EVALUATION/COST ANALYSIS (EE/CA) [PORTION OF MAILING LIST IS SENSITIVE]	ADMIN RECORD INFO REPOSITORY SENSITIVE	004 005	FRC - PERRIS SW060123-02 IMAGED APNT_002	181-03-0179 41074200	BOX 0003

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Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 000096 NONE CORRESPONDENC E NONE 00004	06-25-2001 <b>03-16-2001</b> NONE	DTSC - BERKELEY M. CASSA NAVFAC - SOUTHWEST DIVISION G. CLARK	DTSC - BERKELEY M. CASSA NAVFAC - SOUTHWEST DIVISION G. CLARK	REVIEW AND COMMENTS ON THE DRAFT DENSE NON AQUEOUS PHASE LIQUID & DISSOLVED SOURCE REMOVAL ACTION, ENGINEERING EVALUATION/COST ANALYSIS (EE/CA) {PORTION OF MAILING LIST IS SENSITIVE}	ADMIN RECORD INFO REPOSITORY SENSITIVE	004 005	FRC - PERRIS SW060123-02 IMAGED APNT_002	181-03-0179 BOX 0003 41074200
N00236 / 000731 TC.A021.10075 MM N68711-00-D-0005 00012	06-17-2003 <b>03-20-2001</b> DO 0021	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	TETRA TECH EM INC. NAVFAC - SOUTHWEST DIVISION	20 MARCH 2001 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT (INCLUDES AGENDA)	ADMIN RECORD INFO REPOSITORY	005 009 011 016 018 021 OU 6	FRC - PERRIS SW060907-01 IMAGED APNT_003	181-03-0188 BOX 0014 41031858
N00236 / 000097 TC.0386.10977 & SWDIV SER 06CA.GC/0484 RESPONSE N62474-94-D-7609 00015	06-25-2001 <b>05-04-2001</b> 00386	NAVFAC - SOUTHWEST DIVISION G. CLARK USEPA - SAN FRANCISCO A. COOK	NAVFAC - SOUTHWEST DIVISION G. CLARK USEPA - SAN FRANCISCO A. COOK	NAVY'S RESPONSE TO EPA & CRWQCB COMMENTS ON THE DRAFT DENSE NONAQUEOUS PHASE LIQUID & DISSOLVED SOURCE REMOVAL ACTION, ENGINEERING EVALUATION/COST ANALYSIS (EE/CA) [PORTION OF THE MAILING LIST IS CONFIDENTIAL]	ADMIN RECORD INFO REPOSITORY SENSITIVE	004 005	FRC - PERRIS SW060123-02 IMAGED APNT_002	181-03-0179 BOX 0003 41074200
N00236 / 000099 TC.0386.10979 & SWDIV SER 06CA.GC/0485 RESPONSE N62474-94-D-7609 00015	06-26-2001 <b>05-04-2001</b> 00386	NAVFAC - SOUTHWEST DIVISION G. CLARK USEPA - SAN FRANCISCO A. COOK	NAVFAC - SOUTHWEST DIVISION G. CLARK USEPA - SAN FRANCISCO A. COOK	NAVY'S RESPONSE TO DTSC & EPA COMMENTS ON THE DRAFT CADMIUM REMOVAL ACTION, ENGINEERING EVALUATION/COST ANALYSIS (EE/CA) [PORTIONS OF THE MAILING LIST IS SENSITIVE]	ADMIN RECORD INFO REPOSITORY SENSITIVE	005	FRC - PERRIS SW060123-02 IMAGED APNT_002	181-03-0179 BOX 0003 41074200
N00236 / 002404 FILE NO. 2199.9285(LBJ) CORRESPONDENC E NONE 00002	08-21-2006 <b>05-14-2001</b> NONE	CRWQCB - OAKLAND B. JOB NAVFAC - SOUTHWEST DIVISION M. MCCLELLAND	CRWQCB - OAKLAND B. JOB NAVFAC - SOUTHWEST DIVISION M. MCCLELLAND	COMMENTS ON RESPONSE TO COMMENTS ON DRAFT DENSE NON-AQUEOUS PHASE LIQUID AND DISSOLVED SOURCE REMOVAL ACTION ENGINEERING EVALUATION AND COST ANALYSIS (EE/CA)	ADMIN RECORD	004 005	FRC - PERRIS SW070817-03 IMAGED APNT_025	181-03-0179 BOX 0025 41074200

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Record Type	Record Date	Author								Location		FRC Accession No.	
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Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites					CD No.		FRC Box No(s)	
N00236 / 000734 TC.A021.10075 MM N68711-00-D-0005 00011	06-17-2003 <b>05-15-2001</b> DO 0021	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	15 MAY 2001 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT (INCLUDES AGENDA)	ADMIN RECORD INFO REPOSITORY	004 005 025 OU 3 OU 6					FRC - PERRIS SW060907-01 IMAGED APNT_003		181-03-0188 41031858	BOX 0014
N00236 / 002160 NONE CORRESPONDENC E N62474-98-D-2076 00003	11-23-2005 <b>05-17-2001</b> 00060	IT CORPORATION R. MILLAN NAVFAC - SOUTHWEST DIVISION G. CLARK	OPTIMAL REMEDIATION TECHNIQUE FOR DENSE NON-AQUEOUS LIQUID PHASE (DNAPL)/SOURCE REMOVALS	ADMIN RECORD	004 005					SOUTHWEST DIVISION - BLDG. 1 SW070817-03 IMAGED APNT_025			
N00236 / 001949 1425 REPORT N62474-98-D-2076 00237	02-08-2005 <b>05-22-2001</b> 00060	IT CORPORATION  NAVFAC - SOUTHWEST DIVISION	DRAFT REMOVAL ACTION WORK PLAN FOR THE DENSE NONAQUEOUS PHASE LIQUID (DNAPL) AND DISSOLVED SOURCE, REVISION 0 (INCLUDES PROJECT QUALITY CONTROL PLAN, SAMPLING AND ANALYSIS PLAN, ENVIRONMENTAL PROTECTION PLAN AND WASTE MANAGEMENT PLAN)	ADMIN RECORD	004 005					SOUTHWEST DIVISION - BLDG. 1 SW070511-02 IMAGED APNT_022			
N00236 / 000226 1155.1 & 1425.1 & SWDIV SER 06CA.GC/0718 CORRESPONDENC E N62474-98-D-2076 00570	08-13-2001 <b>07-13-2001</b> 00060	IT CORPORATION  NAVFAC - SOUTHWEST DIVISION	DRAFT REMOVAL ACTION PROJECT PLANS - DENSE NONAQUEOUS PHASE LIQUID (DNAPL) AND DISSOLVED SOURCE, REVISION 1 (INCLUDES SWDIV TRANSMITTAL LETTER BY G. CLARK)	ADMIN RECORD INFO REPOSITORY	004 005					FRC - PERRIS SW060323-01 IMAGED APNT_002		181-03-0179 41074200	BOX 0011
N00236 / 000227 1103 CORRESPONDENC E N62474-98-D-2076 00263	08-14-2001 <b>07-13-2001</b> 00048	IT CORPORATION  NAVFAC - SOUTHWEST DIVISION	DRAFT PROJECT PLAN FOR FUEL LINE ABANDONMENT/REMOVAL, REVISION 1	ADMIN RECORD INFO REPOSITORY	005 026					FRC - PERRIS SW071207-01 IMAGED APNT_027		181-03-0179 41074200	BOX 0011

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Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #						CD No.	FRC Box No(s)
N00236 / 000206 TC.0386.11119 & SWDIV SER 06CA.GC/0701 RESPONSE N62474-94-D-7609 00016	07-25-2001 <b>07-19-2001</b> 00386	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	REVISED RESPONSE TO COMMENTS ON THE DRAFT DENSE NONAQUEOUS PHASE LIQUID & DISSOLVED SOURCE REMOVAL ACTION ENGINEERING EVALUATION/COST ANALYSIS {A PORTION OF THE MAILING LIST IS SENSITIVE}	ADMIN RECORD INFO REPOSITORY SENSITIVE	004 005	FRC - PERRIS SW070817-01 IMAGED APNT_025	181-03-0179 41074200	BOX 0010
N00236 / 000231 DS.0386.15563 & SWDIV SER 06CA.GC/0868 CORRESPONDENC E N62474-94-D-7609 00155	09-21-2001 <b>07-23-2001</b> 00386	TETRA TECH EM INC. A. DRISCOLL NAVFAC - SOUTHWEST DIVISION G. CLARK	DRAFT FIELD SAMPLING PLAN/QUALITY ASSURANCE PROJECT PLAN (FSP/QAPP) FOR REMOVAL ACTION CONFIRMATION SAMPLING [INCLUDES SWDIV TRANSMITTAL LETTER BY G. CLARK] (PORTION OF THE MAILING LIST IS CONFIDENTIAL)	ADMIN RECORD INFO REPOSITORY SENSITIVE	005 014 015	FRC - PERRIS SW060323-01 IMAGED APNT_003	181-03-0179 41074200	BOX 0011
N00236 / 000208 1477.1 & SWDIV SER 06CA.GC/0761 CORRESPONDENC E N62474-98-D-2076 00234	08-09-2001 <b>07-26-2001</b> 00071	IT CORPORATION  NAVFAC - SOUTHWEST DIVISION	DRAFT PROJECT PLANS, SOIL REMOVAL ACTIONS, REVISION 1 (INCLUDES SWDIV TRANSMITTAL LETTER BY G. CLARK) [PORTION OF THE MAILING LIST IS CONFIDENTIAL]	ADMIN RECORD INFO REPOSITORY SENSITIVE	005 014 015	FRC - PERRIS SW060223-01 IMAGED APNT_011	181-03-0179 41074200	BOX 0010
N00236 / 000233 DS.0386.15781 & SWDIV SER 06CA.GC/0868 MEMO N62474-94-D-7609 00236	09-21-2001 <b>08-24-2001</b> 00386	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	DRAFT DENSE NONAQUEOUS PHASE LIQUID AND DISSOLVED SOURCE NON-TIME CRITICAL REMOVAL ACTION (NTCRA), ACTION MEMORANDUM (INCLUDES SWDIV TRANSMITTAL LETTER BY G. CLARK) [A PORTION OF THE MAILING LIST IS CONFIDENTIAL]	ADMIN RECORD INFO REPOSITORY SENSITIVE	004 005	FRC - PERRIS SW060323-01 IMAGED APNT_002	181-03-0179 41074200	BOX 0011
N00236 / 000234 DS.0386.15772 & SWDIV SER 06CA.GC/0868 MEMO N62474-94-D-7609 00297	09-21-2001 <b>08-24-2001</b> 00386	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	DRAFT CADMIUM NON-TIME CRITICAL REMOVAL ACTION, ACTION MEMORANDUM [INCLUDES SWDIV TRANSMITTAL LETTER BY G. CLARK] (PORTION OF THE MAILING LIST IS CONFIDENTIAL)	ADMIN RECORD INFO REPOSITORY SENSITIVE	005	FRC - PERRIS SW060209-01 IMAGED APNT_002	181-03-0179 41074200	BOX 0012

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Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 000250 SFD 8-3 CORRESPONDENC E NONE 00007	10-11-2001 <b>09-19-2001</b> NONE	USEPA - SAN FRANCISCO A. COOK NAVFAC - SOUTHWEST DIVISION G. CLARK	USEPA - SAN FRANCISCO A. COOK NAVFAC - SOUTHWEST DIVISION G. CLARK	SUBMISSION OF REVIEW AND COMMENTS ON THE DENSE NONAQUEOUS PHASE LIQUID (DNAPL) AND DISSOLVED SOURCE DRAFT REMOVAL ACTION WORK PLAN (WITH ENCLOSURE)	ADMIN RECORD INFO REPOSITORY	004 005	FRC - PERRIS SW060309-01 IMAGED APNT_011	181-03-0179 BOX 0012 41074200
N00236 / 000253 NONE CORRESPONDENC E NONE 00010	11-02-2001 <b>09-28-2001</b> NONE	USEPA - SAN FRANCISCO A. COOK NAVFAC - SOUTHWEST DIVISION G. CLARK	USEPA - SAN FRANCISCO A. COOK NAVFAC - SOUTHWEST DIVISION G. CLARK	EPA COMMENTS ON DRAFT ACTION MEMORANDUM FOR SITE 5, CADMIUM NON-TIME CRITICAL REMOVAL ACTION (NTCRA); DRAFT ACTION MEMORANDUM FOR SITE 14, DIOXIN NTCRA; DRAFT ACTION MEMO FOR SITES 4 & 5, DENSE NONAQUEOUS PHASE LIQUID (DNAPL) AND DISSOLVED SOURCE NTCRA	ADMIN RECORD INFO REPOSITORY	004 005 014	FRC - PERRIS SW060309-01 IMAGED APNT_011	181-03-0179 BOX 0012 41074200
N00236 / 000265 NONE CORRESPONDENC E NONE 00005	11-02-2001 <b>10-12-2001</b> NONE	USEPA - SAN FRANCISCO A. COOK NAVFAC - SOUTHWEST DIVISION G. CLARK	USEPA - SAN FRANCISCO A. COOK NAVFAC - SOUTHWEST DIVISION G. CLARK	EPA COMMENTS ON DRAFT PROJECT PLANS, SOIL REMOVAL ACTIONS AT SITES 5, 14, AND 15	ADMIN RECORD INFO REPOSITORY	005 014 015	FRC - PERRIS SW060309-01 IMAGED APNT_011	181-03-0179 BOX 0013 41074200
N00236 / 002430 NONE CORRESPONDENC E NONE 00004	08-22-2006 <b>10-26-2001</b> NONE	USEPA - SAN FRANCISCO A. COOK NAVFAC - SOUTHWEST DIVISION G. CLARK	USEPA - SAN FRANCISCO A. COOK NAVFAC - SOUTHWEST DIVISION G. CLARK	REVIEW AND COMMENTS ON DRAFT FIELD SAMPLING PLAN/ QUALITY ASSURANCE PROJECT PLAN (FSP/QAPP) FOR REMOVAL ACTION CONFIRMATION SAMPLING	ADMIN RECORD	005 014 015	FRC - PERRIS SW061106-02 IMAGED APNT_021	181-03-0179 BOX 0025 41074200
N00236 / 000284 TC.0386.11260 & SWDIV SER 06CA.GC/1174 RESPONSE N62474-94-D-7609 00013	12-03-2001 <b>11-05-2001</b> 00386	NAVFAC - SOUTHWEST DIVISION G. CLARK USEPA - SAN FRANCISCO A. COOK	NAVFAC - SOUTHWEST DIVISION G. CLARK USEPA - SAN FRANCISCO A. COOK	TRANSMITTAL OF RESPONSES TO COMMENTS ON THE DRAFT DENSE NONAQUEOUS PHASE LIQUID AND DISSOLVED SOURCE REMOVAL ACTION, ACTION MEMORANDUM (W/ ENCLOSURE 1) {SEE AR #293 - ENCLOSURE 2 AND AR #283 - ENCLOSURE 3} [PORTION OF THE MAILING LIST IS CONFIDENTIAL]	ADMIN RECORD INFO REPOSITORY SENSITIVE	004 005 BLDG. 5	FRC - PERRIS SW060309-01 IMAGED APNT_011	181-03-0179 BOX 0013 41074200

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Contr./Guid. No.	CTO No.	CTO No.	Recipient Affil.	Approx. # Pages	EPA Cat. #	Recipient	SWDIV Box No(s)	FRC Warehouse
						Subject	CD No.	FRC Box No(s)
						Classification	Sites	
N00236 / 000293 TC.0386.11261 & SWDIV SER 06CA.GC/1174 RESPONSE N62474-94-D-7609 00015	12-03-2001 <b>11-05-2001</b> 00386	NAVFAC - SOUTHWEST DIVISION G. CLARK USEPA - SAN FRANCISCO A. COOK	TRANSMITTAL OF RESPONSES TO COMMENTS ON THE DRAFT CADMIUM NON- TIME CRITICAL REMOVAL ACTION, ACTION MEMORANDUM (W/ ENCLOSURE 2) {SEE AR #284 - ENCLOSURE 1 AND AR #283 - ENCLOSURE 3} [PORTION OF THE MAILING LIST IS CONFIDENTIAL]	ADMIN RECORD INFO REPOSITORY SENSITIVE	005 BLDG. 5 OU 2	FRC - PERRIS SW060309-01 IMAGED APNT_011	181-03-0179 41074200	BOX 0013
N00236 / 000610 TC.A021.10074 MM N68711-00-D-0005 00050	06-11-2003 <b>11-06-2001</b> DO 0021	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	06 NOVEMBER 2001 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES MEETING AGENDA, SIGN-IN SHEETS, AND VARIOUS HANDOUTS) [PORTION OF ATTACHMENT C IS SENSITIVE]	ADMIN RECORD SENSITIVE	004 005 009 011 016	FRC - PERRIS SW060629-01 IMAGED APNT_007	181-03-0188 41031858	BOX 0013
N00236 / 000295 2914 MISC N62474-98-D-2076 00011	12-03-2001 <b>11-15-2001</b> 00071	IT CORPORATION  NAVFAC - SOUTHWEST DIVISION	RESPONSE TO EPA COMMENTS ON DRAFT PROJECT PLANS, SOIL REMOVAL ACTIONS AT SITES 5, 14, AND 15 (SEE AR #265 - EPA COMMENTS) {AN ADDRESS ON THE DISTRIBUTION IS CONFIDENTIAL}	ADMIN RECORD INFO REPOSITORY SENSITIVE	005 014 015	FRC - PERRIS SW060309-01 IMAGED APNT_011	181-03-0179 41074200	BOX 0013
N00236 / 000740 TC.A021.10075 MM N68711-00-D-0005 00015	06-17-2003 <b>11-20-2001</b> DO 0021	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	20 NOVEMBER 2001 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT (INCLUDES AGENDA AND SIGN-IN SHEET)	ADMIN RECORD INFO REPOSITORY	005 028	FRC - PERRIS SW060907-01 IMAGED APNT_003	181-03-0188 41031858	BOX 0014
N00236 / 000281 2989.0 & SWDIV SER 06CA.GC/1228 RESPONSE N62474-98-D-2076 00029	11-30-2001 <b>11-21-2001</b> 00060	NAVFAC - SOUTHWEST DIVISION G. CLARK USEPA - SAN FRANCISCO A. COOK	TRANSMITTAL OF RESPONSE TO COMMENTS ON THE DENSE NONAQUEOUS PHASE LIQUID (DNAPL) AND DISSOLVED SOURCE DRAFT REMOVAL ACTION WORK PLAN (W/ ENCLOSURE) [INCLUDES TRANSMITTAL LETTER FROM G. CLARK] {PORTION OF THE MAILING LIST IS CONFIDENTIAL}	ADMIN RECORD INFO REPOSITORY SENSITIVE	004 005	FRC - PERRIS SW060309-01 IMAGED APNT_011	181-03-0179 41074200	BOX 0013

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Contr./Guid. No.	CTO No.	CTO No.	Recipient Affil.	Approx. # Pages	EPA Cat. #	Recipient	SWDIV Box No(s)	FRC Warehouse
						Subject	CD No.	FRC Box No(s)
N00236 / 000303 3044 & SWDIV SER 06CA.GC/1264 CORRESPONDENC E N62474-98-D-2076 00240	12-10-2001 <b>11-30-2001</b> 00071	IT CORPORATION J. MCGUIRE NAVFAC - SOUTHWEST DIVISION	FINAL PROJECT PLANS - WORK PLAN, QUALITY CONTROL PLAN, SAMPLING & ANALYSIS PLAN, & SITE HEALTH & SAFETY PLAN, SOIL REMOVAL ACTIONS - REVISION 0 (INCLUDES SWDIV TRANSMITTAL LETTER BY G. CLARK) [PORTION OF THE MAILING LIST IS CONFIDENTIAL]	ADMIN RECORD INFO REPOSITORY SENSITIVE	005 014 015	FRC - PERRIS SW060223-02 IMAGED APNT_012	181-03-0179 41074200	BOX 0014
N00236 / 000611 TC.A021.10074 MM N68711-00-D-0005 00011	06-11-2003 <b>12-04-2001</b> DO 0021	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	04 DECEMBER 2001 FINAL RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES MEETING AGENDA AND SIGN-IN SHEETS)	ADMIN RECORD	005 025	FRC - PERRIS SW060629-01 IMAGED APNT_007	181-03-0188 41031858	BOX 0013
N00236 / 000306 DS.0386.15773 MEMO N62474-94-D-7609 00302	12-13-2001 <b>12-07-2001</b> 00386	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	FINAL CADMIUM NON-TIME CRITICAL REMOVAL ACTION - ACTION MEMORANDUM (PORTION OF THE MAILING LIST IS CONFIDENTIAL)	ADMIN RECORD INFO REPOSITORY SENSITIVE	005	FRC - PERRIS SW060309-01 IMAGED APNT_011	181-03-0179 41074200	BOX 0014
N00236 / 000307 DS.0386.15782 MEMO N62474-94-D-7609 00238	12-13-2001 <b>12-07-2001</b> 00386	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	FINAL INSTALLATION RESTORATION DENSE NON-AQUEOUS PHASE LIQUID (DNAPL) AND DISSOLVED SOURCE NON-TIME CRITICAL REMOVAL ACTION (NTCRA) - ACTION MEMORANDUM	ADMIN RECORD INFO REPOSITORY	004 005	SOUTHWEST DIVISION - BLDG. 1 SW050728-01 IMAGED APNT_001		

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse	FRC Box No(s)
Approx. # Pages	EPA Cat. #	Recipient				CD No.		
N00236 / 000313	01-04-2002	IT CORPORATION	DRAFT WORK PLAN FOR BASEWIDE	ADMIN RECORD	001	SOUTHWEST		
2700.0	<b>12-18-2001</b>	J. MCGUIRE	GROUNDWATER MONITORING PROGRAM,	INFO REPOSITORY	003	DIVISION - BLDG. 1		
CORRESPONDENC	00078	NAVFAC -	REVISION 0		004	SW060629-01		
E		SOUTHWEST			005	IMAGED		
N62474-98-D-2076		DIVISION			006	APNT_007		
00501		R. WEISSENBORN			007			
					008			
					009			
					010			
					011			
					012			
					014			
					016			
					021			
					025 GROUP			
					026			
					027			
N00236 / 000324	01-26-2002	TETRA TECH EM	DRAFT FINAL FIELD SAMPLING	ADMIN RECORD	005	SOUTHWEST		
DS.0386.17562 &	<b>01-04-2002</b>	INC.	PLAN/QUALITY ASSURANCE PROJECT	INFO REPOSITORY	014	DIVISION - BLDG. 1		
SWDIV SER	00386	G. SWANSON	PLAN FOR REMOVAL ACTION	SENSITIVE		SW05072801		
06CA.GC/0033		NAVFAC -	CONFIRMATION SAMPLING - INCLUDES			IMAGED		
CORRESPONDENC		SOUTHWEST	SWDIV TRANSMITTAL LETTER BY G. CLARK			APNT_001		
E		DIVISION						
N62474-94-D-7609		G. CLARK						
00151								
N00236 / 000612	06-12-2003	TETRA TECH EM	08 JANUARY 2002 DRAFT RESTORATION	ADMIN RECORD	005	FRC - PERRIS	181-03-0188	BOX 0013
TC.A021.10074	<b>01-08-2002</b>	INC.	ADVISORY BOARD (RAB) MEETING	INFO REPOSITORY	014	SW060629-01	41031858	
MM	DO 0021		SUMMARY (INCLUDES MEETING AGENDA,		015	IMAGED		
N68711-00-D-0005		NAVFAC -	SIGN-IN SHEETS, AND VARIOUS		025	APNT_007		
00047		SOUTHWEST	HANDOUTS)		BLDG. 195			
		DIVISION						

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #						CD No.	FRC Box No(s)
N00236 / 000742	06-17-2003	TETRA TECH EM	INC.	15 JANUARY 2002 FINAL BASE	ADMIN RECORD	005	FRC - PERRIS	181-03-0188 BOX 0014
TC.A021.10075	<b>01-15-2002</b>			REALIGNMENT AND CLOSURE (BRAC)	INFO REPOSITORY	014	SW061005-01	41031858
MM	DO 0021			CLEANUP TEAM (BCT) MONTHLY TRACKING	SENSITIVE	015	IMAGED	
N68711-00-D-0005		NAVFAC -		MEETING AFTER ACTION REPORT		025	APNT_016	
00072		SOUTHWEST		(INCLUDES AGENDA, SIGN-IN SHEET, AND		028		
		DIVISION		VARIOUS HANDOUTS) [PORTION OF THE				
				SIGN-IN SHEET IS SENSITIVE]				
N00236 / 000354	04-10-2002	CRWQCB -		COMMENTS ON THE DRAFT WORK PLAN	ADMIN RECORD	004	FRC - PERRIS	181-03-0188 BOX 0001
2119.9285 (LMM)	<b>01-28-2002</b>	OAKLAND		FOR BASEWIDE GROUNDWATER	INFO REPOSITORY	005	SW060629-01	41031858
CORRESPONDENC	NONE	L. MEILLIER		MONITORING PROGRAM (PORTION OF THE	SENSITIVE	008	IMAGED	
E		NAVFAC -		DISTRIBUTION LIST IS SENSITIVE)		009	APNT_007	
NONE		SOUTHWEST				016		
00009		DIVISION				025 GROUP		
		R. WEISSENBORN				026		
						027		
						BLDG. 410		
						OU 1		
						UST 608-1		
N00236 / 000344	02-26-2002	IT CORPORATION		FINAL REMOVAL ACTION PROJECT PLANS	ADMIN RECORD	004	FRC - PERRIS	181-03-0188 BOX 0001
2923 & SWDIV SER	<b>02-08-2002</b>			(INCLUDES WORK PLAN, SITE HEALTH &	INFO REPOSITORY	005	SW060921-01	41031858
06CA.GC/0123	00060	NAVFAC -		SAFETY PLAN, QUALITY CONTROL PLAN,	SENSITIVE		IMAGED	
CORRESPONDENC		SOUTHWEST		SAMPLING & ANALYSIS PLAN, WASTE			APNT_005	
E		DIVISION		MANAGEMENT PLAN & ENVIRONMENTAL				
N62474-98-D-2076				PROTECTION PLAN), REV. 0 - DNAPL &				
00527				DISSOLVED SOURCE REMOVAL ACTION				
N00236 / 000743	06-17-2003	TETRA TECH EM	INC.	19 FEBRUARY 2002 FINAL BASE	ADMIN RECORD	005	FRC - PERRIS	181-03-0188 BOX 0014
TC.A021.10075	<b>02-19-2002</b>			REALIGNMENT AND CLOSURE (BRAC)	INFO REPOSITORY	014	SW070413-01	41031858
MM	DO 021			CLEANUP TEAM (BCT) MONTHLY TRACKING	SENSITIVE	015	IMAGED	
N68711-00-D-0005		NAVFAC -		MEETING MINUTES FOR THE AFTER		OU 4B	APNT_022	
00131		SOUTHWEST		ACTION REPORT (INCLUDES AGENDA, SIGN-		OU 4C		
		DIVISION		IN SHEET, AND VARIOUS HANDOUTS)				
				[PORTION OF THE SIGN-IN SHEET IS				
				SENSITIVE]				

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 000617 TC.A021.10074 MM N68711-00-D-0005 00047	06-12-2003 <b>03-05-2002</b> DO 0021	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	05 MARCH 2002 DRAFT RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES MEETING AGENDA, SIGN-IN SHEETS, AND VARIOUS HANDOUTS)	ADMIN RECORD INFO REPOSITORY	004 005 014 015 018 028 OU 1 OU 3	FRC - PERRIS SW060629-01 IMAGED APNT_007	181-03-0188 BOX 0013 41031858
N00236 / 000368 3951.0 CORRESPONDENC E N62474-98-D-2076 00011	06-18-2002 <b>05-15-2002</b> 00060	IT CORPORATION R. MILLAN NAVFAC - SOUTHWEST DIVISION G. CLARK	IT CORPORATION R. MILLAN NAVFAC - SOUTHWEST DIVISION G. CLARK	AMENDMENT TO THE FINAL REMOVAL ACTION PROJECT PLAN, REV. 0 - DNAPL & DISSOLVED SOURCE REMOVAL ACTION CONCERNING INSTALLATION OF WELL POINTS FOR DNAPL EXTRACTION AT PLUME 5-1 (SEE AR #344 - FINAL REMOVAL ACTION PROJECT PLAN)	ADMIN RECORD INFO REPOSITORY	004 005 BLDG. 5 OU 2B OU 2C	FRC - PERRIS SW060921-01 IMAGED APNT_005	181-03-0188 BOX 0002 41031858
N00236 / 000621 TC.A021.10074 MM N68711-00-D-0005 00058	06-12-2003 <b>06-04-2002</b> DO 0021	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	TETRA TECH EM INC.  NAVFAC - SOUTHWEST DIVISION	04 JUNE 2002 DRAFT RESTORATION ADVISORY BOARD (RAB) MEETING SUMMARY (INCLUDES MEETING AGENDA, SIGN-IN SHEETS, AND VARIOUS HANDOUTS) [MISSING SAMPLING LOCATIONS IN ATTACHMENT C]	ADMIN RECORD INFO REPOSITORY	004 005	FRC - PERRIS SW060629-01 IMAGED APNT_007	181-03-0188 BOX 0013 41031858

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	CTO No.	Recipient Affil.	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	EPA Cat. #	Recipient				CD No.	FRC Box No(s)
N00236 / 000406	08-06-2002	08-06-2002	TETRA TECH EM	DATA SUMMARY REPORT - SUPPLEMENTAL	ADMIN RECORD	003	FRC - PERRIS	181-03-0188 BOX 0003
DS.0385.15645	<b>07-25-2002</b>	<b>07-25-2002</b>	INC.	REMEDIAL INVESTIGATION DATA GAP	INFO REPOSITORY	004	SW060615-01 &	41031858 BOX 0004
REPORT	00385	00385	N. HUTCHISON	SAMPLING FOR OPERABLE UNITS 1 & 2, (OU		005	SW060615-02	
N62474-94-D-7609			NAVFAC -	1, OU 2) [VOLUMES 1-3 OF 3]		006	IMAGED	
02083			SOUTHWEST			009	APNT_004	
			DIVISION			013		
			G. LORTON			014		
						015		
						016		
						019		
						021		
						022		
						023		
						BLDG. 14		
						BLDG. 162		
						BLDG. 397		
						BLDG. 398		
						BLDG. 400		
						BLDG. 41		
						BLDG. 410		
						BLDG. 497		
						BLDG. 5		
						BLDG. 528		
						BLDG. 608		
						OU 1		
						OU 2		
						OU 2A		
						OU 2B		
						OU 2C		
N00236 / 000423	09-20-2002	09-20-2002	TETRA TECH EM	FINAL QUALITY CONTROL SUMMARY	ADMIN RECORD	005	FRC - PERRIS	181-03-0188 BOX 0005
TC.0386.11682	<b>08-01-2002</b>	<b>08-01-2002</b>	INC.	REPORT FOR REMOVAL ACTION	INFO REPOSITORY	014	SW060601-02	41031858
REPORT	00386	00386	J. HELGE	CONFIRMATION SAMPLING			IMAGED	
N62474-94-D-7609			NAVFAC -				APNT_013	
00187			SOUTHWEST					
			DIVISION					

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.					Location	FRC Accession No.
Record Type	Record Date	Author	Author					SWDIV Box No(s)	FRC Warehouse
Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient Affil.					CD No.	FRC Box No(s)---
Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites			
N00236 / 000412	08-29-2002	TETRA TECH EM	TETRA TECH EM	DRAFT SUPPLEMENTAL ENVIRONMENTAL	ADMIN RECORD	001	FRC - PERRIS	181-03-0188	BOX 0004
TC.0190.11423 -	<b>08-16-2002</b>	INC.	INC.	BASELINE SURVEY	INFO REPOSITORY	002	SW071221-04	41031858	
MOD. 2	00190	G. FOULK	G. FOULK			003	IMAGED		
REPORT		NAVFAC -	NAVFAC -			004	APNT_027		
N62474-94-D-7609		SOUTHWEST	SOUTHWEST			005			
00417		DIVISION	DIVISION			006			
						007			
						008			
						009			
						010			
						011			
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						023			
						024			
						025			
						026			
						027			
						028			
						029			
						OU 1			
						OU 2A			
						OU 2B			
						OU 2C			
						OU 3			
						OU 4A			
						OU 4B			

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.	
Contr./Guid. No.	CTO No.	CTO No.	Recipient Affil.	Approx. # Pages	EPA Cat. #	Recipient	SWDIV Box No(s)	FRC Warehouse	
						Subject	CD No.	FRC Box No(s)	
							OU 4C		
							OU 5		
							OU 6		
N00236 / 000424	09-23-2002		IT CORPORATION	4427.0 AND SWDIV SER 06CA.GC/0826 REPORT N62474-98-D-2076 00392	<b>08-20-2002</b> 00071	DRAFT REMOVAL ACTION SITE CLOSEOUT REPORT, REVISION 0 - REMOVAL ACTION FOR SOIL REMOVAL AT THE AIRCRAFT REWORK FACILITY AND THE FORMER FIRE TRAINING AREA (INCLUDES SWDIV TRANSMITTAL LETTER BY G. CLARK) [PORTION OF THE MAILING LIST IS CONFIDENTIAL]	ADMIN RECORD 005 INFO REPOSITORY 014 SENSITIVE BLDG. 5 BLDG. 5A OU 1 OU 2C	FRC - PERRIS 181-03-0188 SW060601-02 41031858 IMAGED APNT_013	BOX 0005
N00236 / 000752	06-17-2003		TETRA TECH EM INC.	TC.A021.10075 MM N68711-00-D-0005 00028	<b>10-15-2002</b> DO 0021	15 OCTOBER 2002 FINAL BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP TEAM (BCT) MONTHLY TRACKING MEETING AFTER ACTION REPORT (INCLUDES AGENDA, SIGN-IN SHEET, AND VARIOUS HANDOUTS)	ADMIN RECORD 005 INFO REPOSITORY 006 007 011 013 014 015 025 OU 1 OU 2A	FRC - PERRIS 181-03-0188 SW060907-01 41031858 IMAGED APNT_003	BOX 0014
N00236 / 000454	01-29-2003		IT CORPORATION	5280.0 & SWDIV SER 06CA.GC\0318 REPORT N62474-98-D-2076 00390	<b>12-31-2002</b> 00071	FINAL REMOVAL ACTION SITE CLOSEOUT REPORT, REVISION 0 - REMOVAL ACTION FOR SOIL REMOVAL AT THE AIRCRAFT REWORK FACILITY AND THE FORMER FIRE TRAINING AREA (INCLUDES SWDIV TRANSMITTAL LETTER BY G. CLARK) [PORTION OF THE MAILING LIST IS SENSITIVE]	ADMIN RECORD 005 INFO REPOSITORY 014 SENSITIVE BLDG. 5 OU 1 OU 2C	FRC - PERRIS 181-03-0188 SW060601-03 41031858 IMAGED APNT_014	BOX 0009

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	CTO No.	Recipient Affil.	Approx. # Pages	EPA Cat. #	Recipient	SWDIV Box No(s)	FRC Warehouse
							CD No.	FRC Box No(s)
N00236 / 000995	08-20-2003	TETRA TECH EM	21 JANUARY 2003 FINAL BASE	ADMIN RECORD	001	SOUTHWEST		
TC.A021.10125	<b>01-21-2003</b>	INC.	REALIGNMENT AND CLOSURE (BRAC)	INFO REPOSITORY	005	DIVISION - BLDG. 1		
MM	DO 0021		CLEANUP TEAM (BCT) MONTHLY TRACKING	SENSITIVE	007	SW061120-02		
N68711-00-D-0005		NAVFAC -	MEETING AFTER ACTION REPORT		009	IMAGED		
00047		SOUTHWEST	(INCLUDES AGENDA, SIGN-IN SHEET, AND		011	APNT_023		
		DIVISION	HANDOUT MATERIALS) [PORTION OF THE		013			
			SIGN-IN SHEET IS SENSITIVE]		014			
					015			
					016			
					017			
					020			
					021			
					027			
					028			
					029			
					OU 5			
N00236 / 001921	01-05-2005	CRWQCB - SAN	COMMENTS ON THE DRAFT REMEDIAL	ADMIN RECORD	005	SOUTHWEST		
NONE	<b>04-04-2003</b>	FRANCISCO	INVESTIGATION REPORT FOR THE	INFO REPOSITORY	026	DIVISION - BLDG. 1		
CORRESPONDENC	NONE	J. HUANG	WESTERN HANGAR ZONE (PORTION OF	SENSITIVE	BLDG. 23	SW060615-04		
E		NAVFAC -	THE MAILING LIST IS CONFIDENTIAL)		BLDG. 24	IMAGED		
NONE		SOUTHWEST				APNT_006		
00004		DIVISION						
		G. CLARK						
N00236 / 001000	08-20-2003	TETRA TECH EM	FINAL BASE REALIGNMENT AND CLOSURE	ADMIN RECORD	004	SOUTHWEST		
TC.A021.10125	<b>04-15-2003</b>	INC.	(BRAC) CLEANUP TEAM (BCT) MONTHLY	INFO REPOSITORY	005	DIVISION - BLDG. 1		
MM	DO 0021		TRACKING MEETING MINUTES AFTER		014	SW05072801		
N68711-00-D-0005		NAVFAC -	ACTION REPORT FOR THE 15 APRIL 2003 -		015	IMAGED		
00033		SOUTHWEST	INCLUDES AGENDA, SIGN-IN SHEET, AND		OU 1	APNT_001		
		DIVISION	HANDOUT MATERIALS		OU 2A			
					OU 2B			
					OU 5			

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #						CD No.	FRC Box No(s)
N00236 / 000502	06-03-2003	BECHTEL	DRAFT WORK PLAN FOR ASSESSMENT OF	ADMIN RECORD	003	FRC - PERRIS	181-03-0188	BOX 0012
CTO-0059/0010 & SWDIV	<b>05-19-2003</b>	ENVIRONMENTAL, INC.	POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)	INFO REPOSITORY	004	SW060615-03	41031858	
06CA.GC/0840	00059	E. JOHANSEN	CONTAMINATIONAT SELECTED CERCLA SITES AND EBS PARCELS [INLCUDES	SENSITIVE	005	IMAGED		
REPORT		NAVFAC - SOUTHWEST	SWDIV TRANSMITTAL LETTER BY G. CLARK} {PORTIONS OF FIGURES AND		006	APNT_004		
N68711-95-D-7526		DIVISION	ATTACHMENT C ARE CONFIDENTIAL}		007			
00285					008			
					009			
					010			
					011			
					012			
					013			
					016			
					019			
					021			
					022			
					023			
					030			
					031			
					032			
					PARCEL 205			
					PARCEL 28			
					PARCEL 51			
N00236 / 000503	06-03-2003	SHAW	DENSE-NONAQUEOUS-LIQUID PHASE	ADMIN RECORD	005	FRC - PERRIS	181-03-0188	BOX 0012
5486.0	<b>05-23-2003</b>	ENVIRONMENTAL, INC.	(DNAPL) REMOVAL PILOT TEST REPORT FOR PLUME 5-1 (CD COPY OF APPENDICES	INFO REPOSITORY	PLUME 5-1	SW060615-03	41031858	
REPORT	00060	R. MILLAN	A THROUGH I IS ENCLOSED) [INCLUDES	SENSITIVE		IMAGED		
N62474-98-D-2076		NAVFAC - SOUTHWEST	SWDIV TRANSMITTAL LETTER BY G. CLARK} {PORTION OF THE MAILING LIST IS			APNT_004		
00096		DIVISION	CONFIDENTIAL}					

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.										
Record Type	Record Date	Author								Location		FRC Accession No.	
Contr./Guid. No.	CTO No.	Recipient Affil.								SWDIV Box No(s)		FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites					CD No.		FRC Box No(s)	
N00236 / 000772	08-04-2003	NAVFAC -	JULY 2003 ALAMEDA POINT FOCUS	ADMIN RECORD	001					FRC - PERRIS		181-03-0188	BOX 0016
NONE	<b>07-01-2003</b>	SOUTHWEST	ENVIRONMENTAL NEWSLETTER		002					SW070112-01		41031858	
PUB NOTICE	NONE	DIVISION			003					IMAGED			
NONE		M. MCCLELLAND			004					APNT_008			
00016		PUBLIC INTEREST			005								
					006								
					007								
					008								
					009								
					010								
					011								
					012								
					013								
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					028								
					029								
					030								
					031								
					032								

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.										
Record Type	Record Date	Author						Location		FRC Accession No.			
Contr./Guid. No.	CTO No.	Recipient Affil.						SWDIV Box No(s)		FRC Warehouse			
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites		CD No.			FRC Box No(s)			
N00236 / 001988	03-10-2005	DTSC - BERKELEY	REVIEW AND COMMENTS ON THE DRAFT	ADMIN RECORD	003			SOUTHWEST					
NONE	<b>07-15-2003</b>	M. LIAO	WORK PLAN (WP) FOR THE ASSESSMENT		004			DIVISION - BLDG. 1					
CORRESPONDENC	NONE	NAVFAC -	OF POLYCYCLIC AROMATIC		005			SW060615-04					
E		SOUTHWEST	HYDROCARBON (PAH) CONTAMINATION AT		006			IMAGED					
NONE		DIVISION	SELECTED CERCLA SITES AND		007			APNT_006					
00006		G. CLARK	ENVIRONMENTAL BASELINE STUDY (EBS)		008								
			PARCELS (INCLUDES COMMENTS BY HERD		009								
			DATED 08 JULY 2003)		010								
					011								
					012								
					013								
					014								
					015								
					016								
					019								
					021								
					022								
					023								
					030								
					031								
					032								
					PARCEL 205								
					PARCEL 28								
					PARCEL 51								
N00236 / 000777	08-04-2003	SHAW	GROUNDWATER MONITORING REPORT	ADMIN RECORD	005			FRC - PERRIS		181-03-0188	BOX 0017		
5711 & SWDIV SER	<b>07-31-2003</b>	ENVIRONMENTAL,	FOR INSTALLATION RESTORATION SITE 5	INFO REPOSITORY				SW070829-01		41031858			
06CA.RW/1118	0078 & 0103	INC.	GROUP, SUMMER 2002 TO SPRING 2003 (CD					IMAGED					
REPORT		T. AULT	COPY OF APPENDICES A AND B					APNT_026					
N62474-98-D-2076		NAVFAC -	ENCLOSED) [INCLUDES REPLACEMENT										
00234		SOUTHWEST	PAGES ISSUED ON DIFFERENT DATES										
		DIVISION	WITH DIFFERENT DOCUMENT CONTROL										
			NUMBERS] (***SEE COMMENTS)										

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Record Type	Record Date	Author								Location	FRC Accession No.	
Contr./Guid. No.	CTO No.	Recipient Affil.								SWDIV Box No(s)	FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites					CD No.	FRC Box No(s)	
N00236 / 001803	04-22-2004	SULTECH	05 AUGUST 2003 FINAL RESTORATION	ADMIN RECORD	001					SOUTHWEST		
TC.B010.10187	<b>08-05-2003</b>		ADVISORY BOARD (RAB) MEETING	INFO REPOSITORY	002					DIVISION - BLDG. 1		
MM	00010	NAVFAC -	SUMMARY (INCLUDES MEETING AGENDA,		003					SW060814-01		
N68711-03-D-5104		SOUTHWEST	SIGN-IN SHEETS AND VARIOUS		005					IMAGED		
00034		DIVISION	HANDOUTS) [ATTENDANCE LIST IS MISSING]		006					APNT_014		
					007							
					008							
					009							
					011							
					014							
					016							
					021							
					025							
					026							
					027							
					BLDG. 195							
N00236 / 001541	08-20-2003	SHAW	DRAFT DENSE NON-AQUEOUS LIQUID	ADMIN RECORD	005					SOUTHWEST		
6502.0 & SWDIV	<b>08-15-2003</b>	ENVIRONMENTAL,	PHASE (DNAPL) REMOVAL ACTION	INFO REPOSITORY						DIVISION - BLDG. 1		
SER 06CA.GC/1185	00060	INC.	PROJECT PLAN ADDENDUM, REVISION 0	SENSITIVE						SW060921-01		
CORRESPONDENC		NAVFAC -	(INCLUDES QUALITY CONTROL PLAN							IMAGED		
E		SOUTHWEST	ADDENDUM, AND SAMPLING AND ANALYSIS							APNT_005		
N62474-98-D-2076		DIVISION	PLAN ADDENDUM) [INCLUDES SWDIV									
00099			TRANSMITTAL LETTER BY G. CLARK]									

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Approx. # Pages	EPA Cat. #	Recipient				CD No.		
N00236 / 001757	01-15-2004	NAVFAC -	SITE MANAGEMENT PLAN UPDATE -	ADMIN RECORD	001	SOUTHWEST		
SWDIV SER	<b>11-05-2003</b>	SOUTHWEST	[INCLUDES SWDIV TRANSMITTAL LETTER	INFO REPOSITORY	002	DIVISION - BLDG. 1		
06CA.AD/1416	NONE	DIVISION	BY M. MCCLELLAND]		003	SW060814-01		
REPORT		M. MCCLELLAND			004	IMAGED		
NONE		US EPA - SAN			005	APNT_014		
00033		FRANCISCO			006			
		A. COOK			007			
					008			
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					OU 1			
					OU 2A			
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					OU 2C			
					OU 3			
					OU 4A			
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					OU 6			

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Record Type	Record Date	Author						Location	FRC Accession No.	
Contr./Guid. No.	CTO No.	Recipient Affil.						SWDIV Box No(s)	FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites			CD No.	FRC Box No(s)	
N00236 / 001730 6561 REPORT N62474-98-D-2076 00075	11-19-2003 <b>11-11-2003</b> 00103	SHAW ENVIRONMENTAL, INC.  NAVFAC - SOUTHWEST DIVISION	GROUNDWATER MONITORING REPORT FOR SUMMER 2002 TO SPRING 2003, INSTALLATION RESTORATION (IR) SITE 5 GROUP (DOCUMENT WAS ISSUED WITH SECTION 6 ONLY AND REPLACEMENT PAGES) [***SEE COMMENTS]	ADMIN RECORD INFO REPOSITORY SENSITIVE	005			SOUTHWEST DIVISION - BLDG. 110		
N00236 / 001774 6698 & SWDIV SER 06CA.CG/0222 REPORT N62474-98-D-2076 00080	03-02-2004 <b>02-27-2004</b> 00103	SHAW ENVIRONMENTAL, INC.  NAVFAC - SOUTHWEST DIVISION	GROUNDWATER MONITORING REPORT FOR INSTALLATION RESTORATION (IR) SITE 5 GROUP, SUMMER 2002 TO SPRING 2003 (DOCUMENT WAS ISSUED WITH ORIGINAL SECTIONS 7 & 8 ONLY AND REPLACEMENT PAGES) [***SEE COMMENTS]	ADMIN RECORD INFO REPOSITORY	005			SOUTHWEST DIVISION - BLDG. 110		
N00236 / 001841 NONE PUB NOTICE NONE 00004	06-15-2004 <b>03-01-2004</b> NONE	PUBLIC INTEREST	NEWSLETTER REGARDING CLEANUP OPTIONS BEING EVALUATED	ADMIN RECORD IR-READY	005 009 014 015 016 025 026			SOUTHWEST DIVISION - BLDG. 1 SW060921-01 IMAGED APNT_005		



UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.	Record Type	Record Date	Author	Location	FRC Accession No.
Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
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N00236 / 001901	12-02-2004	NAVFAC -	NAVFAC -	TRANSMITTAL OF RESPONSE TO	ADMIN RECORD	001	SOUTHWEST	
SWDIV SER	<b>11-22-2004</b>	SOUTHWEST	SOUTHWEST	REGULATOR COMMENTS FOR THE SPRING	INFO REPOSITORY	002	DIVISION - BLDG. 1	
BPMOW.CXD/0129	NONE	DIVISION	DIVISION	2003 ALAMEDA POINT QUARTERLY		005	RECORD PULLED FOR	
MISC		R. PLASEIED	R. PLASEIED	GROUNDWATER REPORTS		007	REVIEW ON 2/6/08	
NONE		EPA - SAN	EPA - SAN			008		
00050		FRANCISCO	FRANCISCO			025		
N00236 / 001912	12-29-2004	BRAC PMO WEST	BRAC PMO WEST	REQUEST FOR A SIXTY DAY EXTENSION ON	ADMIN RECORD	005	SOUTHWEST	
BRAC SER	<b>12-21-2004</b>	T. MACCHIARELLA	T. MACCHIARELLA	DRAFT REMEDIAL INVESTIGATION REPORT	INFO REPOSITORY	010	DIVISION - BLDG. 1	
BPMOW.GC\0232	NONE	U.S. EPA - SAN	U.S. EPA - SAN			012	SW061106-01	
CORRESPONDENC		FRANCISCO	FRANCISCO			OU 2C	IMAGED	
E		A. COOK	A. COOK				APNT_021	
NONE								
00003								
N00236 / 001966	03-02-2005	SHAW	SHAW	GROUNDWATER MONITORING REPORT	ADMIN RECORD	005	SOUTHWEST	
8839 & SWDIV SER	<b>12-22-2004</b>	ENVIRONMENTAL,	ENVIRONMENTAL,	FOR INSTALLATION RESTORATION SITE 5	INFO REPOSITORY		DIVISION - BLDG. 110	
BPMOW.CD\0238	0078 & 0103	INC.	INC.	GROUP, SUMMER 2002 TO SPRING 2003				
REPORT		J. MCGUIRE	J. MCGUIRE	(DOCUMENT WAS ISSUED WITH REVISED				
N62474-98-D-2076		BRAC - SAN DIEGO	BRAC - SAN DIEGO	SECTIONS 7 & 8 ONLY AND REPLACEMENT				
00050				PAGES) [***SEE COMMENTS]				
N00236 / 002064	07-18-2005	SULTECH	SULTECH	DRAFT REMEDIAL INVESTIGATION REPORT	ADMIN RECORD	005	SOUTHWEST	
DS.B097.19932	<b>07-01-2005</b>	C. HUNTER	C. HUNTER	FOR OPERABLE UNIT AND VARIOUS SITES,	INFO REPOSITORY	010	DIVISION - BLDG. 1	
&SWDIVSER	00097	BRAC PMO WEST	BRAC PMO WEST	VOLUMES I THROUGH IV OF IV, FOLDERS 1-	SENSITIVE	012	SW061106-01 AND	
BPMOW.GC\0888				3 OF 3 [CD COPY ENCLOSED, PORTION OF		OU 2C	SW061106-02	
REPORT				MAILING LIST IS SENSITIVE] {SEE			IMAGED	
N68711-03-D-5104				COMMENTS}			APNT_021	
02100								
N00236 / 002080	08-18-2005	DTSC -	DTSC -	CLOSURE CERTIFICATION	ADMIN RECORD	005	SOUTHWEST	
NONE	<b>08-04-2005</b>	SACRAMENTO	SACRAMENTO	ACKNOWLEDGMENT FOR INDUSTRIAL	INFO REPOSITORY	IWTP 32	DIVISION - BLDG. 1	
CORRESPONDENC	NONE	M. SANDHU	M. SANDHU	WASTE TREATMENT PLANT (IWTP), EPA		OU 2C	SW061005-03	
E		NAVFAC -	NAVFAC -	ID# CA 2 170 023 (PER RPM T.			IMAGED	
NONE		SOUTHWEST	SOUTHWEST	MACCHIARELLA RECORD PERTAINS TO			APNT_019	
00003		DIVISION	DIVISION	CERCLA)				
		L. OCAMPO	L. OCAMPO					

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Contr./Guid. No.	CTO No.	Recipient Affil.	Recipient	Subject	Classification	Sites	SWDIV Box No(s)	FRC Warehouse
Approx. # Pages	EPA Cat. #	Recipient	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)
N00236 / 002120 NONE CORRESPONDENC E NONE 00001	09-19-2005 <b>08-25-2005</b> NONE	U.S. EPA - SAN FRANCISCO A. COOK BRAC PMO WEST T. MACCHIARELLA	U.S. EPA - SAN FRANCISCO A. COOK BRAC PMO WEST T. MACCHIARELLA	REQUEST FOR AN EXTENSION OF REVIEW ON THE DRAFT OPERABLE UNIT (OU) REMEDIAL INVESTIGATION (RI) REPORT	ADMIN RECORD INFO REPOSITORY	005 010 012 OU 2C	SOUTHWEST DIVISION - BLDG. 1 SW061106-02 IMAGED APNT_021	
N00236 / 002123 NONE CORRESPONDENC E NONE 00002	09-21-2005 <b>08-29-2005</b> NONE	DHS - SACRAMENTO P. LEINWANDER DTSC - SACRAMENTO M. LIAO	DHS - SACRAMENTO P. LEINWANDER DTSC - SACRAMENTO M. LIAO	REVIEW AND COMMENTS ON THE DRAFT REMEDIAL INVESTIGATION (RI) REPORT	ADMIN RECORD INFO REPOSITORY	005 010 012 OU 2C	SOUTHWEST DIVISION - BLDG. 1 SW061106-02 IMAGED APNT_021	
N00236 / 002147 NONE CORRESPONDENC E NONE 00026	11-03-2005 <b>10-03-2005</b> NONE	USEPA - SAN FRANCISCO A.M.COOK BRAC PMO WEST T. MACCHIARELLA	USEPA - SAN FRANCISCO A.M.COOK BRAC PMO WEST T. MACCHIARELLA	REVIEW AND COMMENTS ON THE DRAFT REMEDIAL INVESTIGATION REPORT (INCLUDES COMMENTS BY S. SERDA DATED 20 SEPTEMBER 2005)	ADMIN RECORD INFO REPOSITORY	005 010 012 OU 2C	SOUTHWEST DIVISION - BLDG. 1 SW061106-02 IMAGED APNT_021	
N00236 / 002148 NONE CORRESPONDENC E NONE 00039	11-03-2005 <b>10-06-2005</b> NONE	DTSC - BERKELEY M. LIAO BRAC PMO WEST T.L. MACCHIARELLA	DTSC - BERKELEY M. LIAO BRAC PMO WEST T.L. MACCHIARELLA	COMMENTS ON THE DRAFT REMEDIAL INVESTIGATION REPORT (INCLUDES COMMENTS BY GSU DATED 09/30/05 AND HERD DATED 08/25/05) [PORTION OF THE MAILING LIST IS SENSITIVE]	ADMIN RECORD INFO REPOSITORY SENSITIVE	005 010 012 OU 2C	SOUTHWEST DIVISION - BLDG. 1 SW061106-02 IMAGED APNT_021	
N00236 / 002146 NONE CORRESPONDENC E NONE 00003	11-03-2005 <b>10-14-2005</b> NONE	CRWQCB - OAKLAND J.C. HUANG BRAC PMO WEST T.L.MACCHIARELL A	CRWQCB - OAKLAND J.C. HUANG BRAC PMO WEST T.L.MACCHIARELL A	COMMENTS ON THE DRAFT REMEDIAL INVESTIGATION REPORT (PORTION OF THE MAILING LIST IS SENSITIVE)	ADMIN RECORD INFO REPOSITORY SENSITIVE	005 010 012 OU 2C	SOUTHWEST DIVISION - BLDG. 1 SW061106-02 IMAGED APNT_021	

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							CD No.						
N00236 / 002196	01-26-2006	SULTECH	COMPILATION OF SOLID WASTE		ADMIN RECORD	003	SOUTHWEST						
TC.B012.12263	<b>12-23-2005</b>	G. FOULK	MANAGEMENT UNIT EVALUATION		INFO REPOSITORY	004	DIVISION - BLDG. 1						
REPORT	00012	BRAC PMO WEST	REPORTS PREVIOUSLY SUBMITTED WITH			005	SW070817-03						
N68711-03-D-5104		L. OCAMPO	CERCLA DOCUMENTS, HAZARDOUS			006	IMAGED						
00449			WASTE PERMIT EPA ID NUMBER CA			007	APNT_025						
			2170023236			008							
						009							
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						EDC 5							
						OU 1							
						OU 2A							
						OU 2B							
						OU 2C							
						PBC 1A							
N00236 / 002157	11-17-2005	SHAW	FINAL FIELD ACTIVITIES REPORT, DNAPL		ADMIN RECORD	005	SOUTHWEST						
9573.0, 9573.1 &	<b>01-25-2006</b>	ENVIRONMENTAL,	(DENSE NON-AQUEOUS PHASE LIQUID)		INFO REPOSITORY	PLUME 5-1	DIVISION - BLDG. 1						
BRAC SER	CTO 0133	INC.	SOURCE REMOVAL ACTION, PLUME 5-1,		SENSITIVE		SW060921-04						
BPMOW.GS/1368		J. MCGUIRE	REVISION 1 (INCLUDES REPLACEMENT				IMAGED						
REPORT		BRAC PMO WEST	PAGES CONVERTING DRAFT DATED				APNT_006						
N62474-98-D-2076			11/09/05 TO FINAL)										
00091													

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Record Type	Record Date	Author	Author							SWDIV Box No(s)	FRC Warehouse
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N00236 / 002963	01-07-2008	INNOVATIVE	INNOVATIVE	SUMMER 2005 QUARTERLY	ADMIN RECORD	001				SOUTHWEST	
NONE	<b>03-01-2006</b>	TECHNICAL	TECHNICAL	GROUNDWATER MONITORING DATA	INFO REPOSITORY	002				DIVISION - BLDG. 110	
REPORT	00016	SOLUTIONS, INC.	SOLUTIONS, INC.	REPORT (INCLUDES ANALYTICAL DATA)		003					
N68711-02-D-8213		BRAC PMO WEST	BRAC PMO WEST			005					
30000						006					
						007					
						008					
						009					
						014					
						016					
						025					
						027					
						028					
						032					
N00236 / 002965	01-07-2008	INNOVATIVE	INNOVATIVE	FINAL SPRING 2006, ALAMEDA BASEWIDE,	ADMIN RECORD	001				CHOICE IMAGING	
NO. 02-125.11.05	<b>02-01-2007</b>	TECHNICAL	TECHNICAL	ANNUAL GROUNDWATER MONITORING	INFO REPOSITORY	002				SOLUTIONS	
REPORT	00016	SOLUTIONS, INC.	SOLUTIONS, INC.	REPORT, VOLUMES 1 AND 2 OF 2		003				SW080215-04	
N68711-02-D-8213		LEONARD, K.	LEONARD, K.	(INCLUDES ANALYTICAL DATA, CD COPY,		005					
25000		BRAC PMO WEST	BRAC PMO WEST	AND RESPONSE TO COMMENTS ON THE		006					
				DRAFT) {***SEE COMMENTS***}		007					
						008					
						009					
						014					
						016					
						027					
						028					
						032					
N00236 / 002773	06-04-2007	BRAC PMO WEST	BRAC PMO WEST	TRANSMITTAL OF DRAFT PROJECT WORK	ADMIN RECORD	BLDG 000005				SOUTHWEST	
BRAC SER	<b>05-29-2007</b>	MACCHIARELLA, T.	MACCHIARELLA, T.	PLAN (WP), TIME-CRITICAL REMOVAL	INFO REPOSITORY	BLDG 000400				DIVISION - BLDG. 1	
BPMOW.AB/0576	NONE	VARIOUS	VARIOUS	ACTION (TCRA), STORM DRAIN AND SEWER	SENSITIVE	SITE 00005				SW080118-02	
CORRESPONDENC		AGENCIES	AGENCIES	LINE (W/OUT ENCLOSURE) [SEE AR #2774 -		SITE 00010				IMAGED	
E				DRAFT PROJECT WORK PLAN (WP), TIME-						APNT_030	
NONE				CRITICAL REMOVAL ACTION (TCRA)]							
00005				{PORTION OF MAILING LIST IS SENSITIVE}							

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						Subject	CD No.	FRC Box No(s)	
N00236 / 002774	06-04-2007	05-29-2007	TETRA TECH EC, INC.	ECSD-RACIV-07-1211	00028	DRAFT PROJECT WORK PLAN (WP), TIME-CRITICAL REMOVAL ACTION (TCRA), STORM DRAIN AND SEWER LINE (SEE AR #2773 - BRAC PMO WEST TRANSMITTAL LETTER) {PORTIONS OF THE MAILING LIST ARE SENSITIVE}	ADMIN RECORD INFO REPOSITORY S	BLDG 000005 BLDG 000400 SITE 00005 SITE 00010	SOUTHWEST DIVISION - BLDG. 1 SW080118-02 IMAGED APNT_030
REPORT N62473-06-D-2201 00726			BRAC PMO WEST						
N00236 / 002776	06-05-2007	05-29-2007	BRAC PMO WEST	BRAC SER	05090	TRANSMITTAL OF DRAFT ACTION MEMORANDUM (AM), CERCLA TIME-CRITICAL REMOVAL ACTION (TCRA) FOR INSTALLATION RESTORATION (IR) SITES, STORM DRAIN AND SEWER LINE (SEE AR# 2777 - DRAFT ACTION MEMORANDUM)	ADMIN RECORD INFO REPOSITORY	BLDG 000005 BLDG 000400 SITE 00005 SITE 00010	SOUTHWEST DIVISION - BLDG. 1 SW080118-02
BPMOW.AB/0577 CORRESPONDENC E NONE 00003			T. MACCHIARELLA VARIOUS AGENCIES						
N00236 / 002777	06-05-2007	05-29-2007	TETRA TECH EC INC.	ECSD-RACIV 07-1212	00028	DRAFT ACTION MEMORANDUM (AM) CERCLA TIME-CRITICAL REMOVAL ACTION (TCRA) INSTALLATION RESTORATION (IR), SITES STORM DRAIN AND SEWER LINE (CD COPY IS ENCLOSED) [SEE AR # 2776 - BRAC TRANSMITTAL LETTER]	ADMIN RECORD INFO REPOSITORY	BLDG 000005 BLDG 000400 SITE 00005 SITE 00010	SOUTHWEST DIVISION - BLDG. 1 SW080118-02
REPORT N62473-06-D-2201 00245			BRAC PMO WEST						
N00236 / 002925	11-05-2007	07-10-2007	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH	NONE	NONE	REVIEW AND NO COMMENTS ON THE DRAFT ACTION MEMORANDUM, CERCLA TIME-CRITICAL REMOVAL ACTION, STORM DRAIN AND SEWER LINE [SEE AR # 2777 - DRAFT ACTION MEMORANDUM]	ADMIN RECORD INFO REPOSITORY	BLDG 000005 BLDG 000400 SITE 00005 SITE 00010	CHOICE IMAGING SOLUTIONS SW080118-04
CORRESPONDENC E NONE 00002			LEINWANDER, P. DTSC - SACRAMENTO LOFSTROM, D.						
N00236 / 002926	11-05-2007	07-10-2007	CA DEPARTMENT OF PUBLIC HEALTH	NONE	NONE	REVIEW AND NO COMMENTS ON THE DRAFT TIME-CRITICAL REMOVAL ACTION WORK PLAN, STORM DRAIN AND SEWER LINE [SEE AR # 2774 - DRAFT WORK PLAN]	ADMIN RECORD INFO REPOSITORY	BLDG 000005 BLDG 000400 SITE 00005 SITE 00010	CHOICE IMAGING SOLUTIONS SW080118-04
CORRESPONDENC E NONE 00002			LEINWANDER, P. DTSC - SACRAMENTO LOFSTROM, D.						

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Contr./Guid. No.	CTO No.	Recipient Affil.					SWDIV Box No(s)	FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)		
N00236 / 002927 2199.9285(EWS) CORRESPONDENC E NONE 00003	11-05-2007 <b>07-16-2007</b> NONE	CRWQCB - OAKLAND SIMON, E. BRAC PMO WEST MACCHIARELLAJ, T.	REVIEW AND COMMENTS ON THE DRAFT PROJECT WORK PLAN FOR THE STORM DRAIN AND SEWER LINE TIME-CRITICAL REMOVAL ACTION	ADMIN RECORD INFO REPOSITORY	BLDG 000005 BLDG 000400 SITE 00005 SITE 00010		CHOICE IMAGING SOLUTIONS SW080118-04		
N00236 / 002937 2199.9285(EWS) CORRESPONDENC E NONE 00002	11-07-2007 <b>07-16-2007</b> NONE	CRWQCB - OAKLAND SIMON, E. BRAC PMO WEST MACCHIARELLA, T.	REVIEW AND COMMENTS ON THE DRAFT ACTION MEMORANDUM FOR THE CERCLA TIME-CRITICAL REMOVAL ACTION (TCRA), STORM DRAIN AND SEWER LINE [SEE AR # 2777 - DRAFT ACTION MEMORANDUM]	ADMIN RECORD INFO REPOSITORY	BLDG 000005 BLDG 000400 SITE 00005 SITE 00010		CHOICE IMAGING SOLUTIONS SW080118-04		
N00236 / 002923 NONE CORRESPONDENC E NONE 00002	11-05-2007 <b>07-31-2007</b> NONE	DTSC - SACRAMENTO D. LOFSTROM BRAC PMO WEST T. MACCHIARELLA	REVIEW AND NO COMMENTS ON THE DRAFT ACTION MEMORANDUM, CERCLA TIME-CRITICAL REMOVAL ACTION STORM DRAIN AND SEWER LINE (W/ OUT ATTACHMENT) [SEE AR # 2777 - DRAFT ACTION MEMORANDUM AND AR # 2925 - ATTACHMENT]	ADMIN RECORD INFO REPOSITORY	BLDG 000005 BLDG 000400 SITE 00005 SITE 00010		CHOICE IMAGING SOLUTIONS SW080118-04		
N00236 / 002924 NONE CORRESPONDENC E NONE 00008	11-05-2007 <b>07-31-2007</b> NONE	DTSC - SACRAMENTO LOFSTROM, D. BRAC PMO WEST MACCHIARELLA, T.	REVIEW AND COMMENTS ON THE DRAFT PROJECT WORK PLAN, STORM DRAIN AND SEWER LINE TIME CRITICAL REMOVAL ACTION (TCRA) [SEE AR # 2774 - DRAFT PROJECT WORK PLAN]	ADMIN RECORD INFO REPOSITORY	BLDG 000005 BLDG 000400 SITE 00005 SITE 00010		CHOICE IMAGING SOLUTIONS SW080118-04		
N00236 / 002932 NONE CORRESPONDENC E NONE 00001	11-05-2007 <b>09-17-2007</b> NONE	US EPA - SAN FRANCISCO MONTGOMERY, M. BRAC PMO WEST MACCHIARELLA, T.	REVIEW AND NO FURTHER COMMENTS ON THE TIME CRITICAL REMOVAL ACTION MEMORANDUM, STORM DRAIN AND SEWER LINE REMOVAL [SEE AR # 2777 - DRAFT ACTION MEMORANDUM]	ADMIN RECORD INFO REPOSITORY	BLDG 000005 BLDG 000400 SITE 00005 SITE 00010		CHOICE IMAGING SOLUTIONS SW080118-04		

UIC No. / Rec. No.	Doc. Control No.	Prc. Date	Author Affil.						
Record Type	Record Date	Author					Location	FRC Accession No.	
Contr./Guid. No.	CTO No.	Recipient Affil.					SWDIV Box No(s)	FRC Warehouse	
Approx. # Pages	EPA Cat. #	Recipient	Subject	Classification	Sites	CD No.	FRC Box No(s)		
N00236 / 003044 BRAC SER BPMOW.TJW/0356 CORRESPONDENC E NONE 00002	03-31-2008 <b>03-25-2008</b> NONE	BRAC PMO WEST BROOKS, G. VARIOUS AGENCIES	TRANSMITTAL OF GEOTECHNICAL EXPLORATION WORK PLAN, STORM DRAIN AND SEWER LINE, TIME-CRITICAL REMOVAL ACTION (W/ OUT ENCLOSURE) [SEE AR # 3045 - GEOTECHNICAL EXPLORATION WORK PLAN]	ADMIN RECORD INFO REPOSITORY	BLDG 000005 BLDG 000400 SITE 00005 SITE 00010		SOUTHWEST DIVISION - BLDG. 1		
N00236 / 003045 ECSD-2201-0028- 0003 REPORT N62473-06-D-2201 00015	03-31-2008 <b>03-28-2008</b> 00028	TETRA TECH EC, INC. YOUNG, D. BRAC PMO WEST	GEOTECHNICAL EXPLORATION WORK PLAN, STORM DRAIN AND SEWER LINE, TIME-CRITICAL REMOVAL ACTION (CD COPY ENCLOSED) [SEE AR # 3044 - BRAC PMOW TRANSMITTAL LETTER]	ADMIN RECORD INFO REPOSITORY	BLDG 000005 BLDG 000400 SITE 00005 SITE 00010		SOUTHWEST DIVISION - BLDG. 1		

**Total Estimated Record Page Count: 80,646**

**Total - Administrative Records: 264**

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No Keywords

Sites=005;010;BLDG 000005;BLDG 000400;BLDG. 400;BLDG. 5

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## **APPENDIX B**

# **FEDERAL AND STATE CHEMICAL-, ACTION-, AND LOCATION-SPECIFIC ARARS FOR BUILDINGS 5 AND 400 STORM DRAIN AND SEWER LINE REMOVAL**

## APPENDIX B

### FEDERAL AND STATE CHEMICAL-, ACTION-, AND LOCATION-SPECIFIC ARARS FOR BUILDINGS 5 AND 400 STORM DRAIN AND SEWER LINE REMOVAL

Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
<b>FEDERAL CHEMICAL-SPECIFIC ARARS<sup>a</sup></b>				
<b>Resource Conservation and Recovery Act (42 U.S.C., ch. 82, §§ 6901–6991[i])<sup>c</sup></b>				
Defines RCRA hazardous waste. A solid waste is characterized as toxic, based on the TCLP, if the waste exceeds the TCLP maximum concentrations.	Waste.	Cal. Code Regs. tit. 22, § 66261.21, 66261.22(a)(1), 66261.23, 66261.24(a)(1), and 66261.100	Applicable	Applicable for determining whether waste is hazardous.
<b>Clean Water Act of 1977, as Amended (33 U.S.C., ch. 26, §§ 1251–1387)<sup>c</sup></b>				
National Pretreatment Standards apply to discharges to a POTW. Owners of sanitary sewer systems feeding into a POTW with a NPDES permit enforce those federal standards against the industrial dischargers via a local permit program.	Discharge to a POTW.	40 CFR § 403.5 and 403.6	Applicable	The substantive requirements are applicable to any discharges of wastewater or groundwater to the EBMUD POTW if the Navy chooses to discharge there.
<b>NRC Radiological Criteria</b>				
A site will be considered acceptable for unrestricted use if the residual radioactivity that is distinguishable from background radiation results in TEDE to an average member of the critical group that does not exceed 25 mrem/yr, including that from groundwater sources of drinking water, and that the residual radioactivity has been reduced to ALARA.	Existing NRC-licensed radiologically contaminated site.	10 CFR § 20.1402	Relevant and Appropriate	Regulation is not applicable because the site is not an NRC-licensed site. However, it is relevant and appropriate for an unrestricted land-use scenario since radiological material less than 1 pCi/g of <sup>226</sup> Ra above background will remain on site.
As a condition for license termination with restricted site use, the licensee must demonstrate that further reductions in residual radioactivity necessary to comply with the provisions of 10 CFR § 20.1402 would result in net public or environmental harm or were not being made because the residual levels associated with restricted conditions are ALARA.	Existing NRC-licensed radiologically contaminated site.	10 CFR § 20.1403(a)	Not an ARAR	Not an ARAR because the site is not an NRC-regulated site and unrestricted land use is intended for site.

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### FEDERAL AND STATE CHEMICAL-, ACTION-, AND LOCATION-SPECIFIC ARARS FOR BUILDINGS 5 AND 400 STORM DRAIN AND SEWER LINE REMOVAL

Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
As a condition for license termination with restricted site use, the licensee must make provisions for legally enforceable institutional controls that provide reasonable assurance that the TEDE from residual radioactivity distinguishable from background to the average member of the critical group will not exceed 25 mrem/yr.	Existing NRC-licensed radiologically contaminated site.	10 CFR § 20.1403(b)	Not an ARAR	Not an ARAR because the site is not an NRC-regulated site and unrestricted land use is intended for site.
Alternate criteria are allowed for license termination as long as assurance is provided that public health and safety would continue to be protected, and that it is unlikely that the dose from all man-made sources combined, other than medical, would be more than the 100 mrem/yr limit of subpart D, by submitting an analysis of possible sources of exposure; to the extent practical restrictions on site use are employed according to the provisions of § 20.1403 in minimizing exposures at the site; and doses are reduced to ALARA levels, taking into consideration any detriments such as traffic accidents expected to potentially result from decontamination and waste disposal.	Existing NRC-licensed radiologically contaminated site.	10 CFR § 20.1404(a)(1)–(a)(3)	Relevant and Appropriate	Not applicable because the site is not an NRC-regulated site. However, it is relevant and appropriate because radiological material will remain on site.  Alternate criteria are allowed for license termination since the DON has determined that public health and safety would continue to be protected.
Requires that the TEDE to individual members of the public not exceed 0.1 rem from licensed operation: construction, operation, and decommissioning of commercial reactors and fuel cycle facilities; possession, use, processing, exporting, and certain aspects of transporting nuclear materials and waste; and siting, design, construction, operations, and closure of waste disposal sites.	Existing NRC-licensed site.	10 CFR § 20.1301	Relevant and Appropriate	Not applicable because the site is not an NRC-regulated site. However, it is relevant and appropriate because it provides a health-based standard that is applicable for exposure to members of the public during removal actions in the event that effluents are released during the removal action.
Establishes limits for effluent releases to an unrestricted area particularly in the implementation of the provisions of Section 20.1302 which implement the radiation dose limits for the public at 10 CFR Section 20.1301.	Existing NRC-licensed site.	10 CFR pt. 20, app. B, Table 2	Applicable	This requirement is applicable to all removal actions performed as gaseous emissions of radionuclides may occur and is addressed by 10 CFR § 20.1301.

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### FEDERAL AND STATE CHEMICAL-, ACTION-, AND LOCATION-SPECIFIC ARARS FOR BUILDINGS 5 AND 400 STORM DRAIN AND SEWER LINE REMOVAL

Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
Provides a benchmark approach for setting cleanup levels for radionuclides as a supplement to 40 CFR Section 192.	Existing NRC-licensed site.	10 CFR pt. 40, app. A, pt. I, Criterion 6(6)	Relevant and Appropriate	Not applicable because the site is not is not an NRC-regulated site. However it is relevant and appropriate because soil and structures at the site have a radiological risk and 40 CFR § 192 is identified as an ARAR.
<b>Uranium Mill Tailings Radiation Control Act (42 U.S.C., ch. 88, § 192.02, 192.129[a] and [b], 192.42)<sup>c</sup></b>				
Standards for Cleanup of Land and Buildings Contaminated with <sup>226</sup> Ra, <sup>228</sup> Ra, and Thorium from Inactive Uranium Processing Sites.  As a result of residual radioactive materials from any designated processing site:  (a) The concentration of <sup>226</sup> Ra in land averaged over any area of 100 square meters shall not exceed the background level by more than:  (1) 5 pCi/g, averaged over the first 15 cm of soil below the surface, and  (2) 15 pCi/g, averaged over 15 cm thick layers of soil more than 15 cm below the surface.	UMTRCA sites (radioactivity above 5 pCi/g).	40 CFR §192.12(a) and 192.32(b)(2)	Relevant and Appropriate	Not applicable because the site is not an UMTRCA site. However, it is relevant and appropriate because soil is contaminated with <sup>226</sup> Ra.
<b>STATE CHEMICAL-SPECIFIC ARARS<sup>a</sup></b>				
Definition of “non-RCRA hazardous waste.”	Waste.	Cal. Code Regs. tit. 22, § 66261.3(a)(2)(C) or 66261.3(a)(2)(F), 66261.22(a)(3) and (4), 66261.24(a)(2)–(a)(8), 66261.101	Applicable	Applicable for determining whether a waste is a non-RCRA hazardous waste.

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### FEDERAL AND STATE CHEMICAL-, ACTION-, AND LOCATION-SPECIFIC ARARS FOR BUILDINGS 5 AND 400 STORM DRAIN AND SEWER LINE REMOVAL

Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
Definitions of designated waste, nonhazardous waste, and inert waste.	--	Cal. Code Regs. tit. 27, §§ 20210, 20220, and 20230	Applicable	Applicable for determining whether a waste is designated, nonhazardous, or inert.
Authorizes the SWRCB and regional Water Boards to establish in water quality control plans beneficial uses and numerical and narrative standards to protect both surface water and groundwater quality. Authorizes regional water boards to issue permits for discharges to land or surface or groundwater that could affect water quality, including NPDES permits, and to take enforcement action to protect water quality.	--	Cal. Water Code, div. 7, §§ 13241, 13243, 13263(a), 13269, and 13360 (Porter-Cologne Act)	Applicable	The DON accepts the substantive provisions of §§ 13241, 13243, 13263(a), 13269, and 13360 of the Porter-Cologne Act enabling legislation, as implemented through the beneficial uses, WQOs, waste discharge requirements, promulgated policies of the Basin Plan for the San Francisco Bay Region, as ARARs.
Describes the water basins in the San Francisco Bay Region, establishes beneficial uses of groundwater and surface water, establishes WQOs, including narrative and numerical standards, establishes implementation plans to meet WQOs and protect beneficial uses, and incorporates statewide water quality control plans and policies.	--	Comprehensive Water Quality Control Plan for the San Francisco Bay Region (Basin Plan) (Cal. Water Code § 13240)	Applicable	Substantive requirements pertaining to beneficial uses, WQOs, and certain statewide water quality control plans are state ARARs for the surface water and groundwater components of this response action. The MUN beneficial use of groundwater is not considered an ARAR because of the presence of saltwater intrusion; additional potential for saltwater intrusion if groundwater pumping were to occur; lack of supply wells; and state and county limitations on well construction. This determination was affirmed by the Water Board (RWQCB, 2003).

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### FEDERAL AND STATE CHEMICAL-, ACTION-, AND LOCATION-SPECIFIC ARARS FOR BUILDINGS 5 AND 400 STORM DRAIN AND SEWER LINE REMOVAL

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
<b>FEDERAL ACTION-SPECIFIC ARARS</b>					
<b>Resource Conservation and Recovery Act (42 U.S.C. §§ 6901–6991[i])<sup>c</sup></b>					
On-site waste generation	Person who generates waste shall determine if that waste is a hazardous waste.	Generator of waste	Cal. Code Regs. tit. 22, § 66262.10(a), 66262.11,	Applicable	Applicable for any operation where hazardous waste is generated. There is a potential for groundwater from one or more on-site monitoring wells to be classified as RCRA hazardous waste due to localized concentrations of benzene. The determination of whether groundwater and/or other wastes generated during the remedial activities, such as excess soil cuttings from well installation and treatment residues, are hazardous will be made at the time the wastes are generated.
	Requirements for analyzing waste for determining whether waste is hazardous.	Generator of waste	Cal. Code Regs. tit. 22, § 66264.13 (a) and (b)	Applicable	Applicable to characterization of hazardous waste.
Hazardous waste accumulation	On-site hazardous waste accumulation is allowed for up to 90 days as long as the waste is stored in containers in accordance with Cal. Code § 66264.171–178 or in tanks, on drip pads, inside buildings, is labeled and dated, etc.	Accumulate hazardous waste	Cal. Code Regs. tit. 22, § 66262.34	Applicable	Applicable where hazardous wastes will be generated.

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### FEDERAL AND STATE CHEMICAL-, ACTION-, AND LOCATION-SPECIFIC ARARS FOR BUILDINGS 5 AND 400 STORM DRAIN AND SEWER LINE REMOVAL

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
Container storage	Containers of RCRA hazardous waste must be: <ul style="list-style-type: none"> <li>• Maintained in good condition</li> <li>• Compatible with hazardous waste to be stored</li> <li>• Closed during storage except to add or remove waste.</li> </ul>	Container storage of RCRA hazardous waste not meeting small-quantity generator criteria before treatment, disposal, or storage elsewhere	Cal. Code Regs. tit. 22, § 66264.171, .172, .173	Applicable	Substantive provisions are applicable if waste is determined to be RCRA hazardous.
	Inspect container storage areas weekly for deterioration.	--	Cal. Code Regs. tit. 22, § 66264.174	Applicable	Substantive provisions are applicable if waste is determined to be RCRA hazardous.
	Place containers on a sloped, crack-free base, and protect from contact with accumulated liquid. Provide containment system with a capacity of 10 percent of the volume of containers of free liquids. Remove spilled or leaked waste in a timely manner to prevent overflow of the containment system.	Storage in a container of RCRA hazardous waste not meeting small-quantity generator criteria before treatment, disposal, or storage elsewhere	Cal. Code Regs. tit. 22, § 66264.175 (a) and (b)	Applicable	Substantive provisions are applicable if waste is determined to be RCRA hazardous.
	Keep incompatible materials separate. Separate incompatible materials stored near each other by a dike or other barrier.	--	Cal. Code Regs. tit. 22, § 66264.177	Applicable	Applicable for storing hazardous wastes in containers on site.
	At closure, remove all hazardous waste and residues from the containment system, and decontaminate or remove all containers and liners.	--	Cal. Code Regs. tit. 22, § 66264.178	Applicable	Applicable for storing hazardous wastes in containers on site.

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Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
Waste Pile	Allows generators to accumulate solid remediation waste in a U.S. EPA-designated pile for storage only, up to 2 years, during remedial operations without triggering LDRs.	Hazardous remediation waste temporarily stored in piles.	40 CFR § 264.554(d)(1)(i-ii) and (d)(2), (e), (f), (h), (i), (j), and (k)	Applicable	Applicable to temporary storage (less than two years) of solid, non-flowing, hazardous remediation waste.
Closure of waste pile	At closure, owner shall remove or decontaminate all waste residues, contaminated containment system components, contaminated subsoils, and structures and equipment contaminated with waste and leachate, and manage them as hazardous waste. If waste is left on site, perform postclosure care in accordance with the closure and postclosure care requirements that apply to landfills.	Waste pile used to store hazardous waste.	Cal. Code Regs. tit. 22, § 66264.258(a) and (b) except references to procedural requirements	Applicable	Applicable to closure of staging piles.
<b>Atomic Energy Act of 1954 (42 U.S.C. ch. 23, § 2011 et seq.)<sup>c</sup></b>					
Radiological material/waste storage and control	The licensee shall secure from unauthorized removal or access licensed materials stored in controlled or unrestricted areas.	Existing NRC-licensed site.	10 CFR § 20.1801	Relevant and Appropriate	Not applicable because the site is not an NRC-regulated site. It is relevant and appropriate for the site because of the presence of radionuclides.
	The licensee shall control and maintain constant surveillance of licensed material in a controlled or unrestricted area and not in storage.	Existing NRC-licensed site.	10 CFR § 20.1802	Relevant and Appropriate	Not applicable because the site is not an NRC-regulated site. It is relevant and appropriate for the site because of the presence of radionuclides.
Discharge of radiological waste into sanitary sewer system	A licensee may discharge licensed material into sanitary sewerage if each of the following conditions is satisfied: (1) the material is readily soluble in water; and		10 CFR § 20.2003(a)	Relevant and Appropriate	Relevant and appropriate because groundwater may be discharged into the sanitary sewer system.

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**FEDERAL AND STATE CHEMICAL-, ACTION-, AND LOCATION-SPECIFIC ARARS FOR BUILDINGS 5 AND 400 STORM DRAIN AND SEWER LINE REMOVAL**

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
	<p>(2) the quantity that the licensee releases into the sewer in 1 month divided by the average monthly volume of water released does not exceed the concentration listed in Table 3 of Appendix B to Part 20; and</p> <p>(3) if more than one radionuclide is released,</p> <p>(i) the licensee shall determine the fraction of the limit in Table 3 of Appendix B to Part 20 represented by discharges into sanitary sewerage by dividing the actual monthly average concentration of each radionuclide released by the licensee into the sewer by the concentration of that radionuclide listed in Table 3 of Appendix B to Part 20; and</p> <p>(ii) the sum of the fractions for each radionuclide required by paragraph (a)(3)(i) of this section does not exceed unity; and</p> <p>(4) the total quantity of licensed and other radioactive material that the licensee releases into the sanitary sewerage system in a year does not exceed 5 curies (185 GBq) of hydrogen-3, 1 curie (37 GBq) of carbon-14, and 1 curie (37 GBq) of all other radioactive materials combined.</p>				

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### FEDERAL AND STATE CHEMICAL-, ACTION-, AND LOCATION-SPECIFIC ARARS FOR BUILDINGS 5 AND 400 STORM DRAIN AND SEWER LINE REMOVAL

Action	Requirement	Prerequisite	Citation	ARAR Determination	Comments
<b>Clean Water Act, as Amended (33 U.S.C., ch. 26, §§ 1251–1387)<sup>c</sup></b>					
Discharge to surface waters	Owners and operators of construction activities must be in compliance with discharge standards.	--	CWA Section 402 (33 U.S.C. ch. 26, § 1342); 40 CFR Part 122.26 (b)(15)(i) and Exhibit 1 thereto	Applicable	Applicable where pollutants may be discharged into surface water.
<b>STATE ACTION-SPECIFIC ARARs</b>					
Air Emissions	No person shall discharge into the atmosphere from any source whatsoever any air contaminant, other than uncombined water vapor, for a period or periods aggregating more than 3 minutes in any 1 hour that is as dark or darker in shade as that designated as No. 2 on the Ringelmann Chart, as published by the United States Bureau of Mines, or of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke.	Air emissions.	Cal. Health & Safety Code § 41701	Applicable	Applicable to site operations when dust is being generated and implemented through BAAQMD Regulation 6-301.

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### FEDERAL AND STATE CHEMICAL-, ACTION-, AND LOCATION-SPECIFIC ARARS FOR BUILDINGS 5 AND 400 STORM DRAIN AND SEWER LINE REMOVAL

Location	Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
<b>FEDERAL LOCATION-SPECIFIC ARARs</b>					
<b>Coastal Zone Management Act (16 U.S.C. §§ 1451–1464)<sup>c</sup></b>					
Within coastal zone	Conduct activities in a manner consistent with approved state management programs.	Activities affecting the coastal zone including lands thereunder and adjacent shore land.	16 U.S.C. § 1456(c) 15 CFR § 930	Relevant and Appropriate	Relevant and Appropriate for sites within the coastal zone.
<b>Migratory Bird Treaty Act of 1972 (16 U.S.C. §§ 703–712)<sup>c</sup></b>					
Migratory bird area	Protects almost all species of native migratory birds in the U.S. from unregulated “take,” which can include poisoning at hazardous waste sites.	Presence of migratory birds.	16 U.S.C. § 703	Relevant and Appropriate	The paved urban habitat at Sites 5 and 10 does not support special-status species. Migratory birds are not likely to be exposed to radiologically contaminated materials or affected by remedial activities. Coordination with the USFWS during planning and implementation of remedial activities may be sought to further minimize potential risk.
<b>Endangered Species Act of 1973 (16 U.S.C. §§ 1531–1543)<sup>c</sup></b>					
Habitat upon which endangered species or threatened species depend	Federal agencies may not jeopardize the continued existence of any listed species or cause the destruction or adverse modification of critical habitat. The Endangered Species Committee may grant an exemption for agency action if reasonable mitigation and enhancement measures such as propagation, transplantation, and habitat acquisition and improvement are implemented.	Determination of effect upon endangered or threatened species or its habitat. Critical habitat upon which endangered species or threatened species depend.	16 U.S.C. § 1536(a), (h)(1)(B)	Not an ARAR	The California least tern is known to exist at Alameda Point but not near Sites 5 and 10. Sites 5 and 10 remedial activities should not affect any areas that support special-status species or habitat.

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**FEDERAL AND STATE CHEMICAL-, ACTION-, AND LOCATION-SPECIFIC ARARS FOR BUILDINGS 5 AND 400 STORM DRAIN AND SEWER LINE REMOVAL**

Location	Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
<b>STATE LOCATION-SPECIFIC ARARS</b>					
Aquatic habitat/species	Action must be taken if toxic materials are placed where they can enter waters of the state. There can be no release that would have a deleterious effect on species or habitat.		CFGC 5650(a), (b), and (f)	Relevant and Appropriate	<p>The DON's position is that the United States Congress did not specifically waive federal sovereign immunity. Therefore, authority does not exist to authorize applicability of the CFGC. Nevertheless, this code section will be evaluated as a relevant and appropriate requirement for the DON's CERCLA response action. CFGC Section 5650 prohibits the release of toxic materials into waters of the State that would have a deleterious effect on species or habitat.</p> <p>While no direct deposition of material is expected to enter into or impact waters of the states, the substantive portions of this standard will be complied with as an ARAR. Any removal taking place in an area that may impact waters of the state will be conducted in such a way as to ensure that materials dug up will not be released into the water column.</p>

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**FEDERAL AND STATE CHEMICAL-, ACTION-, AND LOCATION-SPECIFIC ARARS FOR BUILDINGS 5 AND 400 STORM DRAIN AND SEWER LINE REMOVAL**

Location	Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
Endangered species	Action must be taken to conserve endangered species; there can be no exporting or importing, taking, possessing, purchasing or selling endangered or threatened species.		CFGC 2080 (Added by Statute 1984, ch.1240, Section 2)	Not an ARAR	The DON's position is that the requisite federal sovereign immunity waiver does not exist to authorize applicability of the CFGC. The DON has conducted several studies for special-status species at Alameda Point. Based on those studies and surveys, the DON prepared a biological assessment that was used to support a consultation with the USFWS in accordance with the Endangered Species Act. No special-status species or their habitat has been identified at the response area. A large portion of response area is covered by paved runway surfaces and the remaining area is primarily covered by non-native annual grassland. Although habitat that may support special-status species exists within the response area, no recent records indicate these species occur at the site. Additionally, it is unlikely they will occur at the site because of historical use and disturbances.

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Location	Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
Fully protected bird species/habitat	Action must be taken to prevent the taking of fully protected birds.		CFGC 3511 (Added by Statute 1970, ch. 1036, pt. 1848, Section 4)	Relevant and Appropriate	<p>The DON’s position is that the requisite federal sovereign immunity waiver does not exist to authorize applicability of the CFGC. Nevertheless, this code section will be evaluated as a relevant and appropriate requirement for the DON’s CERCLA response action.</p> <p>To prevent direct impacts to any special-status species, an environmental resource survey will be conducted by a qualified wildlife biologist not more than 48 hours prior to the start of field activities to confirm that no federally listed or state listed species are residing within the limits of the project activity areas. Biological monitoring will be conducted during field activities to confirm that no taking of fully protected birds occurs.</p>

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**FEDERAL AND STATE CHEMICAL-, ACTION-, AND LOCATION-SPECIFIC ARARS FOR BUILDINGS 5 AND 400 STORM DRAIN AND SEWER LINE REMOVAL**

Location	Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
Birds	Action must be taken to avoid the take or destruction of the nest or eggs of any bird.		CFGC 3503	Relevant and Appropriate	<p>The DON’s position is that the requisite federal sovereign immunity waiver does not exist to authorize applicability of the CFGC. Nevertheless, this code section will be evaluated as a relevant and appropriate requirement for the DON’s CERCLA response action.</p> <p>To prevent direct impacts to any special-status species, an environmental resource survey will be conducted by a qualified wildlife biologist not more than 48 hours prior to the start of field activities to confirm that no federally listed or state listed species are residing within the limits of the project activity areas. Biological monitoring will be conducted during field activities to confirm that no taking of fully protected birds occurs.</p>

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**FEDERAL AND STATE CHEMICAL-, ACTION-, AND LOCATION-SPECIFIC ARARS FOR BUILDINGS 5 AND 400 STORM DRAIN AND SEWER LINE REMOVAL**

Location	Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
Birds of prey	Action must be taken to prevent the take, possession, or destruction of any birds-of prey or their eggs.		CFGC 3503.5 (Added by Statutes 1985, ch. 1334, Section 6)	Relevant and Appropriate	<p>The DON’s position is that the requisite federal sovereign immunity waiver does not exist to authorize applicability of the CFGC. Nevertheless, this code section will be evaluated as a relevant and appropriate requirement for the DON’s CERCLA response action.</p> <p>To prevent direct impacts to any special-status species, an environmental resource survey will be conducted by a qualified wildlife biologist not more than 48 hours prior to the start of field activities to confirm that no federally listed or state listed species are residing within the limits of the project activity areas. Biological monitoring will be conducted during field activities to confirm that no taking of fully protected birds occurs.</p>

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Location	Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
Non-game birds	Actions must be taken to prevent the take of non-game birds.		CFGC 3800 (Added by Statutes 1971, ch. 1470, pt. 2906, Section 13)	Relevant and Appropriate	<p>The DON’s position is that the requisite federal sovereign immunity waiver does not exist to authorize applicability of the CFGC. Nevertheless, this code section will be evaluated as a relevant and appropriate requirement for the DON’s CERCLA response action. In addition, Section 121(e) of CERCLA exempts on-site CERCLA response actions from permit requirements. The DON follows the CERCLA process rather than these permitting processes when making CERCLA decisions.</p> <p>To prevent direct impacts to any special-status species, an environmental resource survey will be conducted by a qualified wildlife biologist not more than 48 hours prior to the start of field activities to confirm that no federally listed or state listed species are residing within the limits of the project activity areas. Biological monitoring will be conducted during field activities to confirm that no taking of fully protected birds occurs.</p>

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Location	Requirement	Prerequisite	Citation <sup>b</sup>	ARAR Determination	Comments
<b>California Coastal Act of 1976<sup>c</sup></b>					
Coast	Regulates activities associated with development to control direct significant impacts on coastal waters and to protect state and national interests in California coastal resources.	Any activity which could impact coastal waters and resources.	Cal. Pub. Res. Code §§ 30210-30224	Relevant and Appropriate	The Act is considered relevant and appropriate because storm sewer removal has the potential to discharge contaminants into the San Francisco Bay.

**Notes:**

- <sup>a</sup> Many action-specific ARARs contain chemical-specific limitations and are addressed in the action-specific ARAR tables.
- <sup>b</sup> Only the substantive provisions of the requirements cited in this table are ARARs.
- <sup>c</sup> Statutes and policies, and their citations, are provided as headings to identify general categories of ARARs for the convenience of the reader; listing the statutes and policies does not indicate that the DON accepts the entire statutes or policies as ARARs; specific ARARs are addressed in the table below each general heading; only pertinent substantive requirements of the specific citations are considered ARARs.

**Abbreviations and Acronyms:**

<p>§ – Section                  ALARA – as low as is reasonably achievable                  app. – appendix                  ARAR – applicable or relevant and appropriate requirement                  BAAQMD – Bay Area Air Quality Management District                  Basin Plan – Comprehensive Water Quality Control Plan for the San Francisco Bay                  Cal. – California                  Cal. Code Regs. – California Code of Regulations                  CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act                  CFGC – California Fish and Game Code                  CFR – Code of Federal Regulations                  ch. – chapter                  cm – centimeter                  CWA – Clean Water Act                  div. – division                  DON – Department of the Navy                  EBMUD – East Bay Municipal Utilities District                  GBq – gigabecquerel                  LDR – land disposal restriction                  mrem/yr – millirems per year                  MUN – municipal and domestic water supply                  NPDES – National Pollutant Discharge Elimination System                  NRC – Nuclear Regulatory Commission                  2201-0028-0002 ActionMemo.doc</p>	<p>pCi/g – picocuries per gram                  pt. – part                  POTW – publicly owned treatment works  <sup>226</sup>Ra – radium-226  <sup>228</sup>Ra – radium-228                  RCRA – Resource Conservation and Recovery Act                  RWQCB – Regional Water Quality Control Board                  SWRCB – State Water Resources Control Board                  TCLP – Toxicity Characteristic Leaching Procedure                  TEDE – Total Effective Dose Equivalent                  tit. – title                  U.S. – United States                  U.S. EPA – United States Environmental Protection Agency                  U.S.C – United States Code                  UMTCRA – Uranium Mills Tailings Radiation Control Act                  USFWS – U.S. Fish and Wildlife Service                  Water Board – San Francisco Bay Water Board                  WL – Working Level                  WQO – Water Quality Objective</p>
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