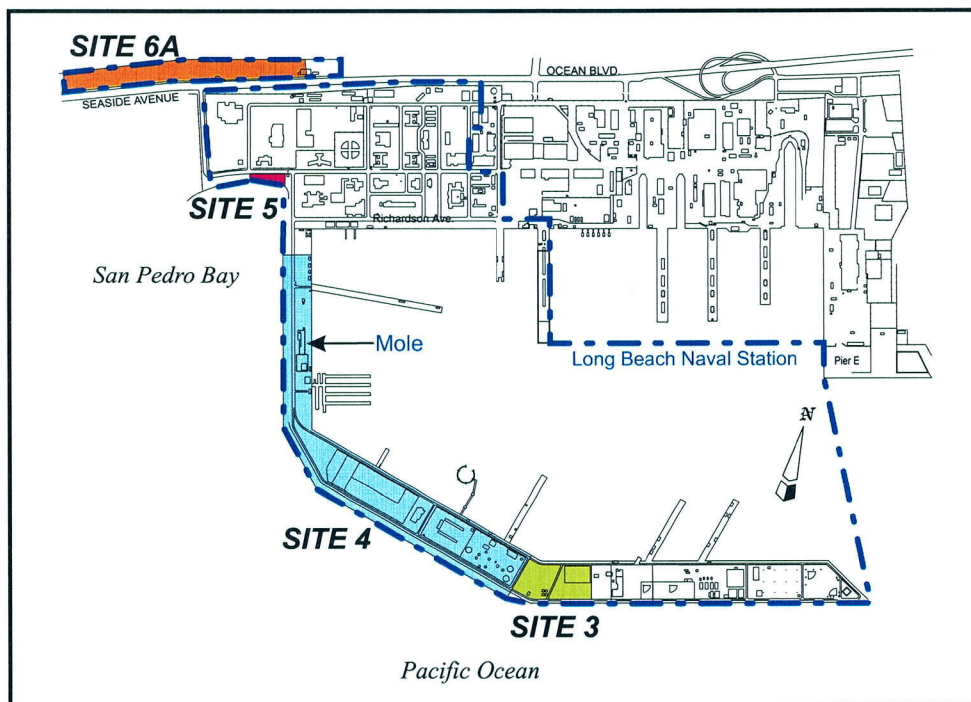


FINAL
**RECORD OF DECISION FOR
INSTALLATION RESTORATION SITES 3, 4, 5, AND 6A**

**NAVAL STATION LONG BEACH
LONG BEACH, CALIFORNIA**



Prepared for

and



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April 29, 1999

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SAN DIEGO, CALIFORNIA 92132-5190**

April 29, 1999

DECLARATION FOR THE RECORD OF DECISION

SITE NAME AND LOCATION

Installation Restoration (IR) Sites 3, 4, 5, and 6A
Naval Station (NAVSTA) Long Beach, Los Angeles County, California

STATEMENT OF BASIS AND PURPOSE

This decision document presents the selected remedial actions for IR Sites 3, 4, 5, and 6A (located within Operable Units 1 and 2) at NAVSTA Long Beach, in Long Beach, California. These remedial actions were chosen in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986, and, to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The decisions for these sites are based on the information contained in the Administrative Record for the NAVSTA. The two primary documents used for the basis of the decisions are the Remedial Investigation (RI) Report for IR Sites 1 through 6A (BNI, 1996) and the Feasibility Study (FS) Report for IR Sites 3, 4, 5, and 6A (Battelle, 1998).

This document is issued by Department of the Navy (DON). The DON, with state regulatory oversight, is the lead federal agency for site activities. As the lead agency, the DON, with state concurrence, has final decision-making authority over the recommended alternatives selected and overall public participation activities. The DON is working in cooperation with the California Environmental Protection Agency (Cal-EPA) Department of Toxic Substances Control (DTSC), Los Angeles Regional Water Quality Control Board (RWQCB) and the U.S. Environmental Protection Agency (U.S. EPA) in the implementation of these remedial actions. All involved parties agree with the selected remedial actions that are selected in this Record of Decision (ROD).

ASSESSMENT OF THE SITE

The actual or threatened releases of hazardous substances from these sites, if not addressed by implementing the response action selected in this ROD, may present an imminent and substantial endangerment to public health, welfare, or the environment.

DESCRIPTION OF THE SELECTED REMEDY

This ROD addresses groundwater contamination and related vadose zone contamination at IR Sites 3, 4, 5, and 6A. The constituents of concern remain in groundwater at Sites 3, 4, 5, and 6A. However, the Los Angeles RWQCB has determined that the groundwater at the sites does not have beneficial uses affected by the remaining constituents. The continued monitoring of the groundwater is required by this ROD to assure that it does not migrate to surface waters at concentrations that exceed water quality objectives in the State Water Resources Control Board's Ocean Plan.

Institutional controls and long-term groundwater monitoring appear to offer the best balance of performance for IR Sites 3 and 6A. Based on the summary evaluations of the RI Report, and as a result of the removal action at Site 3, no contaminants of concern (COCs) or areas of concern (AOCs) are present at IR Sites 3 and 6A under an industrial risk scenario. Because the overall site risk, based on an

industrial exposure scenario, falls within the U.S. EPA target range of 10^{-4} to 10^{-6} , cleanup of soils and groundwater at the sites is not warranted. Based on the Local Redevelopment Authority (LRA) site Reuse Plan (City of Long Beach, 1995), industrial site use is the most likely future land use for IR Sites 3 and 6A. The following is a brief description of the rationale for selecting institutional controls and long-term groundwater monitoring at IR Sites 3 and 6A:

- Institutional controls by deed restrictions are selected as a method to prevent changes in future land use that may increase exposure risks at IR Sites 3 and 6A. Institutional controls would be implemented using existing legal procedures and would ensure that land usage at the sites remains industrial. Institutional controls could include provisions to prevent disturbance of monitoring systems and restrictions on land use for residential purposes, types of construction allowed, or use of groundwater.
- The current quarterly groundwater monitoring is necessary to ensure that migration of groundwater to marine ecosystems at concentrations in excess of the California Ocean Plan criteria is not occurring. The groundwater monitoring program for IR Sites 3 and 6A will continue until COPCs in groundwater are below screening criteria. The monitoring program will be evaluated annually to determine if continued monitoring is necessary.

Institutional controls appear to offer the best balance of performance for IR Sites 4 and 5. Based on the summary evaluations of the RI report, no COCs or AOCs are present at IR sites 4 and 5 under an industrial risk scenario. Based on the LRA site Reuse Plan, industrial site use is the most likely future land use for IR Sites 4 and 5. Because the overall site risk, based on an industrial exposure scenario, falls within the U.S. EPA site target range of 10^{-4} to 10^{-6} , cleanup of soils and groundwater at the sites is not warranted. The following paragraph briefly describes the rationale for selecting institutional controls.

- Institutional controls by deed restrictions are selected as a method to prevent changes in future land use that may increase exposure risks at IR Sites 4 and 5. Institutional controls ensures overall protection of human health and the environment. Because industrial risk at IR Sites 4 and 5 is very near the lower bound of the U.S. EPA's target range (10^{-4} to 10^{-6} for ELCR), groundwater monitoring is not warranted.

REMEDIAL ACTION PLAN

The California Health and Safety Code (H&SC) Section 25356.1 Remedial Action Plan (RAP) requirements have been incorporated into the ROD to fulfill state requirements. A copy of the California H&SC Section 25356.1 has been included in the ROD as Appendix A.

STATUTORY DETERMINATIONS

The selected remedy is protective of human health and the environment, complies with federal and state requirements that are legally applicable or relevant and appropriate to the remedial action, and is cost-effective. This remedy utilizes permanent solutions and alternative treatment technologies, to the maximum extent practicable for this site. However, because treatment of the principal threats of the site was not found to be practicable based on the intended future industrial use of the site, this remedy does not satisfy the statutory preference for treatment as a principal element.

Because this remedy will result in hazardous substances remaining on site above health-based levels, a review will be conducted within five years after commencement of remedial action to ensure that the remedy continues to provide adequate protection of human health and the environment

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June 7, 1999

Date

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June 25, 1999

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ACRONYMS AND ABBREVIATIONS

ACL	alternate concentration limit
AOC	area of concern
AOPC	area of potential concern
ARCO	Atlantic Richfield Company
ARAR	applicable or relevant and appropriate requirement
BCT	BRAC Cleanup Team
bgs	below ground surface
BNI	Bechtel National, Inc.
BRAC	Base Realignment and Closure
BTEX	benzene, toluene, ethylbenzene, and xylenes
Cal-EPA	California Environmental Protection Agency
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	contaminant of concern
COPC	chemical of potential concern
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
DCA	dichloroethane
DCB	dichlorobenzene
DCE	dichloroethene
DCP	dichloropropane
DHS	Department of Health Services (California)
DON	Department of the Navy
DTSC	Department of Toxic Substances Control (California)
DWC	Dominguez Water Corporation
DWR	Department of Water Resources (California)
ELCR	excess lifetime cancer risk
FEMA	Federal Emergency Management Agency
FOSET	finding of suitability for early transfer
FOSL	finding of suitability for lease
FOST	finding of suitability to transfer
FS	Feasibility Study
H&SC	Health and Safety Code
HHRA	Human Health Risk Assessment
IAS	Initial Assessment Study
IDL	Instrument Detection Limit
IR	Installation Restoration
IWS	Industrial Waste Study
JEG	Jacobs Engineering Group, Inc.

LBNC	Long Beach Naval Complex
LBNSY	Long Beach Naval Shipyard
LRA	Local Redevelopment Authority
MCL	maximum contaminant level
MDL	Method Detection Limit
MEK	methylethylketone
msl	mean sea level
NAVSTA	Naval Station
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NFA	No Further Action
NISZ	Newport-Inglewood Structural Zone
O&M	operations and maintenance
OHM	OHM Remediation Services Group
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PCE	perchloroethene
ppm	parts per million
PRG	preliminary remediation goal
QC	quality control
RAB	Restoration Advisory Board
RAP	Remedial Action Plan
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RI	Remedial Investigation
ROD	Record of Decision
RWQCB	Regional Water Quality Control Board
SARA	Superfund Amendments and Reauthorization Act
SCE-LBGS	Southern California Edison Long Beach Generating Station
SCS	SCS Engineering
SFA	supplemental field activity
SI	Site Investigation
STLC	soluble threshold limit concentration
SVOC	semivolatile organic compound
SWDIV	Southwest Division
SWRCB	State Water Resources Control Board (California)
TAL	Target Analyte List
TBC	to be considered
TBD	to be determined
TCE	trichloroethene
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TDS	total dissolved solids
TIC	tentatively identified compound
TPH	total petroleum hydrocarbons

TPHD	total petroleum hydrocarbon quantified as diesel
TPHG	total petroleum hydrocarbons quantified as gasoline
TSCA	Toxic Substances Control Act
TTLC	total threshold limit concentration
UCL	upper confidence limit
UNOCAL	Union Oil of California
U.S. EPA	United States Environmental Protection Agency
UTL	upper tolerance limit
VC	vinyl chloride
VOC	volatile organic compound
µg/dL	microgram per deciliter
µg/L	microgram per liter

Section 1: SITE LOCATION AND DESCRIPTION

1.1 Location of Installation Restoration (IR) Sites 3, 4, 5, and 6A. The Naval Station (NAVSTA) is located in the western portion of the Long Beach Naval Complex (LBNC). The LBNC is made up of the NAVSTA and the Long Beach Naval Shipyard (LBNSY), on the south side of Terminal Island within the Los Angeles and Long Beach Harbor districts, approximately 24 miles south of downtown Los Angeles. The NAVSTA is bounded by oilfields and container yards to the north, the Los Angeles Harbor facility to the west, the San Pedro Bay to the south, and the LBNSY to the east (Bechtel National, Inc. [BNI], 1996). Figure 1-1 is a map of the LBNC.

The NAVSTA property consists of the following:

- The western portion of the LBNC, including the mole
- Most of the Long Beach Harbor West Basin and submerged perimeter lands
- The western and southern edges of Pier E
- The strip of land bounded by Seaside Avenue and Ocean Boulevard to the south, and Union Pacific Railroad tracks to the north (BNI, 1996).

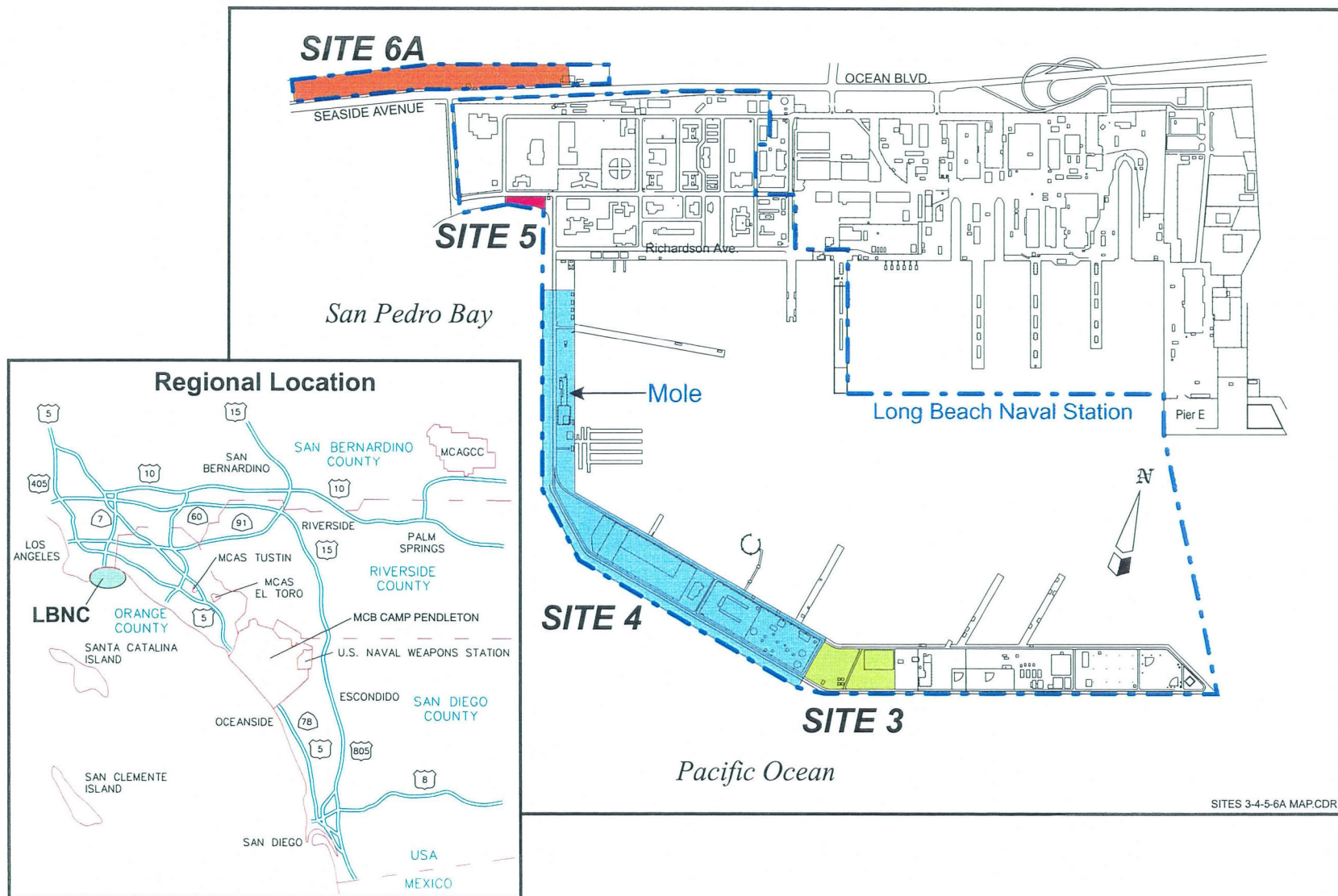
Installation Remediation (IR) Sites 3, 4, 5, and 6A are located at NAVSTA Long Beach, California. Figure 1-1 shows the location of these sites at the LBNC.

1.2 Regional Area and Setting. This section describes areas within and adjacent to the NAVSTA facility. Topics discussed in the following subsections include physiography, climate, geology, hydrology, hydrogeology, groundwater and surface water use, seismic activity, and the surrounding land use and populations.

1.2.1 Physiography. The LBNC property is located within the West Coast Basin, which extends from the Ballona Escarpment (at the south edge of Ballona Gap) and Baldwin Hills on the northwest, to the San Gabriel River on the southeast. The LBNC property is located within the Dominguez Gap area of the basin. Dominguez Gap consists of a nearly flat, broad, marine terrace platform, incised by the roughly north-south oriented river channel, eroded and partially backfilled by the ancestral Los Angeles River (BNI, 1996).

The LBNC property is relatively flat, with less than 35 feet total relief. The highest part of LBNC, the area along Pier T (eastern part of the LBNSY), varies from less than 15 feet above mean sea level (msl) at its northern end, to more than 20 feet above msl at its southern end. The lowest portion of the facility, the area northeast of Dry Dock 1, is less than 10 feet below msl. The top of the mole is between 12 and 15 feet above msl.

1.2.2 Climate. The local climate is classified as Mediterranean. It is characterized by warm, dry summers and mild winters. High pressure over the Los Angeles coastal basin blocks moist ocean air masses during most of the year. During winter months, however, the high-pressure system weakens, allowing storms from the northern Pacific Ocean to move into the area. For this reason, precipitation commonly occurs between November and March, and is generally less than 12 inches annually. The dominant wind direction is westerly (onshore). At night, however, cooled air from the mountains and hills typically flows down the valleys to the coast, producing a gentle offshore flow. During the late summer, winds may blow offshore as well. These northeasterly winds, referred to as Santa Ana winds, are high-speed, gusty winds that occasionally exceed 80 miles per hour (U.S. Department of the Navy [U.S. DON], 1983).



SITES 3-4-5-6A MAP.CDR

1.2.3 Geology. The geology of the West Coast Basin consists of up to about 14,000 feet of Miocene to Recent marine and continental sediments, overlying pre-Miocene basement material. The upper 500-700 ft of the stratigraphic column is composed of the San Pedro Formation, Lakewood Formation, Holocene (Recent) sediments, and constructed fill. Detailed information about the stratigraphic column can be found in the Remedial Investigation (RI) (BNI, 1996).

The LBNC is located in the northern part of the Peninsular Range Geomorphic Province, which is dominated by northwest-trending geologic structures. The dominant structural feature in the Long Beach area is the Newport-Inglewood Structural Zone (NISZ), expressed 4 miles northeast of LBNC by a chain of elongated, low hills and fault scarps caused by northwest-trending, left-stepping, en echelon faulting (Randall et al., 1983). Detailed information regarding major subsurface features and subsidence problems near LBNC can be found in the RI (BNI, 1996).

1.2.4 Hydrology/Flood Potential. Several surface water features, including beaches, parks, refuges, reserves, and rivers, are located within a 5-mile radius of LBNC. There are no reported surface intakes for drinking water within a 15-mile radius of LBNC. Terminal Island is surrounded by the following surface water bodies: Long Beach Middle Harbor West Basin, between the mole and mainland portion of LBNC; Long Beach Outer Harbor (San Pedro Bay), south and west of the mole; Los Angeles Main Channel and Turning and East Basins, on the west and northwest sides of Terminal Island; Cerritos Channel, on the northeast; and Back Channel, on the east. A breakwater separating San Pedro Bay from the Pacific Ocean is located about 1.6 miles south of the mole. The Los Angeles River drains into San Pedro Bay at a point located about 1 mile east of LBNC. The Dominguez Channel drains into the East Basin on the north side of Terminal Island between the Cerritos and Los Angeles Main Channels. Except for the West Basin, there are no surface water bodies within the boundary of LBNC.

Surface water drainage within the main portion of LBNC is generally toward its lowest topographic area, northeast of Dry Dock 1. Storm drains located throughout LBNC collect surface water runoff. Storm drains convey the runoff from the main portion of LBNC to pump stations, which discharge the water to the West Basin, in compliance with the appropriate discharge permits. On the north side of the mole, storm drains convey runoff into the West Basin. On the south side, runoff is conveyed to the outer harbor (Jacobs Engineering Group, Inc. [JEG], 1992).

According to Federal Emergency Management Agency (FEMA) flood insurance rate maps, Terminal Island is not within an area considered susceptible to flooding during a statistical 100- or 500-year flood (JEG, 1992). However, because of subsidence, portions of the LBNSY are below msl. These areas could be susceptible to flooding during high tide conditions if there were a breach of a seawall.

1.2.5 Hydrogeology. The Wilmington/Long Beach area has been designated by the Regional Water Quality Control Board (RWQCB), Los Angeles Region, as part of the southern portion of the West Coast Basin (RWQCB, 1975). Several water supply production zones (aquifers) have been identified within the Recent deposits, the upper Pleistocene Lakewood Formation, and the lower Pleistocene San Pedro Formation.

The shallowest water-bearing zone beneath Terminal Island is in the surficial deposits, comprising the man-made fills and near-surface native soils (upper Recent deposits). Groundwater is encountered in these sediments generally at a depth between ground level and 25 ft below ground surface (bgs), with the depth depending at least in part on ground surface elevation. Detailed information regarding the major aquifers reported in the West Coast Basin is provided in the RI (BNI, 1996). Although these major aquifers are important water-producing zones within the West Coast Basin, contamination by seawater intrusion has limited their usefulness in areas near the coast, including the Terminal Island area. Terminal

Island is surrounded by saline surface waters and groundwater in the upper Recent Deposits is nonpotable and saline, with a mineral content approaching that of seawater (JEG, 1993). The upper Recent Deposits are not identified as a potential water-producing zone by the California Department of Water Resources (DWR) (BNI, 1996). Several pumping stations that may be influencing the groundwater flow regime have been identified on or near the eastern part of Terminal Island. A list of these pumping activities is provided in the RI (BNI, 1996).

1.2.6 Groundwater/Surface Water Use. Two active municipal groundwater wells are located within 4 miles of the LBNC. Both wells are located inland of the Dominguez Gap Injection Barrier. They are operated by the Dominguez Water Corporation (DWC) and reportedly produce from the Silverado aquifer. The wells are typically operated between March and August each year and are dormant between August and March, when it is less expensive to purchase imported water.

Several active industrial water supply wells are located within 5 miles of the LBNC. These include at least seven active wells operated by the Atlantic Richfield Company (ARCO); two operated by Texaco Refining and Marketing, Inc.; and two operated by Union Oil of California (UNOCAL) (State of California Department of Water Resources [DWR], 1994). The wells are located inland from the Dominguez Gap Injection Barrier, and generally produce from the Silverado aquifer.

Water supply to the LBNC is provided by the cities of Long Beach and Los Angeles. The City of Long Beach supplies water for the LBNSY. No groundwater is reportedly used for the water supply at the LBNC (BNI, 1996).

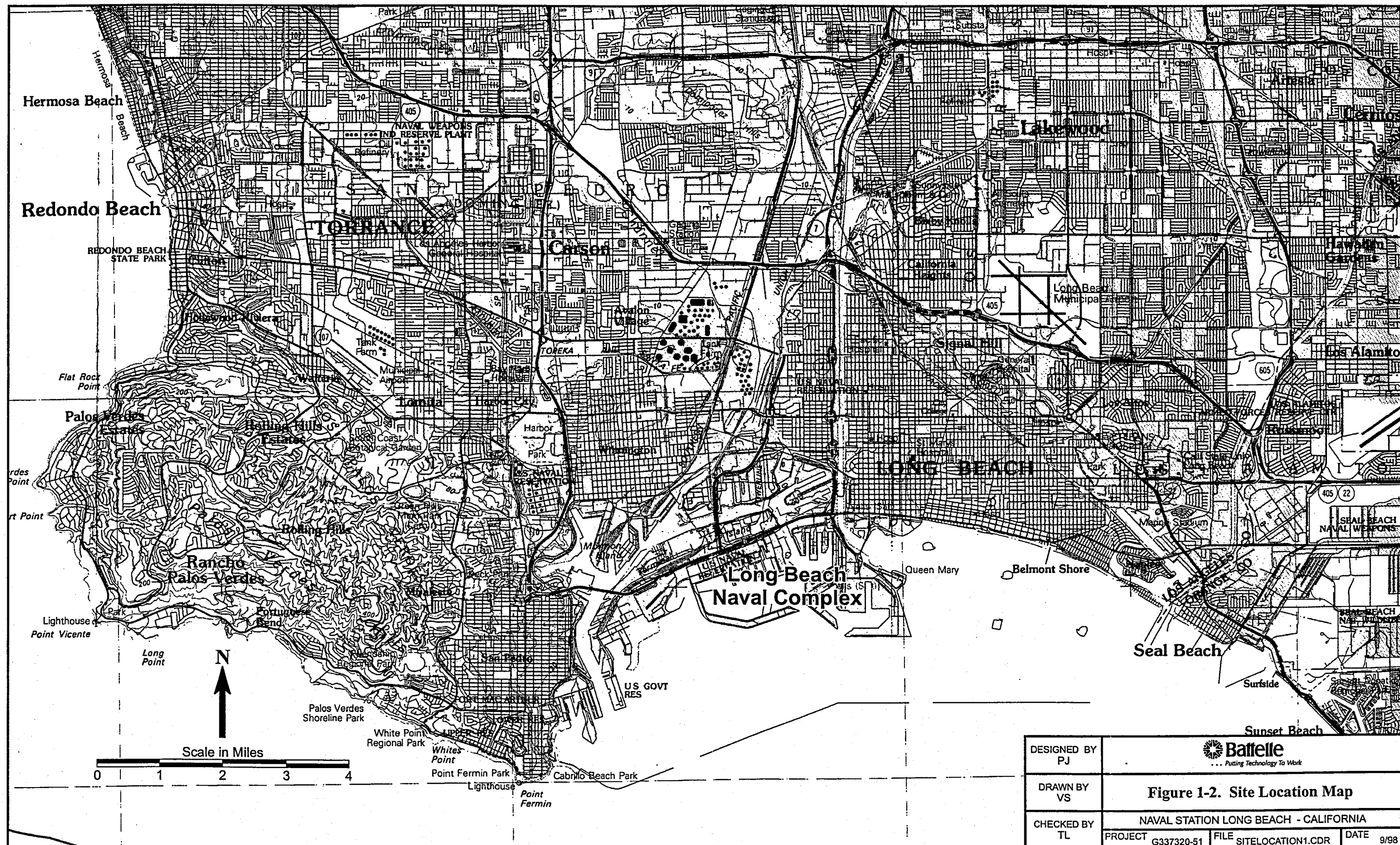
1.2.7 Seismic Activity. The LBNC is located near two known major faults: the Newport-Inglewood fault zone, located approximately 4 miles to the northeast of LBNC; and the Palos Verdes fault, located about 1.2 miles southwest of the mole. Detailed information regarding historical seismic activity of the two faults is located in the RI (BNI, 1996).

The San Andreas and San Jacinto faults are more distant faults that could produce significant ground shaking at LBNC. Because no known active faults actually pass through the LBNC, fault rupture at the site is not considered to be a credible hazard. Shallow groundwater conditions and the presence of deep cohesionless soils make liquefaction a concern in the event of significant ground shaking (BNI, 1996).

1.2.8 Surrounding Land Use and Populations. Land use in the vicinity of LBNC is port-related, commercial, or industrial (see Figure 1-2). Residential areas are more than 2 miles from the LBNC. The areas west and east of the LBNC are used for commercial shipping, liquid bulk handling, heavy industrial activities, and commercial fishing activities. The area north of the facility is used for oil production activities.

Land use includes primarily port uses, tank farms, automobile terminals, a cement terminal, cargo handling, cargo terminals, and Southern California Edison Long Beach Generating Station (SCE-LBGS). Land use in the area west of Terminal Island is port-related, and includes general cargo, liquid bulk, commercial fishing, institutional, industrial, container handling, as well as other commercial and recreational uses. Given the current use of nearby areas, continued industrial land use is a reasonable expectation for the future in the surrounding areas.

1.3 Site Descriptions. This section describes site arrangement and significant features associated with IR Sites 3, 4, 5, and 6A. Also in this section, areas of potential concern (AOPCs) are delineated for each site.



1.3.1 IR Site 3 Description. IR Site 3 extends from the mole Fuel Tank Farm to approximately 650 ft to the east (BNI, 1996) and covers an area of approximately 10 acres. Pier 15 is located adjacent, approximately 800 ft from the eastern edge of IR Site 3. Building 824, located on IR Site 3, is used for equipment storage. San Pedro Bay and Long Beach Harbor West Basin border IR Site 3 to the north and the south, respectively. IR Site 3 is flat and is generally covered with soil except for an asphalt-paved road that is located on the site. Figure 1-3 is a location map that shows AOPC delineations for IR Site 3. The following are AOPC delineations within IR Site 3:

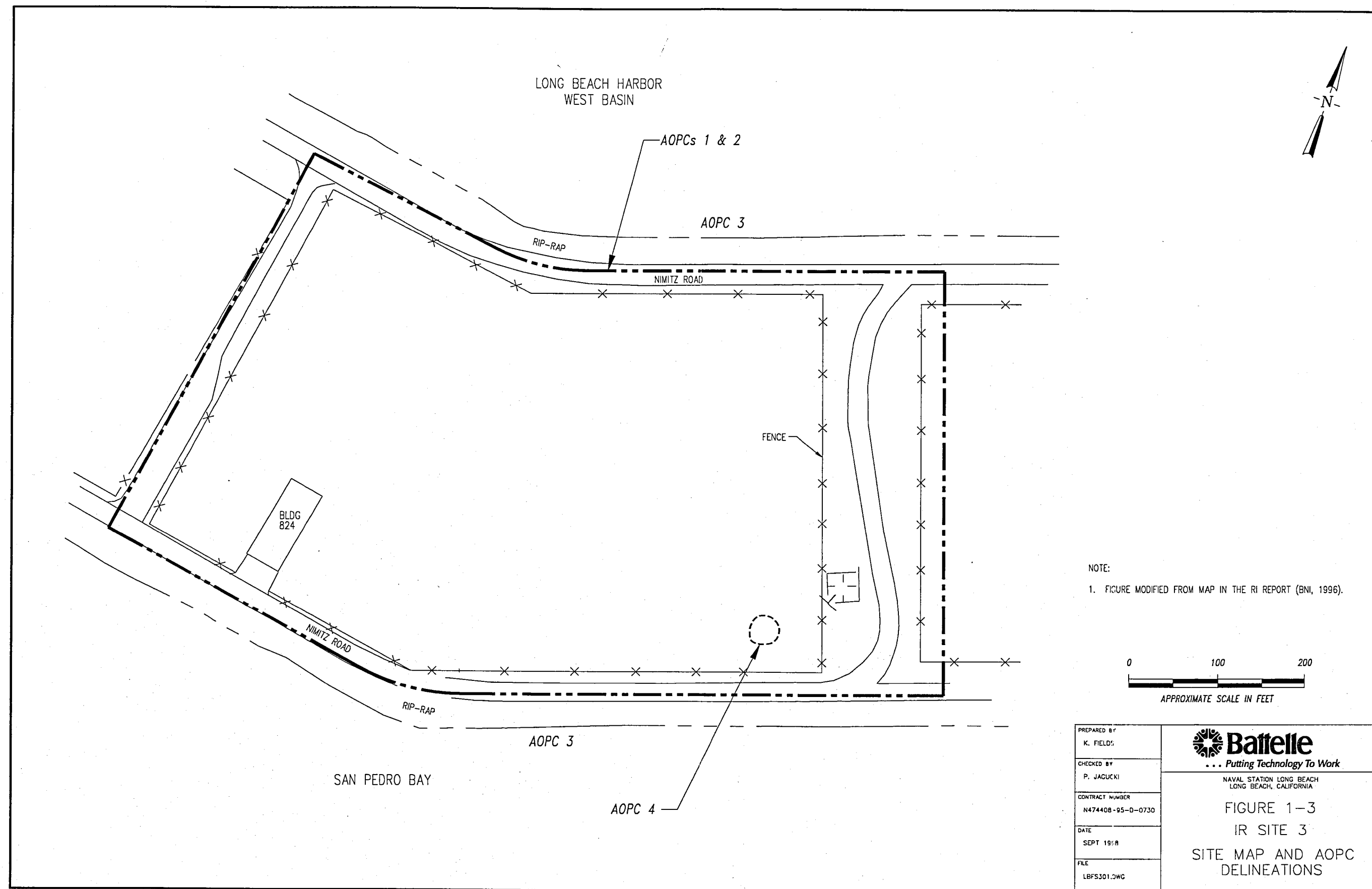
- AOPC 1—surface soils with the exception of the visibly stained area (AOPC 4)
- AOPC 2—subsurface soil and groundwater
- AOPC 3—harbor sediments (addressed in IR Site 7)
- AOPC 4—surface soil in the stained area.

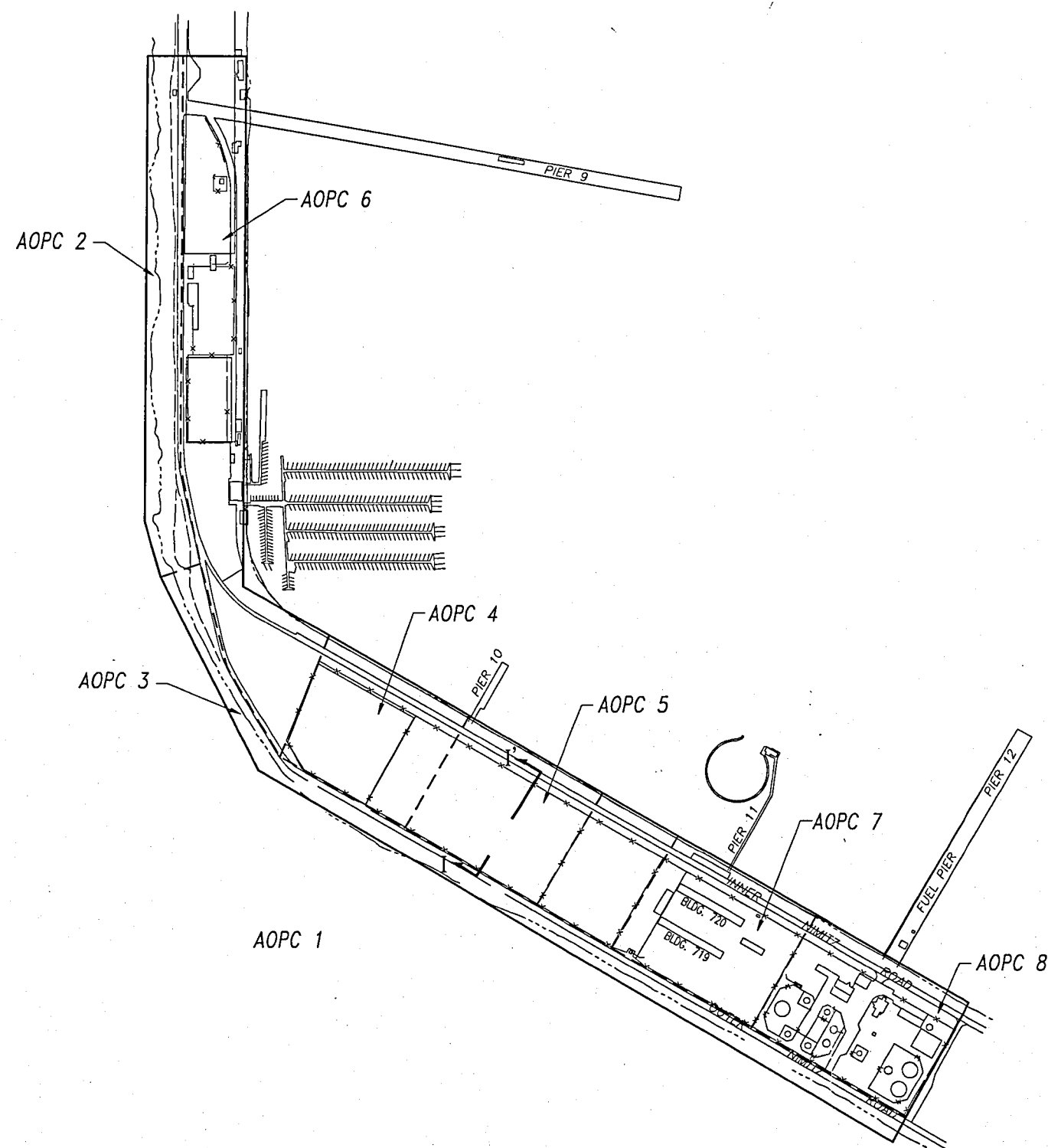
1.3.2 IR Site 4 Description. IR Site 4 comprises the western and southwestern portions of the mole and covers an area of approximately 70 acres. IR Site 4 is bordered by San Pedro Bay to the west and southwest and by the West Basin of Long Beach Harbor to the east and northeast. Numerous buildings are located along the northern and southeastern ends of the mole. Various portions of the site are fenced, and different Department of the Navy (DON) authorities provide security. Approximately 60 percent of the site is unpaved (BNI, 1996). Figure 1-4 is a location map that shows AOPC delineations for IR Site 4. The following are AOPC delineations within IR Site 4:

- AOPC 1—harbor sediments (addressed in IR Site 7)
- AOPC 2—surface soil on either side of the jogging path
- AOPC 3—subsurface soil and groundwater within the fill material on the outer edge of the mole
- AOPC 4—subsurface soil and groundwater in the area just west of Pier 10
- AOPC 5—subsurface soil and groundwater in the area just east of Pier 10
- AOPC 6—subsurface soil and groundwater in No Reported Disposal Area 1
- AOPC 7—subsurface soil and groundwater in No Reported Disposal Area 2
- AOPC 8—subsurface soil and groundwater in the No Reported Disposal Area identified as Mole Fuel Tank Farm.

1.3.3 IR Site 5 Description. IR Site 5 is located west of the former NAVSTA Main Gate along Navy Way. IR Site 5 covers an area of about 1 acre and comprises the land between Navy Way and San Pedro Bay, extending about 500 ft west of the Station Main Gate. Building 675 is less than 50 ft to the east, and Building 685 is approximately 100 ft to the north. IR Site 5 is a relatively flat area covered with grass, concrete, sidewalks, and asphalt pavement. The shoreline consists of riprap and debris fill. Figure 1-5 is a location map that shows the AOPC delineations for IR Site 5. The following are AOPC delineations within IR Site 5:

- AOPC 1—surface soils in grassy area
- AOPC 2—subsurface soil and groundwater across the site.





NOTES:

- FIGURE MODIFIED FROM MAP IN THE RI REPORT (BNI, 1996).



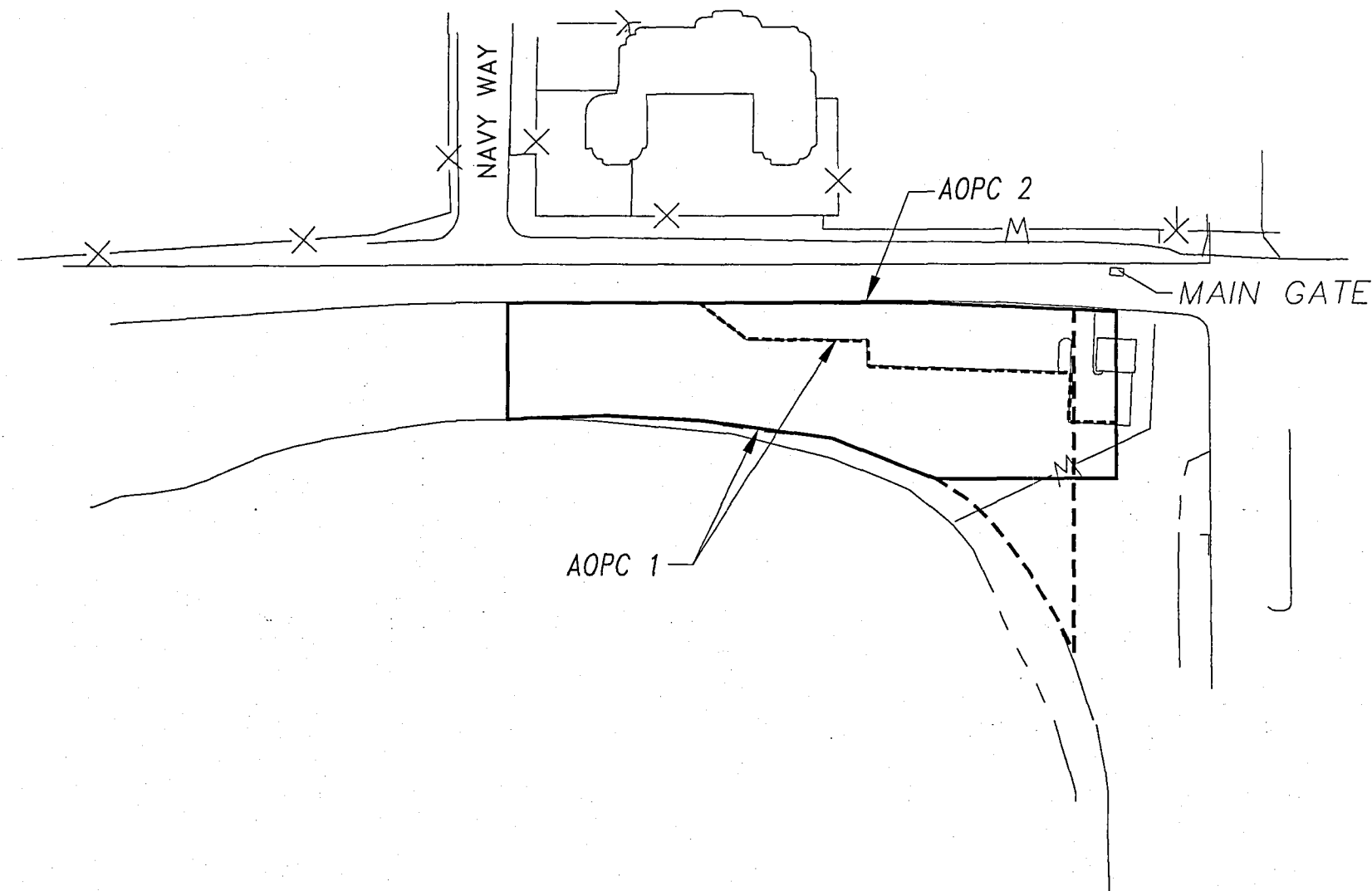
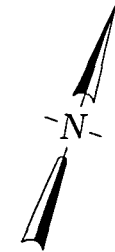
PREPARED BY	K. FIELDS
CHECKED BY	P. JAGUCKI
CONTRACT NUMBER	N474408-15-D-0730
DATE	SEPT 1998
FILE	LBFS401.DWG



NAVAL STATION LONG BEACH
LONG BEACH, CALIFORNIA

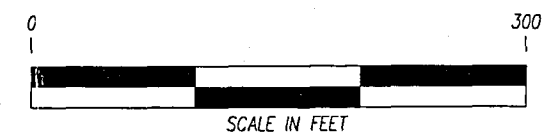
FIGURE 1-4
IR SITE 4
SITE MAP AND AOPC
DELINEATIONS

SITE 5




NOTES:

- FIGURE MODIFIED FROM MAP IN THE RI REPORT (BNI, 1996).



AOPC 1 - SURFACE SOILS IN GRASSY AREA

AOPC 2 - SUBSURFACE SOILS & GROUNDWATER ACROSS THE SITE

PREPARED BY K. FIELDS	 Battelle ... Putting Technology To Work NAVAL STATION LONG BEACH LONG BEACH, CALIFORNIA
CHECKED BY P. JAGUCK	
CONTRACT NUMBER N474408-95-D-0730	
DATE SEPT 1998	
FILE LBFS501.DWG	
FIGURE 1-5 IR SITE 5 SITE MAP AND AOPC DELINEATIONS	

1.3.4 IR Site 6A Description. IR Site 6A, the former Boat Disposal Location, is to the north of Ocean Boulevard and is part of the NAVSTA. IR Site 6A covers approximately 20 acres and consists of two main areas. The westernmost portion of IR Site 6A consists of a scrap yard used by the LBNC. The second area, a vacant lot, extends east from the scrap yard to the western portion of Seabees Building 95. There is a chain-link fence enclosing the perimeter of the two adjoining areas of IR Site 6A. Figure 1-6 is a location map that shows AOPC delineations for IR Site 6A. The following are AOPC delineations within IR Site 6A:

- AOPC 1—surface soils within IR Site 6A
- AOPC 2—subsurface soils and groundwater in IR Site 6A, except the western 300 ft of the site
- AOPC 3—subsurface soils and groundwater in the western 300 ft of IR Site 6A.

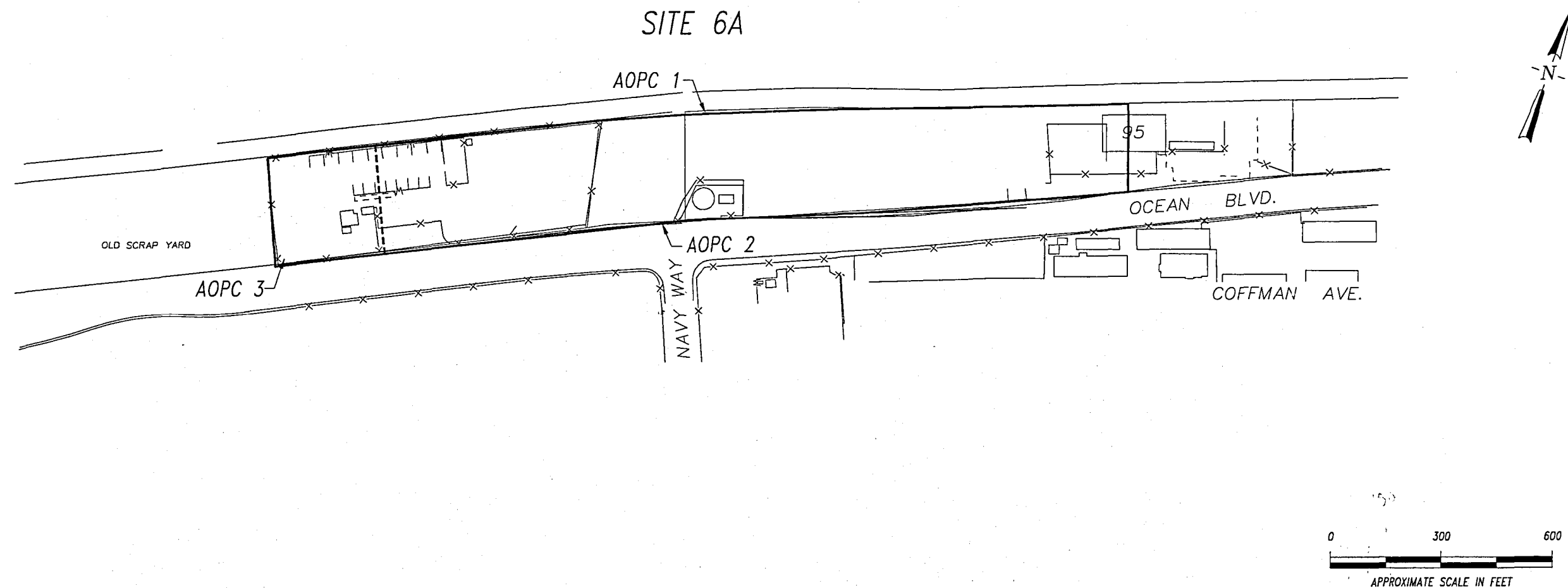
1.4 IR Sites 3, 4, 5, and 6A Geology and Hydrogeology. Soils below IR Sites 3, 4, 5 and 6A on the mole consist of hydraulically and mechanically placed fill materials and Recent deposits. The fill material consists of lenses and pockets of loose to medium-dense, predominantly fine-grained sand and silty sand, soft to firm sandy silt, and silt with local lenses of shells throughout. This layer extends to approximately 40 to 50 ft bgs. In general, the soil types are highly variable throughout the thickness of the fill at each site, and individual sediment layers lack lateral continuity (BNI, 1996).

The depth to groundwater beneath IR Sites 3, 4, 5, and 6A ranges between 7 to 12 feet bgs. Although the number of monitoring events is somewhat limited, it is believed that these depths to groundwater are typical for the sites. The variation in groundwater depth may be a result of tidal fluctuation observed at the time of measurement (see Section 1.5). The depth to groundwater defines the thickness of the vadose zone beneath the site. Groundwater monitoring data indicate that the vadose zone is approximately 10 feet thick at all four sites.

The total dissolved solids (TDS) concentrations on the mole (IR Sites 3 and 4) range from 2,770 mg/L to 35,800 mg/L (brackish to saline). In general, the TDS concentrations on the mole exceed 10,000 mg/L, except near the center of the mole at IR Sites 3 and 4, and are highest near the edges of the mole. TDS concentrations on the mainland of the LBNC (including IR Sites 5 and 6A) are generally less than 3,000 mg/L. It should be noted that TDS concentrations at IR Site 6A characterize only the upper few feet of the shallow-water bearing zone. Indirect evidence, such as resistivity data, suggests that TDS levels may increase at depths greater than 25 ft bgs (BNI, 1996).


Initial bore water in the mole was either placed along with the marine sediments during construction or infiltrated from the harbor immediately after bringing the mole surface elevation up to sea level during construction. Therefore, the original TDS of groundwater beneath the mole was that of seawater. The lower TDS concentrations are probably the result of (1) infiltration and percolation of rainwater in the noncovered areas, such as ball parks or green areas, and (2) the irrigation of noncovered areas.

State Water Resources Control Board Resolution 88-63 ("Sources of Drinking Water" Policy) designate all waters of the state to be suitable or potentially suitable as sources of drinking water with excluding those waters that exceed 3,000 mg/L TDS. The groundwater in at IR Sites 3, 4, 5, and 6A generally exceeds 3,000 mg/L TDS. The Navy proposes, therefore, that since the groundwater meets one of the exceptions in Resolution 88-63, it is unnecessary to remediate the groundwater to protect the beneficial use of municipal or domestic water supply. The RWQCB has adopted an amendment to its water quality control plan specifying that the groundwater does not support the beneficial use of



NOTES:

1. FIGURE MODIFIED FROM MAP IN THE SFA REPORT (BNI, 1997a)

PREPARED BY K. FIELD'S	 Battelle ... Putting Technology To Work NAVAL STATION LONG BEACH LONG BEACH, CALIFORNIA FIGURE 1-6 IR SITE 6A SITE MAP AND AOPC DELINEATIONS
CHECKED BY P. JAGUCKI	
CONTRACT NUMBER N474408-95-D-0730	
DATE SEPT 1998	
FILE LBFS6A0.DWG.	

municipal or domestic supply. Therefore, the state concurs with the Navy's proposal and Resolution 88-63 is not an ARAR.

The potential exists for groundwater to migrate to surface waters containing concentrations of constituents that may exceed the water quality objectives of the California State Water Resources Control Board (SWRCB) Ocean Plan (1995). The selected remedy includes monitoring to evaluate such migration.

1.5 Tidal Influences at IR Sites 3, 4, 5, and 6A. Plots of harbor and groundwater elevations versus time (hydrographs) showed that groundwater elevations beneath the mole were influenced by harbor tides (BNI, 1996, Appendix E1). The tidal response for wells located in the central part of the mole is generally less than that for wells located near the edge of the mole. Differences in tidal response are generally attributed to distance from shoreline.

Horizontal and vertical flows resulting from tidal influences are significant only in the shoreline riprap and the mixing zone in groundwater immediately adjacent to the riprap. The tidal response in most of the mole, beyond a narrow mixing zone along the riprap, is a response to the pressure wave created by the tide and does not indicate flow is occurring. However, wells with mean groundwater elevations higher than those calculated for the harbor indicate groundwater is flowing from the mole to the harbor on a long-term net basis. Wells with lower mean elevations indicate net flow from the harbor into the mole.

Groundwater elevations in two shallow monitoring wells (MW-6A-01, and -06) at IR Site 6A were continuously measured for approximately 7 days during the tidal survey. The hydrographs (plots of groundwater elevation over time) for these wells suggest that the groundwater elevations in the shallow groundwater throughout IR Site 6A are not influenced by harbor tides.

Section 2: SITE HISTORY AND ENFORCEMENT ACTIVITIES

2.1 IR Site 3: Mole Industrial Waste Disposal Pits. From the late 1940s to the early 1970s, industrial wastes and trash were disposed of at IR Site 3. Reportedly, a pit was dug, filled with sludge, oil, trash, and other wastes, and then covered with the excavated soil. A new pit would then be dug in the same general area (U.S. DON, 1969).

The practice of using waste disposal pits at IR Site 3 was first documented in the 1969 Industrial Waste Study (IWS) at LBNC (U.S. DON, 1969). The IWS documented former disposal operations at the site, including disposal of primarily oily liquid wastes from ships' bilges or tanks, and industrial process wastes. The wastes disposed of in the pits also included acidic and caustic waste and "nonpetroleum impacted hydraulic fluid." Based on this document, IR Site 3 was identified as one of the 12 potentially contaminated sites during the Initial Assessment Study (IAS) in 1983 (U.S. DON, 1983). The IAS report identified the site as the Industrial Waste Disposal Pits. The IAS estimated the waste volume as approximately 80,000 gallons annually disposed over 30 years. The boundaries of IR Site 3 were first defined by the IAS; the western boundary was adjacent to the Mole Fuel Tank Farm, and the eastern boundary was defined as the roadway that formerly ran diagonally across the mole, approximately 800 feet west of Pier 15 (see Figure 1-3). This site was also included in the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) conducted by the California Department of Health Services (DHS) in 1989, which recommended that further action be taken to investigate potential releases and exposure pathways (DHS, 1989). This recommendation resulted in a Site Investigation (SI) being conducted in 1991 on this and other IR sites (JEG, 1992).

The SI included collecting subsurface soil and groundwater samples to verify the presence of hazardous chemicals, evaluating potential migration pathways and targets, and assessing whether further action was warranted. The SI fieldwork was performed in the fall of 1991. On June 29, 1992, stained soil was reportedly observed during an excavation just east of IR Site 3 (JEG, 1992). Two samples (one soil and one groundwater) taken from the excavation reportedly indicated the presence of total petroleum hydrocarbons (TPH) (Method 8015 M) (JEG, 1993). The soil sample contained 4,890 mg/kg TPH quantified as diesel (TPHD), and the water sample contained 317 mg/L TPHD (JEG, 1992). Because TPH was detected, the eastern boundary of IR Site 3 was expanded during the SI stage of work to include the area just east of the diagonal roadway (JEG, 1992).

The SI recommended further action for this site, which resulted in the RI/FS being performed beginning in February 1994.

Based on the results and conclusions for IR Site 3 presented in the RI report, a Removal Action was performed to remediate arsenic-contaminated surface soils at AOPC 4 (see Figure 1-3 and also Section 6). The contamination sources for the staining at IR Site 3, AOPC 4 were unknown. However, it is expected that a spill or disposal of liquid or solid material containing lubrication oils and petroleum products created the stained area. The Removal Action at IR Site 3 met all Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) requirements and has been fully incorporated into the remedial actions selected in this Record of Decision (ROD).

Supplemental field activities (SFAs) were performed following the RI and clarified the recommendations from the RI. SFAs were part of the RI continuum. The SFAs included collection and analysis of additional soil and groundwater samples from IR Sites 3, 4, and 6A.

2.2 IR Site 4: Mole Extension Operations. This site is located on the mole and was identified as an area of fill used to extend the width of the mole. Additionally, this area was used for the storage and

transfer of diesel and motor fuel, the storage of miscellaneous equipment and materials, and the long-term storage of deployed personnel vehicles.

The practice of hauling and dumping material into the ocean to extend the mole was first documented in the 1969 IWS. This report identifies the types of material disposed of and the area that was being used for disposal at that time. Based on the IWS and other information, IR Site 4 was identified as one of the 12 potentially contaminated sites during the IAS in 1983 (U.S. DON, 1983). IR Site 4 was then included in the RFA conducted by the California DHS in 1989, which recommended that further action be taken to investigate potential releases and exposure pathways (DHS, 1989). This resulted in an SI being conducted in 1991. The SI included collecting subsurface soil and groundwater samples from two soil boring/HydroPunch™ locations. The SI report recommended further action for the site, which resulted in the development of an RI/Feasibility Study (FS) Work Plan RI.

SFA were performed following the RI Report and clarified the recommendations from the RI.

2.3 IR Site 5: Skeet Range Solid Waste Fill Area. Prior to 1935, the IR Site 5 area was undeveloped. IR Site 5 is positioned on the far southeastern portion of what was Reeves Field. In a 1944 aerial photo, two buildings appear approximately on the northern edge of the site. This portion of the site may have been part of the old skeet range; however, there is no historical information confirming the use of IR Site 5 for this activity. From the late 1930s to 1968, this area was used for the disposal of solid waste, including bedframes, desks, fire brick, and construction debris from different sources from the LBNC; there are no indications that this area was used as a skeet range during that period. Reportedly, no industrial wastes were disposed of at this location (U.S. DON, 1983). By 1982, the two buildings had disappeared from aerial photos, and the present-day pass office had been built.

IR Site 5 was identified as one of the 12 potentially contaminated sites during the IAS in 1983. The IAS identified this site as the Skeet Range Solid Waste Fill Area, and IR Site 5 was included in the study due to disposal activities. The IAS stated that no disposal of industrial wastes had been reported on IR Site 5 (U.S. DON, 1983). This site was also included in the RFA conducted by the California DHS in 1989, which recommended that further action be taken to investigate potential releases and exposure pathways. This resulted in a SI being conducted in 1991. The SI included the collection of subsurface soil and groundwater samples to verify the presence of hazardous chemicals, the evaluation of potential migration pathways and receptors, and an assessment of whether further action was warranted. The SI recommended further action for this site, which resulted in the RI. There is no information available in previous documents to clearly determine whether the site was actually used as a skeet range. "Skeet Range" is simply what the site is known as among personnel familiar with the Naval Station and the shipyard.

2.4 IR Site 6A: Boat Disposal Location. Potential contaminant sources for AOPCs 1, 2, and 3 (surface and subsurface soils) consist of former disposal operations, which included landfilling of solid wastes by cut-and-fill methods in the majority of AOPC 2, and scrap yard areas on the western 300 feet of the site (AOPC 3). Landfilling reportedly began in the mid-1940s (U.S. DON, 1983) and was shown to continue in aerial photographs taken in 1962. The IAS indicates that landfilling continued through the mid-1960s. The IAS reported that old boats (primarily camel floats), sandblast waste, and shipyard solid wastes were disposed of at this site. Initially, disposal was reportedly in the area of the Building 95 (commissary) parking lot, and waste burial operation proceeded westward toward the "old" scrap yard (U.S. DON, 1983). There are no reports of liquid or chemical wastes disposed of within the cut-and-fill operations (U.S. DON, 1983). Waste oils used for compaction and dust suppression reportedly may have been sprayed during on-site operations (U.S. DON, 1983). These liquids may account for the unnamed semivolatile organic compounds (SVOCs) detected within AOPCs 1, 2, and 3. SVOCs are typical components of crude and refined oil. There are no additional data available regarding the aboveground

storage tanks. By 1970, the western area (in aerial photographs) appeared to contain several aboveground tanks, which could have contributed organic chemicals detected in soils within AOPC 3. Additionally, chemicals inherent to the scrap yard operations may have contributed to the occurrence of chemicals of potential concern (COPCs) detected in AOPC 3 groundwater.

IR Site 6A was identified as one of the 12 potentially contaminated sites during the IAS in 1983. The IAS was prepared for the Navy and for the Assessment and Control of Installation Pollutants Department. Findings of this study pointed out that differential settlement of the surface of the fill at the site caused buckling and cracking of the pavement around Building 95 (old commissary), thus inhibiting vehicular traffic. However, recommendations for further study of the site were not made (U.S. DON, 1983).

In 1989, IR Site 6A was further investigated during the RFA conducted by California DHS. The RFA concluded that further investigation to identify potential releases to the environment and exposure pathways was warranted for IR Site 6A (DHS, 1989). A Remedial Site Evaluation was conducted at IR Site 6A. The RI was complete and the results of the Remedial Site Evaluation were incorporated into the RI Report.

SFA were performed following the RI Report and clarified the recommendations from the RI.

2.5 Administrative Record. A list of all documents used to select and justify remedial alternatives and selected action of LBNC is provided in Appendix D. These documents comprise the administrative record and are available for public review at:

Long Beach Public Library
Government Publications Department
101 Pacific Avenue
Long Beach, CA 90822
(562) 570-7500
Hours: Mon (10-8), Tue-Sat (10-5:30), Sun (12-5)

and:

Southwest Division
Naval Facilities Engineering Command
1220 Pacific Highway, Building 129
San Diego, CA 92132
(619) 532-1144

Section 3: HIGHLIGHTS OF COMMUNITY PARTICIPATION

The Long Beach community is kept well informed about the progress of environmental programs at the LBNC. The FS and the Proposed Plan for IR Sites 3, 4, 5, and 6A at LBNSY were released to the public on May 8, 1998. The documents were made available to the public through the Administrative Record (Appendix D) contained in the information repositories at the Long Beach Public Library. The public comment period extended from May 8, 1998 through July 8, 1998. A public meeting was held on May 27, 1998. Detailed information on community involvement is included in Section 13, The Responsiveness Summary, and Appendices C, D, and E.

The local, citizen-based Restoration Advisory Board (RAB) is another key element for public involvement at the LBNC. The RAB is an advisory body designed to act as a focal point for the exchange of information between the Navy and the local community regarding environmental activities at the LBNC. As part of the CERCLA process for IR Sites 3, 4, 5, and 6A, the RAB meeting provided an opportunity for stakeholders to provide input in the remedial actions selected for these sites.

Section 4: SCOPE AND ROLE OF RESPONSE ACTION WITHIN SITE STRATEGY

4.1 Remediation Goals. Remediation goals were established to allow identification and screening of alternatives that achieve protection of human health and the environment consistent with reasonably anticipated land use. The determination of remediation goals includes consideration of site-specific risks and applicable or relevant and appropriate requirements (ARARs) (see Section 11 and Appendix B) in accordance with CERCLA, as amended by the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) and the Superfund Amendments and Reauthorization Act (SARA). Remediation goals were developed based on industrial land use. Based on the City of Long Beach Local Redevelopment Authority (LRA), industrial use is the most reasonable anticipated scenario. Based on CERCLA, the NCP, the risk assessment in the RI, and ARARs, the remediation goals for IR Sites 3, 4, 5, and 6A are as follows:

Groundwater

- Monitor groundwater that may migrate towards marine ecosystems by evaluating groundwater chemical concentrations with respect to California Ocean Plan criteria (SWRCB, 1995).
- Maintain industrial and utility maintenance worker exposure scenarios defined in the RI Report, thereby preventing human exposure to groundwater containing carcinogens that result in an excess lifetime cancer risk (ELCR) greater than 1.0×10^{-4} .
- Maintain industrial and utility maintenance worker exposure scenarios defined in the RI Report, thereby preventing human exposure to groundwater containing chemical concentrations that result in a chronic toxicity hazard index greater than 1.

Surface and Subsurface Soil

- Maintain industrial and utility maintenance worker exposure scenarios defined in the RI Report, thereby preventing human exposure to soil containing carcinogens that result in an ELCR greater than 1.0×10^{-4} .
- Maintain industrial and utility maintenance worker exposure scenarios defined in the RI Report, thereby preventing human exposure to groundwater containing chemical concentrations that result in a chronic toxicity hazard index greater than 1.

Noncancer health effects are evaluated in terms of a hazard index, which is a comparison of the rates of the actual or potential levels of exposure to an acceptable level. The United States Environmental Protection Agency (U.S. EPA) uses a hazard index value of less than 1 to represent acceptable noncancer health effects. Noncancer hazards significantly above 1 indicate a potential for adverse effects.

In order to satisfy the remediation goals, institutional controls are recommended at IR Sites 3, 4, 5, and 6A. The institutional controls may include provisions to prevent disturbance of monitoring systems, if applicable, and restrictions on land use for residential purposes and types of development allowed. Also, continuation of the current groundwater monitoring program for one more year is recommended for Sites 3 and 6A. Groundwater monitoring is needed to ensure that groundwater contaminants at concentrations in excess of California Ocean Plan criteria (SWRCB, 1995) do not migrate to marine ecosystems. If the monitoring indicates that groundwater concentrations exceed water quality standards in the State Water Resources Control Board's Ocean Plan or the Regional Water Quality Control Board's

Water Quality Control Plan, DON will provide a primary document to the state proposing action to prevent the migration of waste to surface waters.

4.2 Land Use Covenant. A land use covenant between the United States and the City of Long Beach or City of Los Angeles (whichever is appropriate) will be included in the deed conveying the property pursuant to the Defense Base Closure and Realignment Act of 1990, 10 U.S.C. § 2687 note, and will serve as the mechanism to implement the above-mentioned institutional controls in accordance with DON policy. The covenant will be executed by the transferee and will serve as a legal binding agreement between the transferee, its successor and assigns (the covenantor) and the United States, the State of California Department of Toxic Substances Control (DTSC), and the Los Angeles Regional Water Quality Control Board (the covenantees). The covenant will grant the covenantees, their contractors and representatives access to the property in order to ensure continued effectiveness of the response action and to evaluate groundwater wells via site inspection. The deed will include a legal description of the property and/or contaminated areas. In addition, the deed will include information summarizing the remedial actions completed at the specific sites, and provisions for terminating or modifying the land use covenant in the event it is no longer necessary to protect human health and the environment. The land use covenant will be binding upon all future owners until legally terminated; that is, it will run with the land. The deed will be recorded in the Office of the County Recorder of the County of Los Angeles. The DON will provide DTSC with a copy of the proposed deed for DTSC's review and comment in connection with DTSC's review of the finding of suitability to transfer (FOST) and finding of suitability for early transfer (FOSET) documents. A copy of the recorded deed will be provided to DTSC following its recordation.

Section 5: SUMMARY OF SITE CHARACTERISTICS

A summary of site characteristics is most completely addressed by examining the findings from the RI, SFAs, and long-term groundwater monitoring. Results of all previous environmental activities at IR Sites 3-6A were compiled in the RI Report, along with the results from the remedial investigation (BNI, 1996). SFAs were performed following the RI and clarified the recommendations from the RI. Long-term groundwater monitoring was initiated following the SFA.

The following sections summarize the results of the RI, the SFAs, and long-term groundwater monitoring at IR Sites 3, 4, 5, and 6A. Maps showing sampling locations at each IR site are provided as Figures 5-1, 5-2, 5-3, and 5-4, respectively.

5.1 IR Site 3: Mole Industrial Waste Disposal Pits. Potential contaminant sources for AOPCs 1 and 2 consist of former disposal operations at the site, including disposal of primarily oily liquid wastes from ships' bilges or tanks, and industrial process tank bottom sludge. The wastes also included acidic and caustic waste and "non-petroleum impacted hydraulic fluid" (U.S. DON, 1969). The Initial Assessment Study (IAS) estimated the waste volume as approximately 80,000 gallons annually disposed over 30 years (U.S. DON, 1983). From the late 1940s to the early 1970s, industrial wastes and trash were reportedly disposed of in waste pits at IR Site 3.

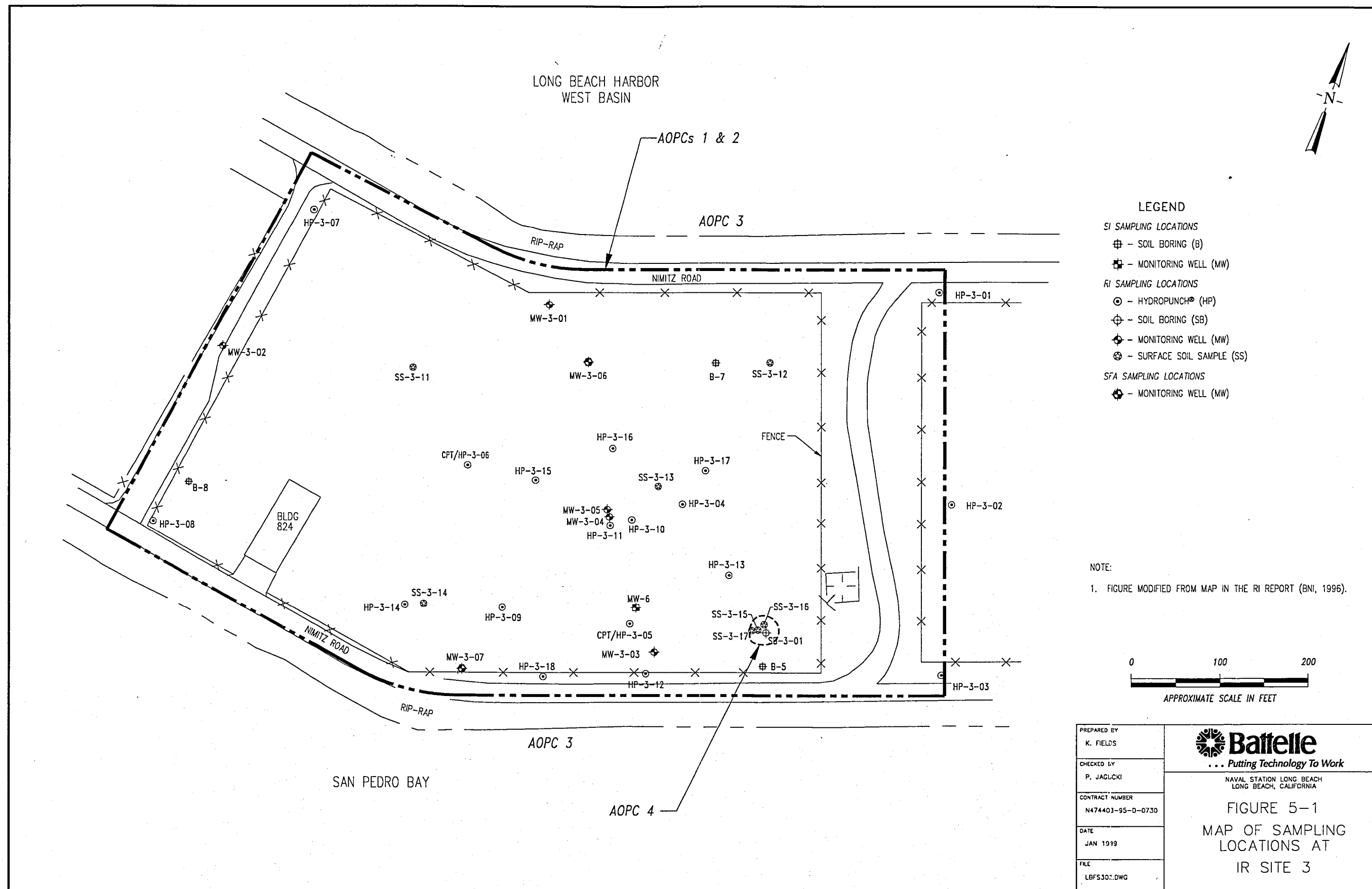
The following sections summarize results of the RI, removal actions, SFAs, and long-term groundwater monitoring at IR Site 3.

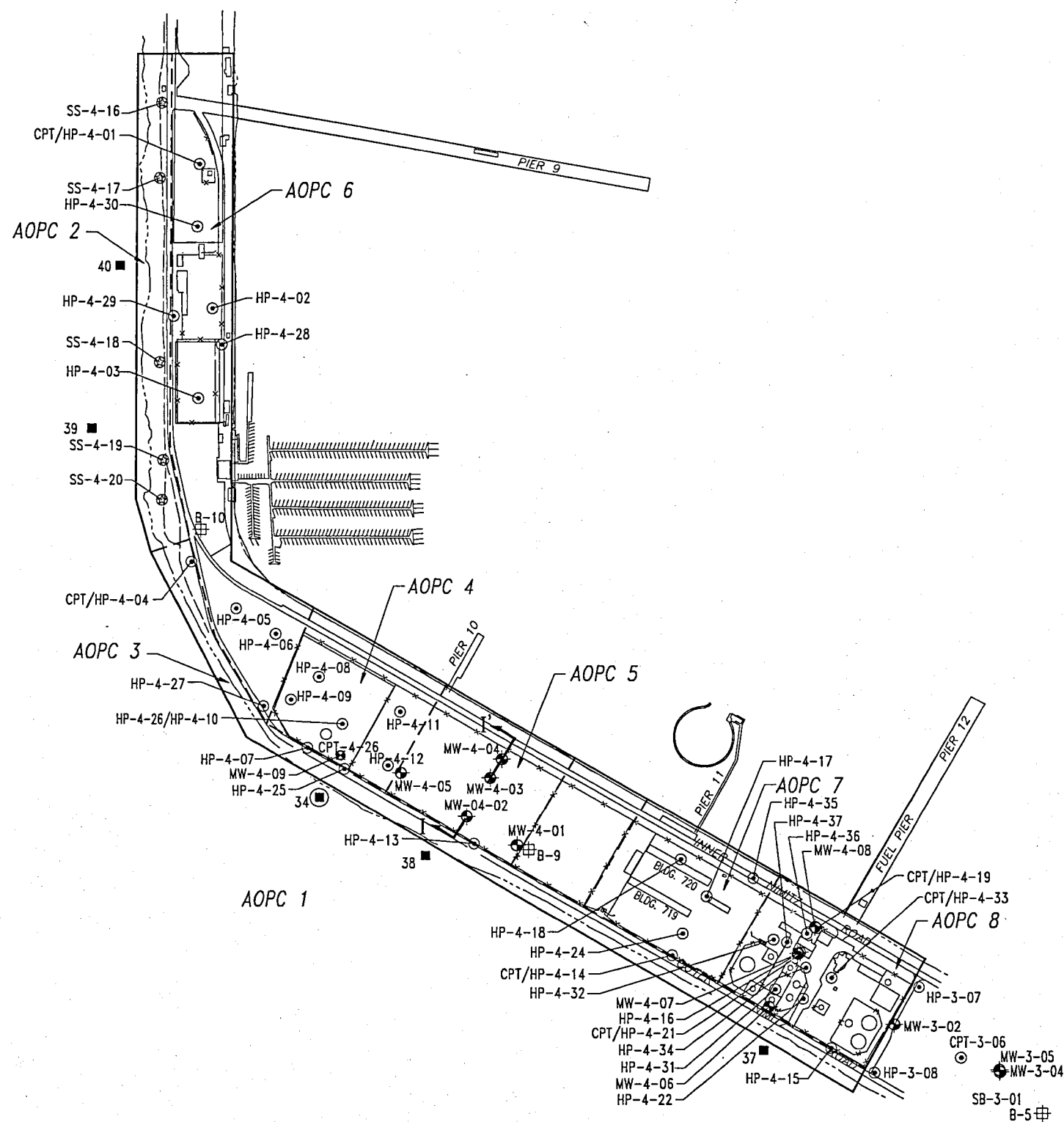
5.1.1 Remedial Investigation (RI). The results of the RI were presented in the Final RI Report (BNI, 1996). The following subsections summarize the results of the soil and groundwater sampling conducted at IR Site 3, as well as the results from the transport modeling presented in the RI report.

5.1.1.1 Results of the RI Soils Investigation. Individual contaminant concentrations for organic and inorganic compounds are presented in the RI report. Contaminant concentrations in soils exceeding non-detect values were screened against statistical backgrounds for metals and industrial preliminary remediation goals (PRGs) for all nonmetals. Statistical background concentrations for metals were calculated using 95% upper tolerance limits (UTLs) of measured background concentrations. These screening criteria generated COPCs that were analyzed in a Human Health Risk Assessment (HHRA). There were no organic COPCs detected in the surface or subsurface soil samples above screening criteria at IR Site 3. The only COPCs detected above screen were the elements arsenic, cobalt, and lead at AOPC 4. Table 5-1 has been taken from the RI Report and presents all the COPCs detected in soils above the screening criteria at IR Site 3 (BNI, 1996).

5.1.1.2 Results of the RI Groundwater Investigation. Most of the elements listed on the Target Analyte List (TAL) were detected at concentrations within background concentrations. However, sample MW3-01 contained concentrations of antimony at 87.8 µg/L, 1.35 times the statistically calculated background of 64.9 µg/L (BNI, 1996). All other inorganics were detected below statistically calculated background in this sampling location. As discussed in the RI, this antimony concentration most likely represents background conditions because groundwater impacted by a release would generally have concentrations of antimony many times greater than background and would typically be accompanied by other affiliated chemicals (BNI, 1996).

A dissolved-solvent plume was delineated below IR Site 3. The plume consists of compounds detected above industrial PRGs (U.S. EPA, 1994) and drinking water maximum contaminant levels (MCLs) (U.S. EPA, 1995). The organic chemicals detected above these screening criteria included multiple chlorinated and nonchlorinated solvents. Of the chemicals within the solvent plume, the





LEGEND

SI SAMPLING LOCATIONS

- ⊕ - SOIL BORING (B)
- ⊕ - MONITORING WELL (MW)

RI SAMPLING LOCATIONS

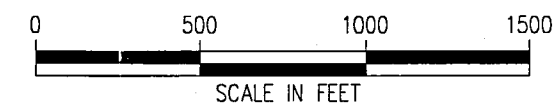
- - CONE PENETROMETER TEST (CPT)
- ⊙ - HYDROPUNCH (HP)
- ⊕ - SOIL BORING (SB or B)
- ⊕ - MONITORING WELL (MW)
- ⊕ - SURFACE SOIL SAMPLE
- 38 ■ - SURFACE SEDIMENT SAMPLE
- 34 ⊕ - SURFACE & SUBSURFACE SEDIMENT SAMPLING LOCATION (DEPTH=5m)

SFA SAMPLING LOCATIONS

- ⊕ - MONITORING WELL (MW)

NOTES:

1. FIGURE MODIFIED FROM MAP IN THE RI REPORT (BNI, 1996).



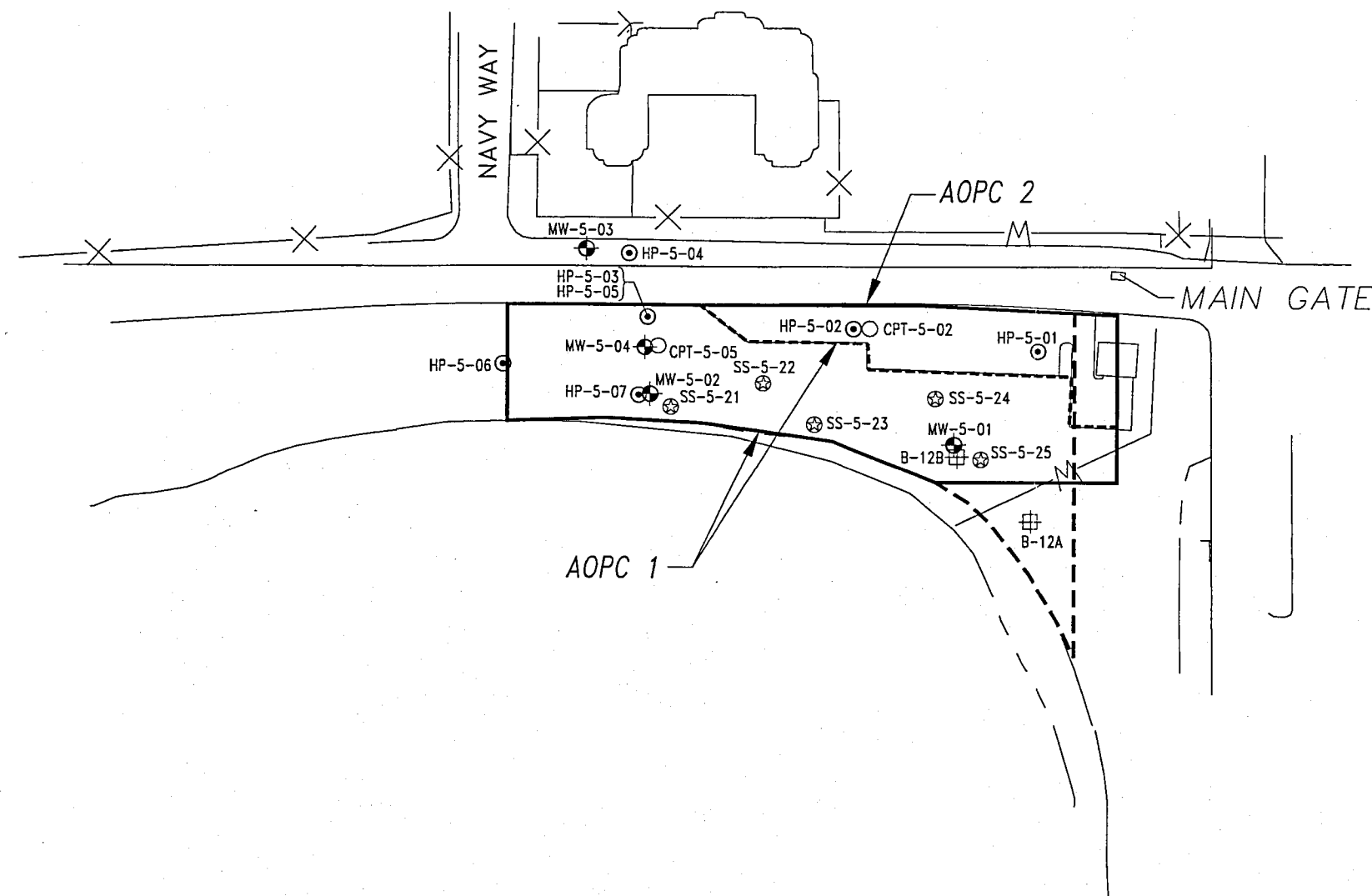
PREPARED BY	K. FIELDS
CHECKED BY	P. JAGUCKI
CONTRACT NUMBER	N474408-95-D-0730
DATE	JAN 1999
FILE	LBFS402.DWG

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NAVAL STATION LONG BEACH
LONG BEACH, CALIFORNIA

FIGURE 5-2
MAP OF SAMPLING
LOCATIONS AT
IR SITE 4

SITE 5



LEGEND

SI SAMPLING LOCATIONS

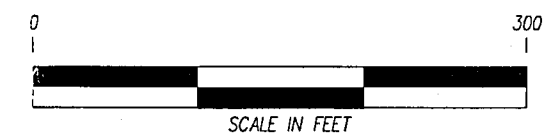
- ⊕ - SOIL BORING (SB or B)
- ⊕ - MONITORING WELL (MW)

RI SAMPLING LOCATIONS

- - CONE PENETROMETER TEST (CPT)
- ⊙ - HYDROPUNCH (HP)
- ⊕ - SOIL BORING (SB or B)
- ⊕ - MONITORING WELL (MW)
- ⊗ - SURFACE SOIL SAMPLE


NOTES:

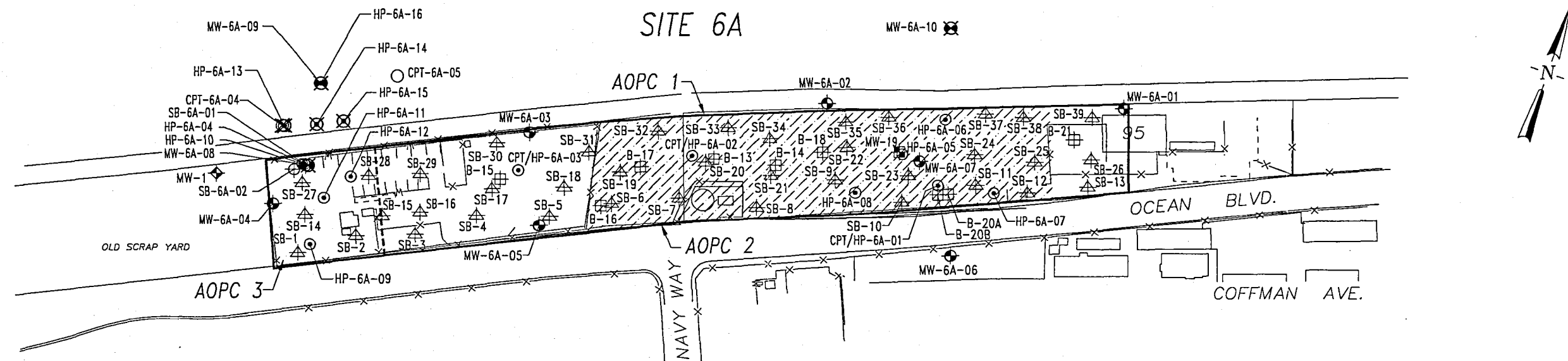
1. FIGURE MODIFIED FROM MAP IN THE RI REPORT (BNI, 1996).



AOPC 1 - SURFACE SOILS IN GRASSY AREA

AOPC 2 - SUBSURFACE SOILS & GROUNDWATER ACROSS THE SITE

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CHECKED BY P. JACUCKI	
CONTRACT NUMBER N474408-95-D-0730	
DATE JAN 1996	
FILE LBFS502.IWG	
FIGURE 5-3 MAP OF SAMPLING LOCATIONS AT IR SITE 5	



LEGEND

SI SAMPLING LOCATIONS (JEG)

⊕ - SOIL BORING (SB or B)

⊕ - MONITORING WELL (MW)

SI SAMPLING LOCATION (BNI)

⊕ - MONITORING WELL (MW)

RSE SAMPLING LOCATIONS

⊕ - SOIL BORING (SB or B)

RI SAMPLING LOCATIONS

○ - CONE PENETRATION TEST (CPT)

⊕ - HYDROPUNCH (HP)

⊕ - SOIL BORING (SB or B)

⊕ - MONITORING WELL (MW)

SFA AND LONG-TERM GROUNDWATER MONITORING SAMPLING LOCATIONS

⊕ - MONITORING WELL (MW)

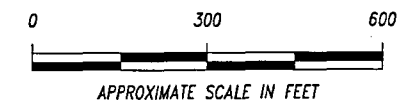
⊕ - HYDROPUNCH (HP)

⊕ - CONE PENETRATION TEST (CPT)

⊕ AREA OF GEOPHYSICAL EXPLORATION

NOTES:

- FIGURE MODIFIED FROM MAP IN THE SFA REPORT (BNI, 1997a)



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CONTRACT NUMBER N474403-95-D-0730
DATE JAN 1999
FILE LBFS6AC2.DWG

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FIGURE 5-4
MAP OF SAMPLING
LOCATIONS AT
IR SITE 6A

Table 5-1. COPCs Detected at Concentrations Exceeding the Statistical Background Concentration and/or the Industrial PRG in Surface and Subsurface Soils at IR Site 3

AOPCs	COPCs in Soil (Surface or Subsurface)	Range of Concentrations ^(a) in Soil (mg/kg)	Ratio of Detected Concentration to Screen ^(b)	Screening Criteria ^(c)
1	Arsenic	9.46 to 11.6	1.27 to 1.57	Background
	Cobalt	13.9 to 22.1	1.13 to 1.80	Background
2	Arsenic	8.7	1.17	Background
	Cobalt	17.5	1.42	Background
4	Arsenic	734 to 1048	99 to 141	Background
	Lead	2,220	1.85	PRG
	Cobalt	24.2	1.98	Background

- (a) Only concentrations above screening criteria included. Only one value is listed for those COPCs detected at only one location.
- (b) Ratio of the measured COPC concentration to the applicable screening concentration (e.g., PRG, background, etc.).
- (c) Screening criteria include (1) PRG, which refers to U.S. EPA *Region IX PRGs, Second Half 1994* (U.S. EPA, 1994) for industrial soil; and (2) background, which refers to statistically calculated background metal concentration values contained in Appendix H of the RI Report (BNI, 1996).

occurrences of the COPCs benzene, chlorobenzene, chloroform, perchloroethene (PCE), trichloroethene (TCE), 1,4-dichlorobenzene (1,4-DCB), 1,2-dichloroethane (1,2-DCA), 1,2-dichloropropane (1,2-DCP), and 1,2-dichloroethene (1,2-DCE) are attributed to the materials disposed in the waste pits identified as potential sources at IR Site 3. These chemicals are used as (or in) solvents and fuels for industrial processes consistent with those that have historically occurred on the LBNC. In addition, some of these chemicals have the potential to be products of the chemical degradation of chlorinated aliphatic compounds (BNI, 1996). Table 5-2 summarizes the compounds detected in groundwater with concentrations exceeding the screening criteria.

5.1.1.3 RI Fate and Transport Modeling. Contaminant transport modeling was performed with the computer program ODAST (Javandel et al., 1984). ODAST is an analytical program that calculates a one-dimensional solute transport solution by considering advection, dispersion, decay, and adsorption in porous media (Javandel et al., 1984). The ODAST model calculates concentrations of aqueous-phase COPCs emitted from a point source within porous media at user-specified input parameters. Because of the waste disposal practices used at IR Site 3, multiple sources could be present. The ODAST modeling was performed assuming two scenarios. The first scenario assumes that COPC concentrations detected at HP-3-10 (located near the center of the plume about 200 ft to the mole edge) are representative of the source concentrations. The second scenario assumes that COPC concentrations detected at MW-6 (located in the southern one-third of the delineated plume about 100 ft to the mole edge) are representative of the source concentrations. Figure 1-3 shows the location of HP-3-10 and MW-6.

Under the first scenario, COPCs detected at HP-3-10, which included PCE, TCE, vinyl chloride (VC), and benzene, were modeled using ODAST. The second scenario consisted of modeling transport of COPCs detected at MW-6, which included PCE, TCE, 1,2-DCE, VC, and benzene. The calculations performed using ODAST and mixing factors estimate that the receiving surface waters and harbor sediments will not be impacted by transport of the COPCs in the IR Site 3 groundwater plume (BNI, 1996).

Table 5-2. COPCs Detected at Concentrations Exceeding the Statistical Background Concentration and the Specified Screening Criteria in Groundwater at IR Site 3

AOPC	COPCs	Range of Concentrations (µg/L)	Screen Concentration (µg/L)	Screening Criteria ^(a)
COPCs with Concentrations Exceeding Statistical Background or PRG Values				
2	Chlorobenzene	55 to 170 (3) ^(b)	0.40	PRG
	1,2-DCE	99.1J (1)	55 ^(c)	PRG
	Benzene	0.5 to 160 (7)	0.39	PRG
	Vinyl chloride	11 to 140 (7)	0.02	PRG
	1,2-DCP	0.5 to 7.4J (6)	0.17	PRG
	TCE	2.4 to 55 (6)	1.6	PRG
	Chloroform	0.7 to 1.4 (4)	0.17	PRG
	PCE	1.3 to 25 (4)	1.1	PRG
	Chloromethane	2 to 23 (3)	1.5	PRG
	1,4-DCB	2 (1)	0.47	PRG
	1,2-DCA	0.7 to 6.6 (4)	0.12	PRG
	Antimony	87.8 (1)	64.9	Background
COPCs with Concentrations Exceeding Statistical Background or MCL Values^(d)				
2	Benzene	7.7 to 160 (6)	5	MCL
	1,2-DCA	6.6 (1)	5	MCL
	1,2-DCP	7.4J (1)	5	MCL
	PCE	12.9 to 25 (2)	5	MCL
	TCE	5.7 to 55 (4)	5	MCL
	Vinyl chloride	11 to 140 (6)	2	MCL
	Antimony	87.8 (1)	64.9	Background

(a) Screening criteria include (1) PRG, which refers to U.S. EPA *Region IX PRGs, Second Half 1994* (U.S. EPA, 1994) for nonmetal COPCs, (2) Background, which refers to statistically calculated background metal concentrations contained in Appendix H of the RI Report (BNI, 1996), and (3) MCL, which refers to the U.S. EPA MCLs for drinking water, May 1995 (U.S. EPA, 1995).

(b) (X) indicates that X number of samples contained detectable levels of the analyte.

(c) PRG for 1,2-DCE as a mixture of *cis*- and *trans*-1,2-DCE was used for comparison.

(d) Evaluation was only performed on COPCs for which an MCL has been assigned.

J Reported value is estimated; used for tentatively identified compounds (TICs), and used for target compounds when reported result is less than the Contract Required Quantitation Limit (CRQL) and greater than the Method Detection Limit (MDL).

µg/L = microgram per liter.

5.1.1.4 RI Conclusions and Recommendations. Based on the above data, BNI identified AOPC 4 as an area of concern (AOC), with arsenic being identified as a contaminant of concern (COC). Although other compounds did contribute to the risk, remediation of arsenic within the AOC was expected to reduce the overall risk imposed by the site to a level very close to the U.S. EPA-defined departure point of 1×10^{-6} . It was recommended that (1) the AOC boundary be limited to that of AOPC 4, and (2) remedial action in the form of eliminating the exposure pathways for arsenic (specifically dermal contact, incidental ingestion, and dust inhalation) be performed. Arsenic removal actions were performed at AOPC 4 and are discussed in Section 5.1.2.

The ODAST calculations were performed to estimate groundwater transport and predicted that the vinyl chloride plume detected beneath this site would not migrate to the harbor at significant concentrations (i.e., in exceedance of California Ocean Plan criteria). Therefore, no remedial action was recommended at IR Site 3. However, based on the size and proximity of this plume to the harbor, a groundwater monitoring program was recommended for selected shallow-zone wells at this site in order to support the results of the chemical transport calculations.

5.1.2 Removal Action at the Area of Concern. Based on the results and conclusions for IR Site 3 presented in the RI report, a removal action was performed to remediate arsenic-contaminated surface soils at AOPC 4 (see Figure 1-3). The contamination sources for the staining at IR Site 3, AOPC 4 were unknown. However, it is expected that a spill or disposal of liquid or solid material containing lubrication oils and petroleum products created the stained area.

The removal action goal at IR Site 3, AOPC 4 was established to reduce arsenic exposure such that the ELCR and noncancer risk to an industrial and/or maintenance/utility worker would not exceed the risk posed by a geochemical background concentration of arsenic of 12 mg/kg.

Soil excavation was carried out in two phases. Phase I of the excavation was carried out on August 20 and 21, 1996. Soil was removed down to 1 ft bgs in a 15-ft by 24-ft area centered on the previous shallow soil sample locations. A total estimated amount of 20 (in-place) yd³ of soil was removed.

The Phase I confirmation samples contained arsenic at concentrations up to the cleanup goal. Copper, mercury, and lead were detected at concentrations exceeding the total threshold limit concentrations (TTLCs). On the basis of these detections, Phase II of the soil removal was implemented. Additional soil was removed in a 5-ft-wide band centered on the west and north sides of the excavation down to 2 ft bgs. An additional 20 (in-place) yd³ of soil was removed in the Phase II excavation.

Excavated soils from Phases I and II were covered and stored in plastic-lined 10-yard bins. The soil in the bins was sampled and analyzed in conformance with the waste management plan. According to the Final Removal Action Site Closure Report (OHM, 1996) the excavated soil was a State hazardous waste, but not a Federal hazardous waste. The report does not indicate which of the six metals detected in the sampling (arsenic, barium, chromium, copper, lead, and mercury) failed the California Waste Extraction Test. Contaminated soil was transported by Laidlaw Environmental Services, Inc. to their Class I landfill in Westmoreland, California.

Approximately 50 yd³ of non-impacted soil was imported to the site and used for backfill material. The backfill soil was placed in 6- to 12-in. lifts and compacted to 90 percent of maximum dry density.

On the basis of the risk calculations in the HHRA RI, removal of soil containing arsenic concentrations exceeding 12 mg/kg has reduced the ELCR to 8.0×10^{-6} and the hazard index to less than 1.0.

5.1.3 Supplemental Field Activities (SFAs). Because various chlorinated solvents were detected in groundwater samples during the RI, more extensive sampling and the installation of two more monitoring wells (MW-3-06 and MW-3-07) at IR Site 3 were performed during the SFAs (BNI, 1997a). This section presents a summary of the SFAs at IR Site 3, conclusions determined from these activities, and recommendations for future actions at the site.

5.1.3.1 SFA Summary. The RI detected several Target Compound List (TCL) volatile organic compounds (VOCs) in the fill portion of the shallow water-bearing zone beneath IR Site 3 (depths less than approximately 51 feet bgs). The analytes detected included several chlorinated and nonchlorinated VOCs. Chlorinated VOCs detected in the groundwater of AOPC 2 included 2-chloroethyl vinyl ether, 1,2-DCB, 1,3-DCB, 1,4-DCB, 1,1-DCA, 1,2-DCA, *cis*-1,2-DCE, *trans*-1,2-DCE, 1,2-DCE (total), 1,2-DCP, chlorobenzene, chloroethane, chloroform, chloromethane, PCE, TCE, trichlorofluoromethane, and VC. Nonchlorinated VOCs detected in the groundwater of AOPC 2 included acetone; benzene, toluene, ethylbenzene, and xylenes (BTEX); and methylene chloride. Groundwater samples collected from monitoring wells MW-3-06 and MW-3-07 (see Figure 5-1), installed as part of the SFA, were nondetect for all TCL VOCs.

Based on the analytical results, a plume of commingled chlorinated and nonchlorinated VOCs is present in the fill portion of the shallow water-bearing zone beneath AOPC 2 (see Figure 1-3). Using the California Ocean Plan (SWRCB, 1995) criteria for comparison, the limits of this VOC plume were defined. The lateral extent of the plume appeared to be confined to the south-central portion of AOPC 2 and had an axis that generally extended from the central portion of the site southward through groundwater sample locations HP-3-09, MW-3-03, and MW-6. The VOC plume appeared confined to IR Site 3 (AOPC 2); however, this plume does extend southward, approaching San Pedro Bay near MW-3-03. The vertical extent is largely limited to the upper saturated portion of the fill beneath IR Site 3. A decrease in contaminant concentration with depth is apparent from the groundwater analytical results.

5.1.3.2 SFA Conclusions and Recommendations. Based on a comparison of the analytes detected in the groundwater during the RI and SFAs to the California Ocean Plan (SWRCB, 1995) criteria, only contaminants detected during the RI are present in groundwater at concentrations in excess of listed criteria. Groundwater samples collected from the monitoring wells installed as part of the SFA were nondetect for TCL VOCs (BNI, 1997a). The nondetect results for TCL VOCs in groundwater samples collected during the SFAs supported the interpretations and findings for this site made in the RI report (BNI, 1996).

A comparison of the RI results to the plan criteria indicates that benzene, PCE, TCE, and VC are present at concentrations in excess of the California Ocean Plan criteria. These contaminants are present at concentrations ranging between 2.04 (TCE) to 27.12 (benzene) times the plan criteria. The additional data collected as part of the SFA correspond well with the limits of the groundwater plume developed during the RI.

Based on the analytical data, TCL VOCs were not detected in the groundwater samples collected from the two monitoring wells (MW-3-06 and MW-3-07) installed as part of the SFA. Because the analytical data supported the findings of the RI report (BNI, 1996) for IR Site 3, the recommendations of the RI report for groundwater monitoring at this site were considered appropriate and were recommended in the SFAs.

5.1.4 Long-Term Groundwater Monitoring. As a result of the recommendations presented in the RI and SFA reports (BNI, 1996 and 1997a) a long-term groundwater monitoring program was initiated at the Long Beach NAVSTA. BNI conducted quarterly groundwater monitoring for the Southwest Division (SWDIV). Monitoring was conducted in areas that were in proximity to previously identified groundwater plumes and areas of soil contamination located on IR Sites 1 & 2, 3, 4, and 6A. IR Site 5 was not included in the groundwater monitoring program following a review of conditions at the site. Long-Term Groundwater Monitoring Program Reports are prepared quarterly by BNI (1997b) to summarize analytical results of groundwater sampling at IR Sites 1, 2, 3, 4, and 6A. The results of the first and third quarter sampling events for Site 3 are presented in this section. The Final FS report will include the results from the second and fourth quarter sampling events as well. The Draft Fourth Quarterly Monitoring Report was submitted in early November.

Activities conducted during the first monitoring period included groundwater potentiometric surface elevation monitoring, groundwater and field quality-control sample collection and analysis, and verification and validation of the resultant analytical data. Groundwater samples were collected from a total of fourteen groundwater monitoring wells, with sample collection beginning on November 21, 1996 and ending on December 3, 1996.

During the first quarter sampling, VOCs were detected in groundwater samples collected from monitoring wells MW-3-03, MW-3-06, and MW-3-07 at Site 3 (see Figure 1-3). The sample collected from MW-3-06 contained a single VOC compound (1,2-DCA at 38 µg/L) at a concentration exceeding the California Ocean Plan criteria (SWRCB, 1995).

Activities conducted during the third quarter monitoring period included groundwater potentiometric surface elevation monitoring, groundwater and field quality-control sample collection and analysis, and verification and validation of the resultant analytical data. Groundwater samples were collected from a total of fourteen groundwater monitoring wells, with sample collection beginning on April 15, 1997 and ending on April 22, 1997.

During third quarter sampling, VOCs were detected in groundwater samples collected from monitoring wells MW-3-03, MW-3-06, and MW-3-07 at Site 3 (see Figure 1-3). None of the samples collected at IR Site 3 contained a single VOC compound at a concentration exceeding the California Ocean Plan criteria (SWRCB, 1995).

5.2 IR Site 4: Mole Extension Operations. Little information is available regarding sources of contamination at IR Site 4. The potential contaminant source for AOPCs 1 (harbor sediments), 2 (jogging path surface soils), and 3 (fill material subsurface soil and groundwater on the outer edge of the mole) is considered to be the materials used for the mole extension operations. These materials reportedly included sandblast grit, construction and demolition debris, ships' keel blocks, trash, and soil. After a quantity of this material was accumulated onshore, it was bulldozed into the ocean to extend the limit of the mole. The IAS revealed that most of the wastes were covered with soil, although some scrap metal and other inert debris were noted at points along the shoreline of the mole. Although some of the fill material was expected to have contained asbestos, no visible evidence of asbestos at IR Site 4 was observed during the IAS (U.S. DON, 1983).

Potential contamination sources for AOPC 4 (subsurface soil and groundwater in ServMart Alternate Site 1) and AOPC 5 (subsurface soil and groundwater in the Original ServMart Site) consist of stored drums of fuel and oil, including possible solvents, household goods storage containers, small boats, large cable reels, cars, a crashed plane brought in from another site, large propeller shafts, ship gun barrels, ship sonar dome covers (rubber), and Milvans containing computers, furniture, and anything else a ship might wish to store (JEG, 1989). Additionally, fill materials from the mole extension operations could have been placed in these AOPCs; bilge water discharge from ships could have been emptied in unspecified areas of the mole (U.S. DON, 1983); and transformers containing polychlorinated biphenyls (PCBs) were reportedly stored at and subsequently removed from the site (JEG, 1989).

A potential contaminant source for AOPC 6 is an underground storage tank (UST) that reportedly contained petroleum hydrocarbons and was removed from the auto hobby shop in early 1994. Sample locations HP-4-02, HP-4-28, HP-4-29, and HP-4-30 were used to assess the impact of the petroleum hydrocarbons on the soil and groundwater. No other sources of contaminants have been reported.

No sources of contaminants have been reported at AOPC 7. However, a potential source is the storage and maintenance operations that have historically occurred in Buildings 719 and 720 (see Figure 5-2). Potential contaminant sources for AOPC 8 consist of a past storage lot for automobiles and

equipment that was in use as early as 1950, based on an aerial photograph review (BNI, 1996). Subsequent photographs documented the continued use of much of the site for equipment and/or materials storage. The only observations suggesting a possible contaminant source included January 1966 and February 1970 photographs, which showed several small buildings, one of which appeared to have three small above-ground tanks or vaults on its north side. The small buildings or sheds were visible in several other photos, but the tanks/vaults were not. The Fuel Farm and Fuel Pier were first visible in a 1986 photo.

The following sections summarize results of the RI, SFAs, and long-term groundwater monitoring at IR Site 4.

5.2.1 Remedial Investigation (RI). The results of the RI were presented in the Final RI Report (BNI, 1996). The following subsections summarize the results of the soil and groundwater sampling conducted at IR Site 4, as well as the results from the transport modeling presented in the RI report.

5.2.1.1 Results of the RI Soils Investigation. Individual organic chemicals were detected in a relatively uniform distribution among the surface soil samples collected from IR Site 4. These chemicals included the following: polycyclic aromatic hydrocarbons (PAHs), TICs, organotins, chlorinated solvents, petroleum hydrocarbons, phthalate compounds, and TPHD.

All of the IR Site 4 soil data were screened to determine COPCs. Table 5-3, taken from the Final RI Report, summarizes the COPCs defined by this screening process and shows a comparison of the detected value to the established soil screening criteria. The only organic COPC detected above screening criteria at IR Site 4 was chloroform. TPHD was detected above screening criteria at IR Site 4. The other COPCs detected above screening criteria were arsenic, beryllium, and cobalt; however, the concentrations of these elements approximate background concentrations (BNI, 1996).

5.2.1.2 Results of the RI Groundwater Investigation. The distributions of all organic and inorganic chemicals detected in groundwater below IR Site 4 are shown on the Chemical Concentration Distribution Maps in Appendix O of the Final RI Report (BNI, 1996). Chemicals detected in groundwater include (1) a dissolved chlorinated solvent and inorganic plume (AOPC 8), (2) a dissolved chlorinated solvent plume (AOPC 4), and (3) three dissolved TPH quantified as gasoline (TPHG) or TPHD plumes (AOPC 4, 6, and 7). Figure 1-4 shows the AOPC delineations at IR Site 4. Each plume is explained in the following:

- AOPC 8 – Chlorinated solvents (and breakdown products) include carbon tetrachloride, PCE, chloroform, TCE, 1,1,2,2-tetrachloroethane, bromodi-chloromethane, dibromochloromethane, carbon disulfide, bromoform, and VC at concentrations ranging from 1 to 572D µg/L. The lateral and vertical extents of the solvents have been determined to be nondetect or trace (5.0 µg/L) levels.
- AOPC 4 – A dissolved chlorinated solvent plume was delineated (laterally and vertically) below AOPC 4. The plume consists of 1,2-DCE (*cis* and total) and VC, at concentrations ranging from 0.6 to 79.33 µg/L. As discussed previously, 1,2-DCE and TCE were detected in vadose and saturated zone soils above the delineated plume.
- TPHG and TPHD plumes were laterally delineated below AOPCs 4, 6, and 7. The lateral extent of each plume was delineated to nondetectable concentrations. Concentrations of TPH range from 716 to 2,700 µg/L.

Table 5-3. COPCs Detected at Concentrations Exceeding the Statistical Background Concentration and/or the Industrial PRG in Surface and Subsurface Soils at IR Site 4

AOPCs	COPCs in Soil (Surface or Subsurface)	Range of Concentrations ^(a) in Soil (mg/kg)	Ratio of Concentration to Screen ^(b)	Screening Criteria ^(c)
2	Cobalt	14.1	1.15	Background
3	Cobalt	12.74 to 13.33	1.04 to 1.09	Background
4	Cobalt	12.79 to 13.9	1.04 to 1.13	Background
5	TPHD	14,000	1.40	10,000 mg/kg
	Cobalt	12.5B to 13.2	1.02 to 1.08	Background
6	Arsenic	10.03 to 11.05	1.35 to 1.49	Background
	Beryllium	1.37	1.10	Background
	Cobalt	12.97B to 24.45	1.06 to 2.00	Background
7	Cobalt	14.5	1.18	Background
8	Chloroform	3.860JD	2.40	PRG
	Arsenic	8.3 to 9.5	1.12 to 1.28	Background
	Cobalt	12.5B to 16.4	1.02 to 1.34	Background

(a) Only one value is listed for those COPCs detected at only one location.

(b) Ratio of measured COPC concentration to the applicable screening concentration (e.g., PRG, background, etc.).

(c) Screening criteria include (1) PRG, which refers to U.S. EPA *Region IX PRGs, Second Half 1994* (U.S. EPA, 1994) for industrial soil; (2) background, which refers to statistically calculated background metal concentrations values contained in Appendix H of the RI Report (BNI, 1996); and (3) 10,000 mg/kg for TPHD (RWQCB, 1996).

B Concentration reported is less than the Contract Required Detection Limit (CRDL) and greater than or equal to the Instrument Detection Limit (IDL) (inorganics only).

J Reported value is estimated; used for TICs, and used for target compounds when reported result is less than the CRQL and greater than the MDL.

D Sample analyzed at a secondary dilution factor.

With the exception of AOPC 8, most of the elements listed as TAL metals were detected at concentrations below or near statistically calculated background levels. No inorganic element was detected above statistical background concentrations in any sample collected from AOPC 4.

All of the IR Site 4 groundwater data were screened to determine COPCs. Table 5-4 summarizes the COPCs defined by this screening process and shows the groundwater screening criteria concentration. The groundwater screening criteria consisted of industrial PRGs, statistically calculated background concentrations, and detectable concentrations of TPHD and TPHG.

5.2.1.3 RI Fate and Transport Modeling. The fate and transport modeling of COPCs is limited to inorganic and organic COPCs detected above screening criteria. The inorganic COPCs, beryllium, chromium, copper, cyanide, lead, nickel, and zinc, were detected in a single sample in the AOPC 8 plume. It is suspected that this sample was unfiltered during sampling, resulting in nonrepresentative concentrations of metals in groundwater due to the sorption of metals to fine sediments. The RI report concluded that the potential for inorganic COPCs to transport with groundwater is unlikely because the inorganic COPCs are dissolved, and therefore would not be transported (BNI, 1996). Cyanide also was detected at a concentration higher than its background in a sample from AOPC 7. Mercury was detected at

concentrations slightly above its background value in samples from AOPC 6. These are minimal exceedances that are sporadic in nature. These metal concentrations are likely still within background; therefore, these inorganics were not evaluated for their transport (BNI, 1996).

Of the organic COPCs, 1,1,2,2-tetrachloroethane, bromodichloromethane, bromoform, carbon tetrachloride, chloroform, dibromochloromethane, and PCE were detected above the California Ocean Plan water quality objectives (SWRCB, 1995). Future leaching of these organic COPCs may be limited because they were not detected in vadose zone soil samples.

Table 5-4. COPCs Detected at Concentrations Exceeding the Statistical Background Concentration and Risk-Based Screening Criteria in Groundwater at IR Site 4

AOPCs	COPCs	Range of Concentrations (µg/L) ^(a)	Screen Concentration (µg/L)	Screening Criteria ^(b)
COPCs with Concentrations Exceeding Both Statistical Background and PRG Values				
3	Thallium	8B (1)	3.34	Background
4	1,2-DCE	69.17-79.33 (2)	55	PRG
	VC	0.6 (1)	0.02	PRG
	TPHD	1,200-2,700 (2)	500 mg/L	Above Detection
	TPHG	1,400 (1)	100 mg/L	Above Detection
5	Antimony	90 (1)	64.9	Background
	Thallium	14 (1)	3.34	Background
6	Arsenic	29 (1)	18.5	Background
	TPHD	2,200 (1)	500 mg/L	Above detection
7	TPHD	716 (1)	500 mg/L	Above detection
8	Dibromochloromethane	11-394D (2)	1.0	PRG
	PCE	10.8D (1)	1.1	PRG
	Carbon tetrachloride	20.6D (1)	0.17	PRG
	Chloroform	3.7-460D (5)	0.16	PRG
	Aluminum	495,000 (1) ^(c)	36,500	PRG
	Lead	105.4 (1) ^(c)	22.3	Background
	Manganese	16,800 (1) ^(c)	6,090	Background
	Nickel	762 (1) ^(c)	730	PRG
	Antimony	171 (1) ^(c)	64.9	Background
	Beryllium	19 (1) ^(c)	2.10	Background
	Chromium	4,470 (1) ^(c)	283	PRG
	Cobalt	358 (1) ^(c)	64.6	Background
	Copper	2,270 (1) ^(c)	108	Background
	Vanadium	1,500 (1) ^(c)	256	Background
	Methylene chloride	5 - 14.2JD (3)	4.3	Background
	Carbon disulfide	331D (1)	21	PRG
	Bromoform	13 - 572D (2)	8.5	PRG
	Bromodichloromethane	14-437D (2)	0.18	PRG
	1,1,2,2-Tetrachloroethane	9 (1)	0.055	PRG
	TCE	12.4JD (1)	1.6	PRG
	VC	0.5 (1)	0.02	PRG

Table 5-4. COPCs Detected at Concentrations Exceeding the Statistical Background Concentration and Risk-Based Screening Criteria in Groundwater at IR Site 4 (cont'd.)

AOPCs	COPCs	Range of Concentrations (µg/L) ^(a)	Screen Concentration (µg/L)	Screening Criteria ^(b)
COPCs with Concentrations Exceeding Both Statistical Background and MCL Values^(d)				
3	Thallium	8 (1)	3.34	Background
5	Antimony	90 (1)	64.9	Background
	Thallium	14 (1)	3.34	Background
8	Bromodichloromethane	437D (1)	100	MCL
	Bromoform	572D (1)	100	MCL
	Carbon tetrachloride	20.6D (1)	5	MCL
	Chloroform	120 - 460D (2)	100	MCL
	PCE	10.8D (1)	5	MCL
	TCE	12.4JD (1)	5	MCL
	Antimony	171 (1) ^(c)	64.9	Background
	Beryllium	19 (1) ^(c)	4	MCL
	Chromium	4,470 (1) ^(c)	283	Background
	Copper	2,270 (1) ^(c)	1,300	MCL
	Lead	105.4 (1) ^(c)	22.3	Background
	Nickel	200 - 762 (2) ^(c)	122	Background

(a) The number in parentheses indicates the number of samples containing detectable levels of the analyte.

(b) Screening criteria include (1) PRG, which refers to U.S. *EPA Region IX PRGs, Second Half 1994* (U.S. EPA, 1994); (2) background, which refers to statistically calculated background metal concentrations contained in Appendix H of the RI Report (BNI, 1996); (3) all detectable levels of TPH, and (4) MCL, which refers to the U.S. EPA MCLs for drinking water, May 1995 (U.S. EPA, 1995).

(c) Groundwater sample from HP-4-16 was not filtered.

(d) Evaluation was only performed on COPCs for which an MCL has been assigned.

B Concentration reported is less than the Contract Required Detection Limit (CRDL) and greater than or equal to the Instrument Detection Limit (IDL) (inorganics only).

J Reported value is estimated; used for TICs, and used for target compounds when reported result is less than the CRQL and greater than the MDL.

D Sample analyzed at a secondary dilution factor.

Contaminant transport modeling was performed with the ODAST computer program (Javandel et al., 1984). All of the organic COPCs and 1,2-DCE were modeled at IR Site 4. The calculations performed using ODAST estimate that the receiving surface waters and harbor sediments will not be impacted by transport of the COPCs in the IR Site 4 groundwater plume (BNI, 1996).

5.2.1.4 RI Conclusions and Recommendations. Organic and inorganic COPCs were detected in soils and groundwater at IR Site 4, which contributed to the utility maintenance worker risk. However, based on the IR Site 4 calculated upper confidence limits (UCLs), the risk associated with each individual chemical detected in site media is within the NCP-defined generally acceptable range of 1×10^{-4} to 1×10^{-6} . The risk associated with arsenic contributes 48 percent of the total risk.

No COPCs or AOPCs were identified as COCs or AOCs at IR Site 4 (BNI, 1996). Based on an industrial scenario and subtracting out the background contribution of arsenic, the overall site risk fell below the NCP-defined departure point for determining remediation goals. The RI report concluded that

remedial action did not appear warranted at this site. No further remedial action was recommended at IR Site 4.

Based on the concentrations of chemicals reported in a sample from HP-4-16 that exceeded the California Ocean Plan criteria, the Base Realignment and Closure (BRAC) Cleanup Team (BCT) identified four existing groundwater monitoring wells within AOPC 8 to be included in the quarterly groundwater quality monitoring program. The monitoring of VOCs in samples from MW-4-06, -07, and -08 along with MW-3-02 was recommended. Also, it was recommended that well MW-04-09 be included in the quarterly groundwater quality monitoring program (see Figure 5-2 for monitoring well locations at IR Site 4).

5.2.2 Supplemental Field Activities (SFAs). Because various dissolved organic plumes were identified at IR Site 4 during the RI, more extensive groundwater sampling was performed during the SFAs (BNI, 1997a). This section presents a summary of the SFAs at IR Site 4, conclusions determined from these activities, and recommendations for future actions at the site.

5.2.2.1 SFA Summary. VOCs detected in the shallow water-bearing zone (depths less than approximately 51 feet bgs) included several chlorinated and nonchlorinated VOCs. Chlorinated VOCs detected in the groundwater beneath AOPC 4 included *cis*-1,2-DCE, 1,2-DCE (total), and VC. Nonchlorinated VOCs detected in the groundwater of AOPC 4 included acetone and 2-butanone (methyl ethyl ketone [MEK]). Using the California Ocean Plan criteria for comparison, VOC analytical data from both the RI and the SFA were reviewed. Based on this comparison, the detected VOC concentrations were below the California Ocean Plan criteria (SWRCB, 1995).

5.2.2.2 SFA Conclusions and Recommendations. Recommendations were based on a comparison of the VOC analytical results from the RI and SFAs for the groundwater beneath IR Site 4 (AOPC 4) to the California Ocean Plan (SWRCB, 1995) criteria. The VOC analytes detected in groundwater beneath the site were present at concentrations below those listed in the plan, or else no criteria were established in the plan. TCL VOCs detected in groundwater were present at levels below California Ocean Plan criteria and appeared to be concentrated in the central portion of the site. The mixing of groundwater from this site with nearby ocean waters appeared to have minimal impact on the ocean water, a conclusion supported by the nondetect results from the monitoring well (MW-4-09) installed as part of the SFA.

Based on the analytical data, TCL VOCs were not detected in the groundwater sample collected from the monitoring well (MW-4-09) installed as part of the SFAs. Therefore, the analytical results support the findings of the RI report (BNI, 1996) and the recommendation for groundwater monitoring at this site was considered appropriate and recommended in the SFAs.

5.2.3 Long-Term Groundwater Monitoring. As a result of the recommendations presented in the RI and SFA reports (BNI, 1996 and 1997a), a long-term groundwater monitoring program was initiated at the Long Beach NAVSTA that includes IR Site 4. During the first quarter sampling, VOCs were detected in groundwater samples collected from monitoring wells MW-4-05, MW-4-09, and SCS-MW-1 (wells prefixed SCS were drilled by SCS Engineering). The sample collected from MW-4-09 contained a single VOC compound (1,2-DCA at 39 µg/L) at a concentration exceeding its California Ocean Plan criteria (SWRCB, 1995).

During third quarter groundwater sampling, VOCs were detected in groundwater samples collected from monitoring wells MW-4-05, MW-4-09, SCS-MW-1, MW-4-02, MW-4-06, and MW-4-08. TPHG and TPHD were detected in groundwater samples from monitoring wells MW-4-05, MW-4-09, and SCS-MW-1. None of the samples collected at Site 4 contained a single VOC compound at a concentration exceeding the California Ocean Plan criteria (SWRCB, 1995).

5.3 IR Site 5: Skeet Range Solid Waste Fill Area. No sources of contamination were identified for AOPC 1 (surface soils) at IR Site 5. However, it is possible that waste liquids were used on site for dust suppression and compaction of fill materials. In addition, pesticides used over the life of the NAVSTA may also have been used at the site as a part of landscaping efforts.

Potential sources for AOPC 2 (subsurface soil and groundwater) consist of solid waste fill operations, which reportedly occurred in the late 1930s to 1968. Items such as bedframes, desks, fire brick, and construction debris were disposed at Site 5. No industrial wastes were reportedly disposed of at this location (U.S. DON, 1983).

The following sections summarize results of the RI conducted at IR Site 5.

5.3.1 Remedial Investigation (RI). The results of the RI were presented in the Final RI Report (BNI, 1996). The following subsections summarize the results of the soil and groundwater sampling conducted at IR Site 5, as well as the results from the transport modeling presented in the RI report.

5.3.1.1 Results from the RI Soils Investigation. The majority of the individual organic chemicals detected were in a relatively uniform distribution among the surface soil samples collected from AOPC 1. These chemicals included PAHs, SVOCs, TICs, pesticides, and PCBs. Organic chemicals detected from subsurface soils at AOPC 2 included chlorinated and nonchlorinated solvents, TPHG, and TPHD.

Most of the inorganic elements on the TAL metals list were detected in soils and were relatively uniformly distributed across each AOPC. The concentrations of arsenic and cobalt within the surface and subsurface soils in AOPCs 1 and 2 appear to fall within the range of background conditions. Based on the screening performed in the RI, no COPCs occur in soils within AOPCs 1 and 2. Table 5-5, taken from the Final RI Report, presents the COPCs detected in soils at concentrations above the screening criteria (industrial PRGs and statistically calculated background concentrations).

Table 5-5. COPCs Detected at Concentrations Exceeding the Statistical Background Concentration and/or the Industrial PRG in Surface and Subsurface Soils at IR Site 5

AOPCs	COPCs in Soil (Surface or Subsurface)	Range of Concentrations ^(a) in Soil (mg/kg)	Ratio of Detected Concentration to Screening Criteria ^(b)	Screening Criteria ^(c)
1	Arsenic	7.8	1.05	Background
2	Arsenic	9.35	1.26	Background
	Cobalt	14.71 to 16.51	1.20 to 1.35	Background

(a) Only one value is listed for those COPCs detected at only one location.

(b) Ratio of measured COPC concentration to the applicable screening concentration (e.g., PRG, background, etc.).

(c) Screening criteria include (1) PRG, which refers to U.S. EPA *Region IX PRGs, Second Half 1994* (U.S. EPA, 1994) for industrial soil; and (2) background, which refers to statistically calculated background metal concentrations contained in Appendix H of the RI Report (BNI, 1996).

5.3.1.2 Results from the RI Groundwater Investigation. As reported in the RI report, contaminants detected in the groundwater at IR Site 5 included chlorinated solvents and inorganics. 1,3-DCB, 1,4-DCB, and acetone were detected in some samples; however, their presence was most likely due to laboratory contamination (BNI, 1996).

PCE was detected at a concentration of 18.54 µg/L in a single HydroPunch™ groundwater sample (HP-5-03) (see Figure 5-3). HydroPunch™ and monitoring well groundwater samples were collected laterally and vertically surrounding the HP-5-03 sample; with two exceptions, VOCs were not detected in any of these sampling locations. Both exceptions were attributed to laboratory contamination (BNI, 1996). The single groundwater sample detected with PCE may be associated with disposal operations that occurred on the southern edge of the site; or there may have been an undocumented, localized spill of this material in that area. Table 5-6 presents the COPCs detected in groundwater at concentrations above screening criteria (industrial PRGs, MCLs, and statistical background concentrations).

Table 5-6. COPCs Detected at Concentrations Exceeding the Statistical Background Concentration and Risk-Based Screening Criteria in Groundwater at IR Site 5

AOPCs	COPCs	Concentration ^(a) (µg/L)	Screen Concentration (µg/L)	Screening Criteria ^(b)
COPCs with Concentrations Exceeding Both Statistical Background and PRG Values				
2	PCE	18.54 (1)	1.08	PRG
COPCs with Concentrations Exceeding Both Statistical Background and MCL Values^(c)				
2	PCE	18.54 (1)	5	MCL

- (a) (X) indicates that X number of samples contained detectable levels of the analyte exceeding statistical background and screening criteria.
- (b) Screening criteria include (1) PRG, which refers to U.S. EPA *Region IX PRGs, Second Half 1994* (U.S. EPA, 1994); (2) background, which refers to statistically calculated background metal concentrations contained in Appendix H of the Final RI Report (BNI, 1996); and (3) MCL, which refers to the U.S. EPA MCLs for drinking water, May 1995 (U.S. EPA, 1995).
- (c) Evaluation was only performed on COPCs for which a MCL has been assigned.

5.3.1.3 RI Fate and Transport Modeling. The fate and transport of COPCs is limited to inorganic and organic COPCs detected above screening criteria.

The only COPC detected at concentrations above the screening criteria is PCE at 18.54 µg/L in the shallow groundwater at AOPC 2. Future leaching of PCE should be limited because it was not detected in vadose zone soils, indicating that there are no vadose zone sources at IR Site 5 (BNI, 1996). No inorganic COPCs were detected above screening levels.

Contaminant transport modeling was performed with the ODAST computer program (Javandel et al., 1984). The organic COPC, PCE, was modeled at IR Site 5. The calculations performed using ODAST and mixing factors estimate that the receiving surface waters and harbor sediments will not be impacted by transport of the COPCs in the groundwater at IR Site 5 (BNI, 1996).

5.3.1.4 RI Conclusions and Recommendations. No COPCs or AOPCs were identified as COCs or AOCs at IR Site 5 (BNI, 1996). The overall site risk based on an industrial scenario (subtracting the background contribution of arsenic) falls within the NCP-defined generally acceptable range of 1×10^{-4} to 1×10^{-6} . Therefore, remedial action at this site does not appear warranted. No further action is recommended at IR Site 5 at this time.

Upon review of the site groundwater conditions during the January 31, 1996 meeting on responses to comments on the RI/FS (BNI, 1996), quarterly groundwater quality monitoring was not recommended by the BCT.

5.4 IR Site 6A: Boat Disposal Location. Potential contaminant sources for AOPCs 1, 2, and 3 (surface and subsurface soils) consist of former disposal operations, which included landfilling of solid wastes by cut-and-fill methods in the majority of AOPC 2, and scrap yard areas on the western 300 feet of the site (AOPC 3). Landfilling reportedly began in the mid-1940s (U.S. DON, 1983) and was shown to continue in aerial photographs taken in 1962. The IAS indicates that landfilling continued through the mid-1960s. The IAS reported that old boats (primarily camel floats), sandblast waste, and shipyard solid wastes were disposed of at this site. Initially, disposal was reportedly in the area of the Building 95 (commissary) parking lot, and waste burial operation proceeded westward toward the "old" scrap yard (U.S. DON, 1983). There are no reports of large quantities of liquid or chemical wastes disposed of within the cut-and-fill operations (U.S. DON, 1983). Waste oils used for compaction and dust suppression reportedly may have been sprayed during on-site operations (U.S. DON, 1983). These liquids may account for unidentifiable SVOCs detected within AOPCs 1, 2, and 3. By 1970, the western area (in aerial photographs) appeared to contain several aboveground tanks, which could have contributed organic chemicals detected in soils within AOPC 3. Additionally, chemicals inherent to the scrap yard operations may have contributed to the occurrence of COPCs detected in AOPC 3 groundwater.

The following sections summarize results of the RI, SFA, and long-term groundwater monitoring at IR Site 6A.

5.4.1 Remedial Investigation (RI). The results of the RI were presented in the Final RI Report (BNI, 1996). The following subsections summarize the results of the soil and groundwater sampling conducted at IR Site 6A, as well as the results from the transport modeling presented in the RI report.

5.4.1.1 Results of the RI Soils Investigation. Organic contaminants detected above screening criteria (industrial PRGs, statistical background concentrations, and 1,000 mg/kg of TPH) included the following: pentachlorophenol, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, Aroclor-1254, and Aroclor-1260. These compounds, most of which are PAHs, were detected in soil boring numbers SB-4, SB-8, SB-18, SB-19, SB-20, SB-23, SB-32, SB-33, and SB-35 (see Figure 5-4). The PAHs are generally constituents of TPH, and are most likely the result of past site activities (BNI, 1996).

Inorganic COPCs detected above screening criteria included arsenic and cobalt. Most arsenic and cobalt concentrations within AOPC 2 appear to fall within the range of background conditions. Table 5-7 presents the organic and inorganic COPCs detected in soil at concentrations above the screening criteria.

5.4.1.2 Results of the RI Groundwater Investigation. Organic chemicals detected in the groundwater at IR Site 6A included chlorinated solvents, SVOCs, and phthalates. Most of the elements listed on the TAL metals were detected at concentrations at or below statistically calculated background levels, with the exception of isolated detections of arsenic, barium, cyanide, and selenium at AOPC 2.

A dissolved-solvent plume was delineated below IR Site 6A. The organic chemicals detected above the screening criteria (industrial PRGs, MCLs, and statistical background concentrations) include 1,4-DCB, benzene, and VC, at concentrations ranging from 1.5 to 22.19 µg/L. These chemicals were used as (or in) solvents and fuels for industrial processes consistent with those that have historically occurred on the LBNC. In addition, these chemicals (except benzene) have the potential to be products of

Table 5-7. COPCs Detected at Concentrations Exceeding the Statistical Background Concentration and/or the Industrial PRG in Surface and Subsurface Soils at IR Site 6A

AOPCs	Soil Boring No.	COPCs in Soil (Surface or Subsurface)	Range of Concentrations ^(a) in Soil (mg/kg)	Ratio of Concentration to Screen ^(b)	Screening Criteria ^(c)
1	SB-11/SB-24/SB-25/SB-35/ SB-36	TPHD	1,100 to 1,500	1.1 to 1.5	1,000 mg/kg
	SB-18/SB-19	Benzo(a)pyrene	0.31 to 0.76	1.19 to 2.91	PRG
	SB-8/SB-19/ SB-20/SB-35	Aroclor 1260	0.43J to 0.58J	1.26 to 1.71	PRG
2	SB-19/SB-23/SB-32/SB-33/ SB-35	TPHD	1,000 to 16,000	1 to 16	1,000 mg/kg
	SB-13/SB-23/SB-33	Arsenic	9.3 to 21.3	1.26 to 2.87	Background
	SB-23	Cobalt	23.8 to 28.7	1.94 to 2.34	Background
	SB-23	Pentachlorophenol	9.5J	1.20	PRG
	SB-32	Benzo(a)anthracene	7.8J	2.98	PRG
	SB-4/SB-32	Benzo(a)pyrene	0.31J to 2J	2.26 to 7.65	PRG
	SB-32	Benzo(b)fluoranthene	5.5J	2.10	PRG
	SB-32	Dibenzo(a,h)anthracene	0.56J	2.14	PRG
	SB-23/SB-33	Aroclor-1254	0.71J to 2.2	2.09 to 6.47	PRG
	SB-19/SB-35	Aroclor-1260	0.35J to 0.64JP	1.03 to 1.88	PRG

- (a) Only one value is listed for those COPCs detected at only one location.
- (b) Ratio of measured COPC concentration to the applicable screening concentration (e.g., PRG, background, etc.).
- (c) Screening criteria include (1) PRG, which refers to U.S. EPA *Region IX PRGs, Second Half 1994* (U.S. EPA, 1994) for industrial soil; (2) background, which refers to statistically calculated background metal concentrations values contained in Appendix H of the RI Report (BNI, 1996); and (3) 1,000 mg/kg for TPHD (RWQCB, 1996).
- J Reported value is estimated; used for TICs and target compounds when reported result is less than the CRQL and greater than the MDL.
- P Pesticide/PCB target analyte with greater than 25% difference for detected concentrations between the two gas chromatograph columns; the lower of the two values is reported.

the chemical degradation of PCE and/or each other. VC is a gas at room temperature (Montgomery and Welkom, 1990). It is commonly used in the manufacturing of various materials and chemicals. Because there is no record of this type of manufacturing on the LBNC, the occurrence of this COPC is attributed to the chemical biodegradation of other chlorinated solvents detected within the plume.

A chlorinated solvent plume was delineated in AOPC 3. The chemicals included chloroform, PCE, TCE, and VC at concentrations ranging from 2.05 to 1,500 µg/L. These chemicals were used as (or in) solvents and fuels for industrial processes consistent with those that have historically occurred on the LBNC. Table 5-8 presents the COPCs detected in groundwater at concentrations above the screening criteria.

Table 5-8. COPCs Detected at Concentrations Exceeding the Statistical Background Concentration and Risk-Based Screening Criteria in Groundwater at IR Site 6A

AOPCs	COPCs	Range of Concentrations ^(a) (µg/L)	Screen Concentration (µg/L)	Screening Criteria ^(b)
COPCs with Concentrations Exceeding Both Statistical Background and PRG Values				
2	1,4-DCB	1 to 22.19 (8)	0.467	PRG
	Arsenic	34B to 53 (2)	18.5	Background
	VC	1.5 to 6.2 (2)	0.0198	PRG
	Benzene	2 (1)	0.39	PRG
3	Chloroform	7.1 (1)	0.165	PRG
	PCE	12.8 to 1,500 (2)	1.08	PRG
	TCE	2.05J to 51 (2)	1.64	PRG
	VC	22 (1)	0.0198	PRG
COPCs with Concentrations Exceeding Both Statistical Background and MCL Values^(c)				
2	VC	6.2 (1)	2	MCL
	Arsenic	53 (1)	50	MCL
3	PCE	12.8 to 1,500 (2)	5	MCL
	TCE	51 (1)	5	MCL
	VC	22 (1)	2	MCL

- (a) The number in parentheses indicates the number of samples containing detectable levels of the analyte above screen.
- (b) Screening criteria include (1) PRG, which refers to U.S. EPA *Region IX PRGs, Second Half 1994* (U.S. EPA, 1994); (2) background, which refers to statistically calculated background metal concentrations values contained in Appendix H of the RI Report (BNI, 1996); and (3) MCL, which refers to the U.S. EPA MCLs for drinking water, May 1995 (U.S. EPA, 1995).
- (c) Evaluation was only performed on COPCs for which an MCL has been assigned.
- B Concentration reported is less than the CRDL and greater than or equal to the IDL (inorganics only).
- J Reported value is estimated; used for TICs, and for target compounds when reported result is less than the CRQL and greater than the MDL.

5.4.1.3 RI Fate and Transport Discussion. The fate and transport of inorganic and organic COPCs detected above screening criteria were analyzed in the RI. The inorganic COPCs at IR Site 6A are arsenic and cobalt. Arsenic and cobalt are both present in the subsurface soil, and arsenic is also present in the groundwater. Because the exceedances of arsenic were sporadic and the amount minimal, arsenic was not evaluated for contaminant transport in groundwater (BNI, 1996).

Cobalt was detected in soils at levels greater than its screening concentration, but did not exceed groundwater criteria. At the LBNC, concentrations of cobalt in soils are correlated with concentrations of manganese in soils. As explained in detail in a position paper in Appendix H2 of the RI (BNI, 1996), cobalt tends to be retained by manganese oxides in soil, and was found to be correlated to the concentration of manganese in soil at LBNC, thus limiting its leachability and mobility.

Cyanide was detected at a concentration of 9 µg/L in the groundwater at AOPC 2, while the background for cyanide is 8.99 µg/L. Therefore, the detection is considered background, not an exceedance (BNI, 1996).

Of the organic COPCs, 1,4-DCB, PAH, PCE, and TCE were reported at concentrations greater than the California Ocean Plan Water Quality objectives. In general, VOCs were detected in the shallow groundwater and it is likely that organic chemicals present in the vadose-zone soils have leached into groundwater beneath the site (BNI, 1996). This is evident by the occurrence of two dissolved plumes of chlorinated hydrocarbons detected in groundwater. Groundwater beneath IR Site 6A appears to flow toward the north, away from San Pedro Bay; thus, there is a potential for the COPCs to be transported in this direction.

5.4.1.4 RI Conclusions and Recommendations. Based on the HHRA calculations, no COPCs or AOPCs were identified as COCs or AOCs at IR Site 6A. The overall risk imposed at the site to on-site workers was within the U.S. EPA-defined generally acceptable range of 1×10^{-4} to 1×10^{-6} and no further action was recommended for the soil medium at IR Site 6A in the Final RI Report (BNI, 1996).

Based on review of the groundwater conditions at AOPC 2, the BCT established in the January 31, 1996 RI Comment-Resolution Workshop that an additional well (proposed well MW-6A-09) was needed on IR Site 6A to confirm and monitor the northeastern boundary of the identified 1,4-DCB groundwater plume. The BCT decided that this additional well would be installed subsequent to the completion of the RI. After installation of the proposed well, groundwater quality monitoring of VOCs and arsenic in samples from MW-6A-09 was recommended.

It was further recommended that additional off-site investigation be performed to delineate the northern (downgradient) extent of the PCE plume identified on the northwestern portion of the site. The Final RI Report recommended that the investigation include the collection of shallow groundwater samples from a series of HydroPunch™-like locations, starting with two locations at the northern edge of IR Site 6A. The installation of a groundwater monitoring well also was recommended subsequent to the completion of the plume delineation. Finally, it was recommended that upon completion of the additional assessment activities, groundwater wells associated with the VOC plume at IR Site 6A should be included in the quarterly groundwater quality monitoring program recommended for the NAVSTA.

5.4.2 Supplemental Field Activities (SFAs). Due to detection of various chlorinated and nonchlorinated organic compounds in groundwater during the RI, more extensive sampling and plume delineation was performed during the SFAs (BNI, 1997a). This section presents a summary of the additional activities and provides conclusions and recommendations based on the SFAs at IR Site 6A.

5.4.2.1 SFA Summary. The RI detected VOCs in the shallow water-bearing zone beneath IR Site 6A (depths less than approximately 52 feet bgs). The analytes detected included several chlorinated and nonchlorinated VOCs. Groundwater samples collected from HydroPunch™-like location HP-6A-13, installed as part of the SFA, detected PCE and TCE below California Ocean Plan criteria (SWRCB, 1995). HP-6A-14 had detectable amounts of TCE, but fell below California Ocean Plan criteria. HP-6A-15 was nondetect for all VOCs. HP-6A-16 had detectable concentrations of acetone, carbon disulfide, 2-butanone, and toluene that either fell below California Ocean Plan criteria, or had no value listed in the California Ocean Plan. The detected acetone, 2-butanone, and toluene were eliminated from the list of detected chemicals (COPCs) based on field quality control (QC) sample results.

5.4.2.2 SFA Conclusions and Recommendations. After a comparison of the detected analytes in the groundwater during the RI and SFAs to the California Ocean Plan criteria (SWRCB, 1995), it was determined that only contaminants detected on site during the RI are present in groundwater at concentrations in excess of California Ocean Plan criteria. Groundwater samples collected from the HydroPunch™-like locations installed as part of the SFA with detectable concentrations of VOCs were below California Ocean Plan requirements. The nondetect results and those below California Ocean Plan

criteria for VOCs in groundwater samples collected during the SFAs delineate the lateral and vertical extent of the VOC plume identified in the RI Report (BNI, 1996).

Based on the analytical data, VOCs were detected at IR Site 6A (AOPC 3), but the concentration of VOCs detected in groundwater samples collected from the four HydroPunch™-like sample locations (HP-6A-13, HP-6A-14, HP-6A-15, and HP-6A-16) (see Figure 5-4) installed as part of the SFA fell below California Ocean Plan criteria. Additionally, VOC concentrations detected during the SFA were well below those identified in the RI for the on-site PCE plume; therefore, re-evaluation of the baseline HHRA did not appear warranted. Because the analytical data delineate the extent of the VOC plume, the installation of one groundwater monitoring well on the downgradient edge of the plume and quarterly monitoring were recommended in the SFAs.

5.4.3 Long-Term Groundwater Monitoring. Because of construction activities in and around IR Site 6A during the first three quarters of groundwater monitoring at NAVSTA Long Beach, groundwater monitoring was not performed at IR Site 6A. IR Site 6A was sampled during the fourth quarter sampling event and the draft version of the fourth quarter report was submitted in early November 1997. Also, a downgradient well was installed at IR Site 6A and analytical results from this well were included in the fourth quarter report.

Section 6: SUMMARY OF SITE RISKS

A HHRA was performed as part of the RI (BNI, 1996). Analytical data were evaluated and COPCs were identified and compiled into a database. The COPC database was then statistically evaluated to calculate the 95% UCL for all remaining analytes. These UCL concentrations were used as input to the HHRA calculations. The ELCR and the chronic hazard index were calculated for industrial worker and utility maintenance worker scenarios, which the approved Reuse Plan has deemed the most likely scenarios for current and future land use. The ELCR and hazard index were also estimated for residential scenarios for comparison purposes only. COPCs and corresponding AOPCs were identified based solely on the results of the industrial scenarios. The RI Report defined ELCR as the risk presented by COPCs present at a given site, excluding COPCs whose concentrations were within the background range.

Cancer risk is expressed in terms of the chance of contracting cancer over a human's lifetime due to exposure to site chemicals, and is called the excess lifetime cancer risk (ELCR). A risk of 1 out of 1 million means that one additional person out of a group of 1 million may develop cancer as a result of exposure to a chemical. The U.S. EPA considers a risk of less than 1×10^{-6} (1 in a million) to be protective of human health, and uses this value as the point of departure. According to the U.S. EPA, acceptable exposure levels to known or suspected carcinogens are generally concentration levels that represent an ELCR to an individual of between 1×10^{-4} to 1×10^{-6} , based on an industrial exposure scenario. The range of ELCR between 1×10^{-4} and 1×10^{-6} is hereafter referred to in this document as the EPA-defined generally acceptable range. An ELCR above 10^{-4} (e.g., 10^{-3}) generally requires remedial action.

Non-cancer health effects are evaluated in terms of a hazard index (the ratio of the actual or potential level of exposure to an acceptable level of exposure). EPA uses a hazard index level of less than 1 to be acceptable for non-cancer health effects. Non-cancer hazards significantly above 1 indicate a potential for adverse effects.

The HHRA in the RI Report calculated ELCRs for both industrial worker and utility maintenance worker scenarios for IR Sites 3, 4, 5, and 6A. All estimates were within or below the EPA-defined generally acceptable range except for the industrial worker scenario at IR Site 3 (BNI, 1996). IR Site 3 contained a visibly stained area, defined as AOPC 4, that had elevated arsenic concentrations in surface soils.

A removal action was performed to remove metals-contaminated surface soils at the stained area (AOPC 4) on IR Site 3. The removal action goal at IR Site 3, AOPC 4 was established to reduce arsenic exposure such that the ELCR and noncancer risk to an industrial and/or utility maintenance worker would not exceed the risk posed by a geochemical background concentration of arsenic of 12 mg/kg. In order to accomplish this goal, soil was removed down to 1 ft bgs in a 15-ft by 24-ft area centered on the previous shallow soil sample locations. Also, additional soil was removed in a 5-ft-wide band centered on the west and north sides of the excavation down to 2 ft bgs. A total estimated amount of 40 yd³ of soil was removed and clean backfill was placed in the excavation. Based on the risk calculations in the RI, removal of soil containing arsenic concentrations exceeding 12 mg/kg has reduced the hazard index to less than 1.0 and the ELCR to 8.0×10^{-6} , within the EPA-defined generally acceptable range.

The concentrations of noncarcinogenic chemicals at all of the sites do not appear to be sufficient to cause noncancer adverse health effects in the industrial worker or the utility maintenance worker at any of the sites. That is, the hazard index was found to be less than 1 for all the sites under the industrial worker and utility maintenance worker scenarios. Likewise, lead concentrations in the soil and groundwater do not appear to be sufficient to cause adverse health effects to the industrial or utility

maintenance worker at any of the sites, based on California Environmental Protection Agency (Cal-EPA) Leadsread (Version 6.0) (Cal-EPA, 1993) results.

Based on the results of the soil and groundwater sampling, a HHRA was performed for IR Sites 3 through 6A (BNI, 1996). The HHRA was presented in the Final RI Report and formed the basis for future recommendations at each of the sites. This risk assessment presented risk estimates, identified the chemicals that accounted for most or all of the total risk in each contaminated medium, and discussed the uncertainties in the risk estimates. The HHRA in the RI Report estimated potential risks presented by chemicals known or suspected to have been released at IR Sites 3, 4, 5, and 6A. The risk estimates were based on exposure of an industrial worker (a person who works at a site 8 hours per day, 5 days a week, 250 days per year for 25 years), an underground utility maintenance worker (a person who repairs buried utility lines at a site 8 hours per day, 10 days per year for 25 years), and, for comparison purposes only, a resident (a person who lives in a house on a site for 30 years and is exposed 350 days per year).

The term "pathway" identifies the environmental medium (water, soil, air) by which a chemical travels from its source to the receptor, and the term "route" identifies the mechanism by which the chemical enters the body (ingestion, inhalation, dermal contact). For chemicals in soil, potential exposure pathways and routes for the industrial and utility maintenance workers are (1) direct contact with soil through ingestion and dermal contact, (2) inhalation of volatile chemicals released to the atmosphere from soil, and (3) inhalation of chemicals sorbed to soil particles entering the atmosphere through wind erosion. For purposes of the risk assessment, no ground cover, such as roads, buildings, parking lots, or grass, was assumed to be present on any site. In reality, all of the sites have partial or complete ground cover. This intentionally conservative assumption probably overestimated the exposure of workers to chemicals present in the soil. For chemicals in groundwater, no complete exposure pathways were assumed for the industrial worker because groundwater beneath the sites is non-potable and has been designated for non-beneficial use. However, for the utility maintenance worker who may work in trenches containing some groundwater, exposure may occur through direct dermal contact with the water or through inhalation of volatile chemicals released from groundwater into the atmosphere. Only direct dermal contact was evaluated in the risk calculations. If, after the DON transfers the property, the exposure scenarios at IR Sites 3, 4, 5, and 6A change (e.g., because of construction of buildings, etc.), the HHRA may need to be re-evaluated by the new property owner.

Some risk exists to the surrounding environment due to the low levels of contaminants that were detected at IR Sites 3, 4, 5, and 6A. There is the possibility of migration of contaminants in the groundwater into nearby ocean waters, thereby affecting aquatic life. Fate and transport computer modeling concluded as part of the RI concluded that the resultant concentrations in aquatic environments are not likely to pose an unacceptable risk to aquatic life. However, at IR Sites 3, 4, and 6A, a groundwater monitoring program is being conducted to verify the results of the computer modeling. After review of groundwater conditions at IR Site 5, it was concluded that groundwater monitoring was not required. Based on the results of the November 1997 groundwater sampling, the Los Angeles RWQCB has concurred that additional groundwater monitoring is not required at IR Site 4.

6.1 IR Site 3 Results of the RI HHRA. A HHRA was presented in the RI report and formed the basis for future recommendations for IR Site 3. The results of the HHRA are summarized in Table 6-1 for the industrial worker, utility maintenance worker, and hypothetical resident. The anticipated future landuse is industrial. However, a residential scenario was evaluated for comparative purposes. The estimated cancer risks based on reasonable maximum exposure of an industrial worker and an underground utility maintenance worker are within the range the U.S. EPA considers as generally acceptable (i.e., 1×10^{-6} to 1×10^{-4}). Also, the potential for systemic toxicity at all AOPCs at IR Site 3 was acceptable (i.e., the hazard index was less than 1). Because of residual arsenic contamination, potential risk associated with residential use of IR Site 3 remains high. Lead did not present a significant risk at this site.

Table 6-1. Results from the HHRA at IR Site 3

Estimates of Risk	Industrial Worker ^(a)	Utility Maintenance Worker ^(b)	Resident ^(b)	Risk Drivers
ELCR	8.0×10^{-6} ^(a)	6.1×10^{-5} ^(b)	2.9×10^{-3} ^(b)	Soil—arsenic Groundwater—VC
Hazard Index	2.8 < 1 ^(a)	0.46 ^(b)	54 ^(b)	
99th percentile blood-lead level ^(c)	6.1 µg/dL	4.0 µg/dL	16.9 µg/dL (child) 6.1 µg/dL (adult)	

(a) ELCR and Hazard Index calculated after removal activities at AOPC 4, IR Site 3.

(b) ELCR and Hazard Index calculated before removal activities at AOPC 4, IR Site 3.

(c) 99th percentile blood-lead levels were estimated using a pharmacokinetic model (Cal-EPA, 1993).

µg/dL = micrograms per deciliter.

6.2 IR Site 4 Results of the RI HHRA. A HHRA was presented in the RI report and formed the basis of the future recommendations for IR Site 4. The results of the HHRA for IR Site 4 are summarized in Table 6-2 for the industrial worker, maintenance/utility worker, and hypothetical resident. The anticipated future landuse is industrial, but a residential scenario was evaluated for comparative purposes. The results of the risk assessment determined that the COPCs present at IR Site 4 do not present an ELCR for an industrial and/or utility maintenance worker that exceeds the U.S. EPA generally acceptable range of 1×10^{-4} to 1×10^{-6} , and that the hazard index was less than 1 for the industrial worker and utility maintenance worker scenarios. A potentially high degree of risk is associated with residential use of IR Site 4. Lead did not present a significant risk at this site.

Table 6-2. Results from the HHRA at IR Site 4

Estimates of Risk	Industrial Worker	Utility Maintenance Worker	Resident	Risk Drivers
ELCR	4.0×10^{-8}	1.2×10^{-6}	1.2×10^{-3}	Soil – benzo(k)fluoranthene, arsenic, and beryllium
Hazard Index	0.05	0.029	40	
99th percentile blood-lead level ^(a)	4.4 µg/dL	3.9 µg/dL	8.4 µg/dL (child) 4.6 µg/dL (adult)	Groundwater – bromodichloromethane

(a) 99th percentile blood-lead levels were estimated using a pharmacokinetic model (Cal-EPA, 1993).

6.3 IR Site 5 Results of the RI HHRA. Risk assessment results were presented in the Final RI Report for the industrial worker, utility maintenance worker, and hypothetical resident for IR Site 5. The anticipated future landuse is industrial, but a residential scenario was evaluated for comparative purposes. The results of the risk assessment determined that the only COPC (PCE) present at IR Site 5 did not present an ELCR in excess of the U.S. EPA upper boundary (1×10^{-4}) for industrial and/or utility maintenance worker exposure scenarios. The hazard index for the industrial and utility maintenance worker scenarios was less than 1. A potentially high hazard index is associated with residential use of IR Site 5. Lead did not present a significant risk at this site. Table 6-3 summarizes the risks calculated at IR Site 5.

Table 6-3. Results from the HHRA at IR Site 5

Estimates of Risk	Industrial Worker	Utility Maintenance Worker	Resident	Risk Drivers
ELCR	9.2×10^{-6}	1.7×10^{-6}	5.2×10^{-5}	Soil – As, PCBs, and benzo(a)pyrene
Hazard Index	0.20	0.029	3.1	
99th percentile blood-lead level ^(a)	4.5 µg/dL	3.9 µg/dL	8.7 µg/dL (child) 4.7 µg/dL (adult)	Groundwater – cancer risk less than 10^{-7} from COPCs

(a) 99th percentile blood-lead levels were estimated using a pharmacokinetic model (Cal-EPA, 1993).

6.4 IR Site 6A Results of the RI HHRA. Risk assessment results were presented for the industrial worker, utility maintenance, and hypothetical resident for IR Site 6A. The anticipated future landuse is industrial, but a residential scenario was evaluated for comparative purposes. The results of the risk assessment determined that the COPCs present at IR Site 6A did not present an ELCR in excess of the U.S. EPA upper limit of 1×10^{-4} for industrial and/or utility maintenance worker exposure scenarios. Also, the calculated hazard index was less than 1 for both scenarios. A potentially high degree of risk is associated with residential use of IR Site 6A. Lead did not present a significant risk at this site. Table 6-4 summarizes the HHRA performed for IR Site 6A.

Table 6-4. Results from the HHRA at IR Site 6A

Estimates of Risk	Industrial Worker	Utility Maintenance Worker	Resident	Risk Drivers
ELCR	2.5×10^{-6}	1.2×10^{-6}	5.7×10^{-4}	Soil – PCBs, hexavalent chromium, and benzo(a)pyrene
Hazard Index	0.14	0.029	8.2	
99th percentile blood-lead level ^(a)	4.5 µg/dL	3.9 µg/dL	8.6 µg/dL (child) 4.6 µg/dL (adult)	Groundwater – arsenic and benzo(a)pyrene

(a) 99th percentile blood-lead levels were estimated using a pharmacokinetic model (Cal-EPA, 1993).

Section 7: DESCRIPTION OF ALTERNATIVES

Remedial alternatives that preserve the reasonably anticipated future land use, that monitor the site for changes in groundwater flow and contaminant transport, and that meet the site remediation goals were evaluated in the detailed analysis presented in the FS for IR Sites 3, 4, 5, and 6A (Battelle, 1998). The following subsections contain summaries of the remedial alternatives considered.

7.1 Alternative 1: No Further Action (NFA)

Capital Cost: \$0

Annual Operations and Maintenance (O&M) Cost: \$0

Months to Implement: None

The NFA alternative implies that no activities will be implemented to remediate contaminants at the site. The NCP requires that the NFA alternative be evaluated for every site to establish a baseline against which to compare and evaluate other alternatives.

The NFA alternative provides no additional treatment of contaminants or protection of human health and the environment. The NFA alternative does not present immediate risks to human health or the environment beyond cleanup criteria under industrial land use scenarios. However, it also does not ensure continued industrial use of IR Sites 3, 4, 5, and 6A.

7.2 Alternative 2: Institutional Controls (Deed Restrictions)

Capital Cost: \$24,000 (\$6,000 per site includes all four sites)

Annual O&M Cost: \$0

Months to Implement: 3

The HHRA performed in the RI was predicated on IR Sites 3, 4, 5, and 6A remaining as industrial sites. Exposure scenarios used to determine ELCR and hazard indexes for each site were based on industrial exposures to industrial site workers and utility maintenance workers. All calculations performed in the HHRA would have to be re-evaluated in the event of an alternate future land use at any of the sites.

Institutional controls are non-engineering mechanisms and legal measures designed to limit access or activities at a particular property. They may be used as part of an environmental remedy to limit exposure pathways to humans or to the environment from contamination that may be present at a site, or to protect a remedy that is in place. Potential institutional controls will be included in the finding of suitability for lease (FOSL) for the NAVSTA Long Beach.

Deed restrictions are a type of institutional control that could be applied to restrict subsurface excavation or drilling and groundwater use, and to ensure that the sites remain industrial.

Effectiveness. The HHRA in the RI report depends on IR Sites 3, 4, 5, and 6A remaining as industrial sites. Deed restrictions would effectively prevent future land use changes at each site. Deed restrictions are necessary to ensure that the scenarios used in the HHRA to predict human health risk remain valid.

Implementability. Deed restrictions do not require any equipment installation, but do require administrative effort to implement.

Cost. Deed restriction costs are expected to be much lower than active remediation.

7.3 **Alternative 3: Long-Term Groundwater Monitoring**

Capital Cost: \$0

Annual O&M Cost: \$148,000 (\$74,000 per site for IR Sites 3 and 6A)

Months to Implement: 12

Long-term groundwater monitoring is an effective tool for evaluating whether remediation goals are being met. It is useful in monitoring COPC concentrations and plume movements.

A groundwater monitoring network for IR Sites 3 and 6A is already in place, resulting in \$0 for capital costs. Groundwater conditions are evaluated annually under the current monitoring program. At the next annual evaluation, if the COPCs in groundwater are below groundwater screening criteria, the Regional Water Quality Control Board will allow discontinuation of the monitoring program. Experience at other sites at the NAVSTA Long Beach indicates that it is reasonable to assume that one additional year of groundwater monitoring data may be sufficient to demonstrate acceptable conditions. If the monitoring indicates that groundwater concentrations exceed water quality standards in the State Water Resources Control Board's Ocean Plan or the Regional Water Quality Control Board's Water Quality Control Plan, DON will provide a primary document to the state proposing action to prevent the migration of waste to surface waters.

Effectiveness. Groundwater monitoring is an effective method for comparing groundwater contaminant concentrations to applicable groundwater quality criteria.

Implementability. Groundwater monitoring programs use standard technologies and are relatively simple to implement.

Cost. Sampling of existing wells can be performed at relatively low cost. Higher costs would be incurred if additional monitoring wells were required. However, the Groundwater Final Work Plan proposed by BNI likely precludes the need for additional groundwater wells. Groundwater sampling is expected to cost from \$74,000 per site per year for monitoring at IR Sites 3 and 6A.

7.4 **Alternative 4: Combined Approach—Institutional Controls and Long-Term Groundwater Monitoring**

Capital Cost: \$24,000 (\$6,000 per site includes all four sites)

Annual O&M Cost: \$148,000 (\$74,000 per site for IR Sites 3 and 6A)

Months to Implement: 12

Deed restrictions combined with long-term groundwater monitoring will ensure that future site use remains industrial and that remediation goals are being met. Groundwater conditions are evaluated annually under the current monitoring program. At the next annual evaluation, if the COPCs in groundwater are below groundwater screening criteria, the Regional Water Quality Control Board will allow discontinuation of the monitoring program. Experience at other sites at the NAVSTA indicates that it is reasonable to assume that one additional year of groundwater monitoring data may be sufficient to demonstrate acceptable conditions. Potential institutional controls will be included in the FOSL for NAVSTA Long Beach.

Effectiveness. Combining deed restrictions and groundwater monitoring increases overall protection of human health and the environment. Long-term groundwater monitoring at IR Sites 3 and 6A ensures that unexpected potentially damaging plume migration will be detected. Deed restrictions ensure

that existing monitoring wells are not disturbed and that the site conditions used in the risk assessment remain valid.

Implementability. Both deed restrictions and groundwater monitoring are conventional options for managing environmental risks and can be implemented using existing mechanisms.

Cost. The cost for both deed restrictions and groundwater monitoring are incurred when the combined alternative is used. However, the estimated cost is still low compared to active remediation.

Section 8: SUMMARY OF THE COMPARATIVE ANALYSIS OF ALTERNATIVES

The following analysis compares the four remediation alternatives for each of the nine evaluation criteria. It is expected that a combination of the alternatives may provide the most effective method for ensuring compliance with the evaluation criteria. Table 8-1 summarizes the comparative analysis of the alternatives. Because of the similarities between IR sites, the comparative analysis of alternatives presented in the following subsections addresses the four IR sites together. A long-term groundwater-monitoring program is currently in place at the NAVSTA Long Beach, and data have already been collected for one year.

Table 8-1. Remedial Alternative Screening Summary for IR Sites 3, 4, 5, and 6A

Criteria	Remedial Alternatives			
	Alternative 1: NFA	Alternative 2: Institutional Controls	Alternative 3: Long-Term Groundwater Monitoring	Alternative 4: Institutional Controls and Long-Term Groundwater Monitoring
Overall protection of human health and the environment	1	2	2	4
Compliance with ARARs	4	4	4	4
Long-term effectiveness	1	4	4	4
Reduction of toxicity, mobility, or volume	1	1	1	1
Short-term effectiveness	4	4	3	3
Implementability	4	4	4	4
Cost	4	3	3	3
State acceptance	TBD ^(a)	TBD ^(a)	TBD ^(a)	TBD ^(a)
Community acceptance	TBD ^(a)	TBD ^(a)	TBD ^(a)	TBD ^(a)
Total	19	22	21	23

1 = poor, 2 = fair, 3 = good, 4 = very good; High score is favorable.

TBD = to be determined.

(a) = State and community acceptance will be fully addressed during the public comment period.

The nine evaluation criteria developed by the U.S. EPA (1988) for evaluation of remedial action alternatives are as follows:

- Protection of Human Health and the Environment
- Compliance with ARARs
- Long-Term Effectiveness and Permanence
- Reduction of Toxicity, Mobility, or Volume of Contaminants
- Short-Term Effectiveness
- Implementability
- Cost
- State Acceptance
- Community Acceptance

Each alternative has undergone detailed evaluation and analysis using these evaluation criteria.

The nine criteria are categorized into three groups: threshold criteria, primary balancing criteria, and modifying criteria. All threshold criteria must be satisfied in order for an alternative to be eligible for selection. The primary balancing criteria are used to weigh major tradeoffs among alternatives. The modifying criteria usually are taken into account after public comment is received on the Proposed Plan and reviewed with the state regulatory agencies to determine if the preferred alternative remains the most appropriate remedial action. The nine criteria are defined below and are accompanied by the key points from the evaluation of the four alternatives.

8.1 Explanation of Evaluation Criteria

8.1.1 Threshold Criteria

8.1.1.1 Protection of Human Health and the Environment. This criterion assesses whether an alternative provides adequate public health protection and describes how health risks posed by the site will be eliminated, reduced, or controlled through treatment, engineering controls, or institutional and regulatory controls.

8.1.1.2 Compliance with ARARs. Compliance with ARARs addresses whether a selected remedy will meet all related federal and state environmental statutes or requirements. An alternative must comply with ARARs, or be covered by a waiver, to be acceptable.

8.1.2 Primary Balancing Criteria

8.1.2.1 Long-Term Effectiveness and Permanence. This criterion addresses the ability of a remedial alternative to maintain reliable protection of human health and the environment over time, after the remediation goals have been accomplished.

8.1.2.2 Reduction of Toxicity, Mobility, or Volume of Contaminants. This criterion addresses the statutory preference for selecting remedial actions that use treatment technologies that permanently and significantly reduce toxicity, mobility, and/or volume of contaminants.

8.1.2.3 Short-Term Effectiveness. The evaluation of short-term effectiveness addresses how well human health and the environment will be protected from impacts due to construction and implementation phases of a remedial alternative.

8.1.2.4 Implementability. Evaluation of implementability addresses the technical and administrative feasibility of implementing an alternative. It includes evaluation of the availability of technologies, services, and materials required during implementation.

8.1.2.5 Cost. Evaluation of cost addresses the total cost of the remedial action including capital and O&M costs.

8.1.3 Modifying Criteria

8.1.3.1 State Acceptance. Evaluation of this criterion addresses the apparent acceptability of a remedial alternative to California State regulatory personnel.

8.1.3.2 Community Acceptance. Evaluation of this criterion address the apparent acceptability of a remedial alternative by the community.

8.2 Evaluation Criteria and Alternatives

8.2.1 Protection of Human Health and the Environment. All of the evaluated remedial alternatives provide overall protection of human health and the environment under an industrial land use scenario. All of the alternatives meet the requirements of the remediation goals. The industrial exposure risks calculated in the RI report fall within the U.S. EPA generally acceptable range of 1×10^{-4} to 1×10^{-6} . Based on the industrial exposure risks, no COCs or AOCs have been identified for IR Sites 3, 4, 5, and 6A; therefore, any of the remedial alternatives, or a combination of alternatives, would be expected to provide protection of human health and the environment. However, the NFA alternative does not provide any method to ensure that the industrial scenario remains valid.

Deed restrictions can provide protection because the HHRA used in the RI is based on an industrial exposure scenario. In the event that future land use changes, risk scenarios may no longer be valid. Long-term groundwater monitoring can provide protection by allowing the evaluation of actual contaminant concentrations in comparison to concentrations predicted by contaminant modeling performed in the RI. Monitoring will indicate any potential for future contaminant concentrations to exceed levels that threaten human health and the environment and allow identification of appropriate action. Long-term quarterly groundwater monitoring, currently ongoing at IR Sites 3 and 6A, will be continued as needed.

8.2.2 Compliance with ARARs. All of the evaluated remedial alternatives comply with Federal and state ARARs.

8.2.3 Long-Term Effectiveness and Permanence. The NFA alternative provides limited long-term effectiveness because there is no provision for maintaining industrial land use. Properly instituted deed restrictions can effectively limit land use options. Periodic groundwater monitoring will detect changes in site conditions, but requires periodic sampling and analysis of environmental media. None of the alternatives selected will reduce contaminant concentrations or reduce the potential for continued transport of contaminants. However, under the industrial risk scenario, no COCs or AOCs were identified at IR Sites 3, 4, 5, and 6A. Therefore, conventional remedial technologies are not required to minimize potential contaminant exposure.

8.2.4 Reduction of Toxicity, Mobility, or Volume of Contaminants. None of the selected alternatives reduce the toxicity, mobility, or volume of contaminants at IR Sites 3, 4, 5, and 6A. Treatment is not required because the HHRA indicates that residual risks are within acceptable ranges for industrial use scenarios.

8.2.5 Short-Term Effectiveness. All of the evaluated alternatives provide good short-term effectiveness. The NFA and institutional controls alternatives do not require any on-site activities, so there is no potential for worker exposure. The sampling team will potentially be exposed to contaminants in groundwater when the samples are collected, but the exposure time is brief and sampling is infrequent. Conventional personal protective equipment and methods will be applied to maximize worker safety. None of the evaluated alternatives increase the potential for risks to off-site populations during implementation.

8.2.6 Implementability. NFA is the easiest alternative to implement at each site, because it does not require any further action. Deed restrictions could be imposed by existing legal mechanisms. Long-term groundwater monitoring is currently ongoing at the NAVSTA.

8.2.7 Cost. There would be no additional costs associated with NFA. Deed restriction costs would be small. Long-term monitoring costs would be moderate, depending on the period of time needed to evaluate contaminant modeling performed in the RI.

8.2.8 State Acceptance. The state acceptance criterion requires the responsible party (the DON) to address the state's comments and concerns for each remedial alternative. The state's acceptance may not be completed until public comments from the RI/FS and Proposed Plan are resolved. Furthermore the state, as the lead Regulatory Agency, must concur with the preferred remedy presented in the FS. The acceptance of this process option was fully addressed by this ROD following the public comment period. The California RWQCB, Los Angeles Region and State of California Department of Toxic Substances Control (DTSC) concur with the recommendations of this ROD FS at IR Sites 3-6A.

8.2.9 Community Acceptance. The community acceptance of the preferred remedial alternatives is fully addressed by this ROD following the public comment period.

Section 9: THE SELECTED REMEDY

A FS was performed using the available information on IR Sites 3, 4, 5, and 6A in order to establish remediation goals and to evaluate the most appropriate and effective remedial alternatives (Battelle, 1998). This section summarizes the available information on these sites, as found in the FS report. The most appropriate and effective remedial alternatives were determined based on a review of the ARARs (see Section 11 and Appendix B) and the ability to meet remediation goals. As required by CERCLA and the NCP, the remedial alternatives were developed and screened based on effectiveness, implementability and cost. Based on the results of the initial screening, remedial alternatives undergo a detailed analysis using the nine criteria described in Section 8. The final remediation goals for IR Sites 3, 4, 5, and 6A are as follows:

Groundwater

- Monitor groundwater that may migrate towards marine ecosystems by evaluating groundwater chemical concentrations with respect to California Ocean Plan criteria (SWRCB, 1995).
- Maintain industrial and utility maintenance worker exposure scenarios defined in the RI Report, thereby preventing human exposure to groundwater containing carcinogens that result in an ELCR greater than 1.0×10^{-4} .
- Maintain industrial and utility maintenance worker exposure scenarios defined in the RI Report, thereby preventing human exposure to groundwater containing chemical concentrations that result in a chronic toxicity hazard index greater than 1.

Surface and Subsurface Soil

- Maintain industrial and utility maintenance worker exposure scenarios defined in the RI Report, thereby preventing human exposure to soil containing carcinogens that result in an ELCR greater than 1.0×10^{-4} .
- Maintain industrial and utility maintenance worker exposure scenarios defined in the RI Report, thereby preventing human exposure to groundwater containing chemical concentrations that result in a chronic toxicity hazard index greater than 1.

Based on the comparative analyses of the remedial action alternatives completed in Section 8, the most favorable remedial action for each site is described below.

9.1 IR Sites 3 and 6A: Selected Alternatives—Institutional Controls and Long-Term Groundwater Monitoring. A combination of alternatives appears to offer the best balance of performance for IR Sites 3 and 6A. Because the RI report determined that there are no COCs or AOCs for either site, and industrial risk calculated by the HHRA falls within the U.S. EPA generally acceptable range of 1×10^{-4} to 1×10^{-6} , active remediation technologies are not warranted for IR Sites 3 and 6A. The following paragraphs briefly describe the rationale for selecting deed restrictions and long-term groundwater monitoring.

Institutional controls are selected as a method to prevent changes in future land use that may increase exposure risks at IR Sites 3, 4, and 6A. Potential institutional controls will be included in the FOSL for the NAVSTA Long Beach. Deed restrictions will be implemented using existing legal

procedures and will ensure that land usage at the sites remains industrial. The institutional controls for IR Sites 3 and 6A set forth below are consistent with the Reuse Plan of the LRA (City of Long Beach, 1995). In addition, they are also consistent with other potential future industrial or commercial uses for IR Sites 3 and 6A.

The DON anticipates that the primary legal mechanism used to implement institutional control measures will be either lease conditions, if the property is leased; or restrictive covenants, if the property is transferred by deed. The institutional control measures identified below fall into two broad categories: (1) restrictions on future land use; and (2) provision for access for potential future monitoring and maintenance activities by the DON and oversight by the state if the DON conducts the monitoring and maintenance activities, or provision for access by the DON and the state, if the transferee performs monitoring and maintenance activities under the terms and conditions of the lease or deed covenants.

The following institutional controls will be applied at IR Sites 3 and 6A:

- Residential use shall be prohibited.
- Site operations shall be restricted to industrial/commercial uses consistent with the California Coastal Act and the Certified Port Master Plan for Los Angeles and Long Beach Harbor Districts.
- Industrial use shall not include child-care centers, playgrounds, or other areas frequented by children.
- Removal and disposal of contaminated soil or groundwater shall be conducted in accordance with all applicable Federal, state, and local regulations governing removal, transport, and disposal.
- Construction and/or operations on the property shall not interfere with ongoing monitoring or assessment work being conducted by or for Federal, state, or local regulatory agencies, unless specifically approved by the appropriate lead agency.

Institutional controls will provide that when property is transferred by deed: the deed will include a requirement that the deed restrictions shall be recorded with the deed, shall indicate that the environmental restrictions run with the land, as required by state law, and shall require state concurrence prior to removal of the deed restrictions. In addition, the DON will provide a draft of the deed to appropriate regulatory agencies prior to transfer by deed, as required by CERCLA, Section 120(h)(3).

The current quarterly groundwater monitoring is necessary to ensure that groundwater contaminants at concentrations in excess of California Ocean Plan criteria do not migrate to marine ecosystems. Table 9-1 summarizes the available California Ocean Plan numerical requirements. If an exceedance occurs, it will be reported to the appropriate regulatory agencies (i.e., the U.S. EPA, the DTSC, and the RWQCB). If the monitoring indicates that groundwater concentrations exceed water quality standards in the State Water Resources Control Board's Ocean Plan or the Regional Water Quality Control Board's Water Quality Control Plan, DON will provide a primary document to the state proposing action to prevent the migration of waste to surface waters.

9.2 IR Sites 4 and 5: Selected Alternative—Institutional Controls. Deed restriction appears to offer the best balance of performance for IR Sites 4 and 5. Because the RI report determined that there are no COCs or AOCs for the sites, and industrial risk calculated by the HHRA falls within the U.S. EPA generally acceptable range of 1×10^{-4} to 1×10^{-6} , active remediation technologies are not warranted for IR Sites 4 and 5. The following paragraph briefly describes the rationale for selecting deed restriction.

Table 9-1. COPCs for Groundwater at Sites 3 and 6A and California Ocean Plan Water Quality Objectives (SWRCB, 1995)

Chemical	Site	California Ocean Plan Numerical Standard (µg/L)
Benzene	3, 6A	5.9
Chlorobenzene	3	570
1,2-DCA	3	130
1,2-DCE	3	55 ^(a)
1,2-DCP	3	5 ^(b)
PCE	3, 6A	99
TCE	3, 6A	27
VC	3, 6A	36
Chloroform	3, 6A	130
Chloromethane	3	1.5 ^(c)
1,4-DCB	3, 6A	18
Antimony	3	1,200
Arsenic	6A	50 ^(d)

- (a) PRG for 1,2-DCE as a mixture of *cis*- and *trans*-1,2-DCE was used for comparison, California Ocean Plan Standard not available.
- (b) MCL for 1,2-DCP, California Ocean Plan Standard not available.
- (c) PRG for chloromethane, California Ocean Plan Standard not available.
- (d) MCL for arsenic, California Ocean Plan Standard not available.

Deed restriction is recommended because it is effective in preventing changes in future land use that may increase exposure risks at IR Sites 4 and 5. Deed restriction ensures overall protection of human health and the environment. Because industrial risk at IR Sites 4 and 5 is very near the U.S. EPA departure point, a point considered unconditionally acceptable, groundwater monitoring is not warranted. The institutional controls for IR Sites 4 and 5 set forth below are consistent with the Community Reuse Plan. In addition, they are also consistent with other potential future industrial or commercial uses for IR Sites 4 and 5.

The DON anticipates that the primary legal mechanism used to implement institutional control measures will be either lease conditions, if the property is leased, or restrictive covenants, if the property is transferred by deed. The institutional control measures identified below fall into two broad categories: (1) restrictions on future land use; and (2) provision for access for potential future monitoring and maintenance activities by the DON and oversight by the state, if the DON conducts the monitoring and maintenance activities, or provision for access by the DON and the state, if the transferee performs monitoring and maintenance activities under the terms and conditions of the lease or deed covenants.

The following institutional controls will be applied at IR Sites 4 and 5:

- Residential use shall be prohibited.
- Site operations shall be restricted to industrial/commercial uses consistent with the California Coastal Act and the Certified Port Master Plan for Los Angeles and Long Beach Harbor Districts.
- Industrial use shall not include child-care centers, playgrounds, or other areas frequented by children.

- Removal and disposal of contaminated soil or groundwater shall be conducted in accordance with all applicable Federal, state, and local regulations governing removal, transport, and disposal.
- Construction and/or operations on the property shall not interfere with ongoing monitoring or assessment work being conducted by or for Federal, state, or local regulatory agencies, unless specifically approved by the appropriate lead agency.

Institutional controls will provide that when property is transferred by deed: the deed will include a requirement that the deed restrictions shall be recorded with the deed, shall indicate that the environmental restrictions run with the land, as required by state law, and shall require state concurrence prior to removal of the deed restrictions. In addition, the DON will provide a draft of the deed to appropriate regulatory agencies prior to transfer by deed, as required by CERCLA, Section 120(h)(3).

Section 10: REMEDIAL ACTION PLAN REQUIREMENTS

State of California DTSC Remedial Action Plan (RAP) requirements are provided in Table 10-1. The DTSC has concurred that the referenced sections of the RI and FS satisfy the RAP requirements. Any revised or additional RAP requirements will be provided and administered by DTSC.

The California Health and Safety Code (H&SC), Section 25356.1 RAP requirements have been incorporated into the ROD to fulfill state requirements. A copy of the California H&SC Section 25356.1 has been included in the ROD as Appendix A.

Table 10-1. RAP Requirements

RAP Requirement	Reference Location
Health and safety risks posed by the conditions at the site. When considering these risks, DTSC or the regional board shall consider scientific data and reports which may have a relationship to the site.	Final Remedial Investigation Report Installation Restoration Program for Sites 1 through 6A Naval Station Long Beach, Long Beach California, 1996 (RI) Chapter 5; Appendices R2, R3, and U.
The effect of contamination or pollution levels upon present, future, and probable beneficial uses of contaminated, polluted, or threatened resources.	RI Chapter 5; Appendices R2, R3, and U
The effect of alternative remedial action measures on the reasonable availability of groundwater resources of present, future, and probably beneficial uses.	Final Feasibility Study for Installation Restoration Sites 3, 4, 5, and 6A Naval Station Long Beach, Long Beach, California, 1998 (FS) Sections 4 and 5.
Site-specific characteristics, including the potential for off-site migration of hazardous substances, the surface soil, and the hydrogeologic conditions, as well as preexisting background contamination levels.	RI Chapters 3 and 4; Appendices H1, H2, P1, P2, P3 and U.
Cost-effectiveness of alternative remedial action measures.	FS Sections 6 and 7.
The potential environmental impacts of alternative remedial action measures, including, but not limited to, land disposal of the untreated hazardous substances as opposed to treatment of the hazardous substances to remove or reduce its volume, toxicity, or mobility prior to disposal.	FS Sections 6 and 7.

Section 11: THE STATUTORY DETERMINATIONS

11.1 Protection of Human Health and the Environment. The selected alternatives provide protection of human health and the environment under an industrial land use scenario. The alternatives meet the requirements of the remediation goals. The industrial exposure risks calculated in the RI fall within the U.S. EPA generally acceptable range. Based on the industrial exposure risks, no COCs or AOCs were identified for IR Sites 3, 4, 5, and 6A. Therefore, active remediation of contaminants is not required to provide protection of human health and the environment.

Deed restrictions provide protection because the HHRA used in the RI is based on an industrial exposure scenario. In the event that future land use changes, risk scenarios may no longer be valid. Long-term groundwater monitoring provides protection by allowing the evaluation of actual contaminant concentrations in comparison to concentrations predicted by contaminant modeling performed in the RI. Monitoring also can indicate the potential for future contaminant concentrations to exceed levels that threaten human health and the environment and allow identification of appropriate actions.

11.2 Compliance with ARARs. The selected remedial alternative complies with federal and state ARARs. The federal and state chemical-specific, location-specific, and action-specific ARARs are discussed in the following subsections and are presented in Appendix B. There are no ARARs that require particular remedial technologies at Sites 3, 4, 5, or 6A, and no active remediation technologies are being implemented at the sites.

11.2.1 ARARs Overview. Potential ARARs developed from a variety of Federal and state sources by the DON were reviewed in the FS for application to IR Sites 3, 4, 5, and 6A. A detailed evaluation of potential ARARs was performed. The following sections provide an overview of the ARARs process and a summary of those ARARs that were determined to affect the achievement of remediation goals at IR Sites 3, 4, 5, and 6A.

Identification of ARARs is a site-specific determination and involves a two-part analysis: first, a determination of whether a given requirement is applicable; then, if it is not applicable, whether it is relevant and appropriate. A requirement is deemed applicable if the specific terms of the law or regulation directly address the COC, remedial action, or place involved at the site. If the jurisdictional prerequisites of the law or regulation are not met, a legal requirement may, nonetheless, be relevant and appropriate if the site's circumstances are sufficiently similar to circumstances in which the law otherwise applies, and if it is well suited to the conditions of the site.

A requirement must be substantive in order to constitute an ARAR for activities conducted onsite. Procedural or administrative requirements, such as permits and reporting requirements, are not ARARs.

In addition to ARARs, the NCP provides that, where ARARs do not exist, agency advisories, criteria, or guidance are "to-be-considered" (TBC) "in helping to determine what is protective at a site or how to carry out certain actions or requirements" (55 Federal Register 8745). The NCP preamble states, however, that the provisions in the TBC category "should not be required as cleanup standards because they are, by definition, generally neither promulgated nor enforceable, so they do not have the same status under CERCLA as do ARARs."

As the lead Federal agency, the DON has the primary responsibility for the identification of Federal ARARs at IR Sites 3, 4, 5, and 6A at the LBNC. As the lead state agency, the DTSC has the responsibility for identifying state ARARs.

ARARs and TBCs are generally divided into three categories: chemical-specific, location-specific, and action-specific requirements. Six tables listing all of the ARARs deemed pertinent for this ROD are found in Appendix B.

Chemical-specific ARARs are numeric values that represent health-based or risk-based standards that are modified to consider the economic and technical feasibility of implementation. MCLs are examples of chemical-specific ARARs.

Location-specific ARARs govern activities to protect resources at the location. Examples of location-specific ARARs include regulations that protect floodplains, wetlands, endangered species habitat, and archaeologically or historically significant resources.

Action-specific ARARs are technology- or activity-based requirements or restrictions. Examples of action-specific ARARs include monitoring requirements, effluent discharge limits, hazardous waste manifesting requirements, and occupational health and safety standards.

11.2.2 Federal ARARs

11.2.2.1 Federal Chemical-Specific ARARs. Based on the evaluation presented in the FS for IR Sites 3, 4, 5, and 6A, the substantive provisions of the following requirements have been identified as federal chemical-specific ARARs for this ROD:

- Title 22 CCR, Sections 66261.21, 66261.22(a)(1), 66261.23, 66261.24(a)(1), and 66261.100 – Determination of RCRA hazardous waste; Toxicity Characteristic Leaching Procedure (TCLP) regulatory levels
- 40 CFR 761.6 (excluded sections outlined in Appendix B [Table B-1]) – Regulates use and manufacture of toxic substances and storage and disposal of PCBs.

Under RCRA Title 22 CCR, Sections 66261.21, 66261.22(a)(1), 66261.23, 66261.24(a)(1), and 66261.100, the TCLP regulatory levels, the persistent and bioaccumulative toxic substances TTLCs and soluble threshold limit concentrations (STLCs) are applicable in identifying hazardous waste. These definitions will be applicable to both soils (i.e., drill cuttings) and water (purge water). As noted above, the actions selected in this ROD are not expected to generate hazardous waste. However, drill cuttings and purge water will be tested to determine if these media generated as a result of groundwater monitoring meet the criteria for characteristic hazardous waste. If they do meet the criteria, they will be handled as hazardous waste and disposed of in an appropriate manner.

The Toxic Substances Control Act (TSCA), 40 CFR 761.6 (excluded sections outlined in Appendix B [Table B-1]) regulates handling of wastes including oils, debris, sludge, or dredged materials contaminated with PCBs at concentrations greater than 50 parts per million (ppm). The regulations are applicable for wastes contaminated at greater than 50 ppm PCBs. Because PCBs were detected in surface soils at IR Sites 3, 5, and 6A at concentrations well below 50 ppm, the regulations are relevant and appropriate but would not be applicable.

11.2.2.2 Federal Location-Specific ARARs. Location-specific requirements include those that involve restrictions on how remedial activities are to be conducted in particular locations. Based on the evaluation presented in the FS for IR Sites 3, 4, 5, and 6A, the substantive provisions of the following requirements have been identified as federal location-specific ARARs for this ROD:

- Executive Order 11988, Protection of Floodplains
- Coastal Zone Management Act
- Migratory Bird Treaty Act of 1972
- Marine Mammal Protection Act.

Most of the location-specific ARARs are related to the coastal location of the sites. Executive Order 11988, Protection of Floodplains, requires that actions taken by the federal government avoid adverse effects, minimize potential harm, and restore and preserve natural and beneficial values of floodplains. Flooding from Los Angeles River and Dominguez Canal is not a major threat to LBNC, and FEMA maps show Terminal Island is not within an area considered susceptible to flooding during a statistical 100- or 500-yr flood (BNI, 1996). However, due to its proximity to the ocean, the area may be subject to storm surge.

Because the sites are located along the coast, the Coastal Zone Management Act is considered an ARAR. This act requires that activities be conducted in a manner consistent with approved state management programs.

The Migratory Bird Treaty Act of 1972 protects almost all species of native birds in the U.S. from unregulated “take,” (i.e., pursuing, hunting, shooting, wounding, killing, trapping, capturing, or collecting) which can include poisoning at hazardous waste sites. Because migratory birds could be present at the site, this regulation is considered applicable.

The Marine Mammal Protection Act protects any marine mammal in the U.S., except as provided by international treaties, from unregulated “take.” Because the sites are along the coast and because groundwater could potentially migrate to the ocean, this act is considered applicable.

11.2.2.3 Federal Action-Specific ARARs. These requirements apply to the ongoing detection groundwater monitoring program at the sites. Based on the evaluation presented in the FS for IR Sites 3, 4, 5, and 6A, the substantive provisions of the following requirements have been identified as the federal action-specific ARARs for this ROD:

- Title 22 CCR, Sections 66264.91(c)(2), 66264.94, 66264.96, and 66264.97 – Water Quality Monitoring Program.

Most action-specific ARARs are related to handling RCRA hazardous waste. For this ROD, it is assumed that no RCRA waste will be generated as part of the remedial actions. Thus, the regulations applicable to generating and handling hazardous waste are not considered ARARs. However, as noted previously, if the purge water and drill cuttings are tested and found to be RCRA waste, these materials will be managed appropriately and handled in accordance with all applicable regulations.

11.2.3 State ARARs

11.2.3.1 State Chemical-Specific ARARs. Based on the evaluation presented in the FS for IR Sites 3, 4, 5, and 6A, the substantive provisions of the following requirement was identified as the only state chemical-specific ARARs for this ROD:

- 22 CCR 66261.22(a)(3) and (4), 66261.24(a)(2) to (a)(8), 66261.101, 66261.3(a)(2)(C), or 66261.3(a)(2)(F)

The only state chemical-specific ARAR is the Cal-EPA DTSC's definition of "non-RCRA hazardous waste." Similar to the case for RCRA wastes, the remedial actions in this ROD are not likely to generate non-RCRA hazardous waste; however, the drill cuttings and purge water will be analyzed and, if they are determined to meet the characteristics for non-RCRA California hazardous waste, they will be handled appropriately.

No other state chemical-specific ARARs were identified.

11.2.3.2 State Location-Specific ARARs. Based on the evaluation presented in the FS for IR Sites 3, 4, 5, and 6A, the substantive provisions of the following requirement was identified as the only state location-specific ARAR for this ROD:

- California Coastal Act of 1976

The only location-specific ARAR identified is the California Coastal Act of 1976. The act regulates activities associated with development to control direct significant impacts on coastal waters and to protect state and national interests in California coastal resources. This regulation is applicable because the sites are within the coastal zone.

11.2.3.3 State Action-Specific ARARs. Based on the evaluation presented in the FS for IR Sites 3, 4, 5, and 6A, the substantive provisions of the following requirements was identified as the only state action-specific ARARs for this ROD:

- State Water Resources Control Board, Water Code Section 13170.2—Water Quality Control Plan for Ocean Water of California
- California Department of Fish and Game Code, Chapter 2, 5650(a), (b), and (f)
- State Water Resources Control Board, Water Code Section 1243.

The Water Quality Control Plan for Ocean Waters of California is applicable to IR Sites 3, 4, 5, and 6A because groundwater at the sites migrates naturally to the ocean. The California Ocean Plan (SWRCB, 1995) establishes beneficial uses of ocean waters, numerical and narrative water quality objectives, effluent quality objectives including toxic material limitations, and discharge prohibitions. These water quality objectives apply to groundwater at Sites 3, 4, 5, and 6A at the point where it enters the ocean.

The California Department of Fish and Game Code prohibits water pollution with any substance or material deleterious to fish, plant life, or bird life. It applies to any listed or deleterious substances deposited in, permitted to pass into, or placed where they could pass into waters of the state. This regulation is applicable because groundwater migrates naturally to the ocean.

Finally, the SWRCB in Section 1243 of the Water Code defines use of water for recreation and preservation and enhancement of fish and wildlife resources as a beneficial use of water. It also includes policy on appropriation of water. Because groundwater migrates to the ocean, this provision is applicable.

11.3 Cost-Effectiveness. Deed restriction costs are expected to be small. Long-term monitoring costs will be moderate depending on the period of time necessary to evaluate contaminant modeling

performed in the RI. Long-term monitoring would have much lower costs than those incurred by active remediation technologies, which do not appear to be warranted at the sites.

11.4 Use of Permanent Solutions and Alternative Treatment or Resource Recovery Technologies to the Maximum Extent Practicable. The selected remedial action components utilize permanent and effective solutions and alternative treatment technologies to the maximum extent practicable and provide the best balance among the nine evaluation criteria. Because the RI determined that there are no COCs or AOCs for any of the sites, and because industrial risk calculated by the HHRA falls within the U.S. EPA generally acceptable range, active remediation technologies are not warranted.

A comparison of the remedial alternatives is presented in Section 8 of this ROD. Table 8-1 displays a ranking system that assigns a score to each remedial alternative's ability to fulfill the screening criteria. Tradeoffs between the remedial alternatives can be drawn from Table 8-1.

11.5 Preference for Treatment as a Principal Element. See Section 11.4.

Section 12: DOCUMENTATION OF SIGNIFICANT CHANGES

There are no significant changes made to the remedial approach as a result of public comments.

Section 13: THE RESPONSIVENESS SUMMARY

This section provides the DON decision makers with information about community preferences about both the remedial alternatives and general concerns about the site. It also demonstrates to members of the public that their comments were an integral part of the decision making process.

13.1 Overview and Background on Community Involvement. The proposed plan for IR Sites 3, 4, 5, and 6A was made available to the public on May 8, 1998, thereby initiating the public comment period. A public meeting was held on May 27, 1998. The comment period was extended and ran from May 8, 1998 to July 8, 1998. Copies of newspaper notices extending the duration of the public comment period and the location and time of the meeting are included in Appendix C. A transcript of the public meeting and attendance roster are also included in Appendix C.

The purpose of the Proposed Plan and public meeting was to provide the public with a concise summary of the preferred remedial alternative and the basis for that selection. In addition to a summary, the Proposed Plan provided a comment form, location of the administrative record (an alternate source of project documentation available to the public), and technical and regulatory contacts. A copy of the administrative record file index is included as Appendix D.

13.2 Summary of Public Comments and Responses. Comments were received from two members of the public. Their comments and Navy responses are included in Appendix E. In general, the comments identify concerns that contaminants will remain on site and that the preferred remedial alternative, deed restrictions, is not protective.

The key response elements are that the risks posed by the remaining contaminants are within the U.S. EPA acceptable range of 1×10^{-4} to 1×10^{-6} for industrial land use scenarios. In addition, industrial reuse of the site was identified as the preferred future site use by the Local Redevelopment Authority, which included input from members of the community. Deed restrictions are a legal means to ensure that the intended land use continues and that site activities will not increase risk to on-site workers and the surrounding population and environment.

Section 14: REFERENCES

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U.S. DON, see United States Department of the Navy.

U.S. EPA, see United States Environmental Protection Agency.

APPENDIX A
CALIFORNIA H&SC, SECTION 25356.1

hazardous substance, as necessary, except for samples required to be kept for evidentiary purposes.

(b) Notwithstanding any other provision of law, for any hazardous substance that is an illegal controlled substance, a precursor of a controlled substance, or a material intended to be used in the unlawful manufacture of controlled substances, upon notice that the hazardous substance requires a removal action, the department shall take removal action with respect to that hazardous substance, utilizing funds, to the extent available, from the reserve account for emergencies established pursuant to Section 25354 or transferred from the Hazardous Waste Control Account to the Hazardous Substance Account, until December 31, 1995. On and after January 1, 1996, the department may expend funds appropriated from the Illegal Drug Lab Cleanup Account created pursuant to subdivision (e) to pay the costs of removal actions required by this section.

(c) (1) For purposes of Chapter 6.5 (commencing with Section 25100) or this chapter, any person who is found to have operated a site for the purpose of manufacturing an illegal controlled substance or a precursor of an illegal controlled substance is the generator of any hazardous substance at, or released from, the site that is subject to removal action pursuant to this section.

(2) During the removal action, for purposes of complying with the manifest requirements in Section 25160, the department, the county health department, or their designee may sign the hazardous waste manifest as the generator of the hazardous waste. In carrying out that action, the department, the county health department, or their designee shall be considered to have acted in furtherance of their statutory responsibilities to protect the public health and safety and the environment from the release of hazardous substances, and the department, the county health department, or their designee are not responsible parties for the release or threatened release of the hazardous substances.

(3) The officer, investigator, or agency employee specified in subdivision (a) is not a responsible party for the release or threatened release of any hazardous substances at, or released from, the site.

(d) The department may adopt regulations to implement this section in consultation with appropriate law enforcement agencies.

(e) The Illegal Drug Lab Cleanup Account is hereby created in the General Fund and the department may expend any money in the account, upon appropriation by the Legislature, to carry out the removal actions required by this section.

(f) The responsibilities assigned to the department by the act adding this subdivision apply only to the extent that sufficient funding is made available for that purpose.

(Amended by Stats. 1994, 1st Ex. Sess., Ch. 55, Sec. 1. Effective November 30, 1994. Repealed as of July 1, 1998, pursuant to Section 25395.)

25355. (a) The Governor shall be responsible for the coordination of all state response actions for sites identified in Section 25356 in order to assure the maximum use of available federal funds.

(b) The director may initiate removal or remedial action pursuant to this chapter unless these actions have been taken, or are being taken properly and in a timely fashion, by any responsible party.

(c) At least 30 days before initiating removal or remedial actions, the department shall make a reasonable effort to notify the persons identified by the department as potentially responsible parties and shall also publish a notification of this action in a newspaper of general circulation pursuant to the method specified in Section 6061 of the Government Code. This subdivision does not apply to actions taken pursuant to subdivision (b) of Section 25358.3 or immediate corrective actions taken pursuant to Section 25354. A responsible party may be held liable pursuant to this chapter whether or not the person was given the notice specified in this subdivision.

(d) The department shall notify the owner of the real property of the site of a hazardous substance release within 30 days after listing a site pursuant to Section 25356, and at least 30 days before initiating a removal or remedial action pursuant to this chapter, by sending the notification by certified mail to the person to whom the real property is assessed, as shown upon the last equalized assessment roll of the county, at the address shown on the assessment roll. The requirements of this subdivision do not apply to actions taken pursuant to subdivision (b) of Section 25358.3 or to immediate corrective actions taken pursuant to Section 25354.

(Amended by Stats. 1987, Ch. 434, Sec. 1. Repealed as of July 1, 1998, pursuant to Section 25395.)

25355.5. (a) Except as provided in subdivisions (b), (c), and (d), no money shall be expended from the Hazardous Substance Account or the Hazardous Substance Cleanup Fund for removal or remedial actions on any site selected for inclusion on the list established pursuant to Section 25356, unless the department first takes both of the following actions:

(1) The department issues one of the following orders or enters into the following agreement:

(A) The department issues an order specifying a schedule for compliance or correction pursuant to Section 25187.

(B) The department issues an order establishing a schedule for removing or remedying the release of a hazardous substance at the site, or for correcting the conditions that threaten the release of a hazardous substance. The order shall include, but is not limited to, requiring specific dates by which necessary corrective actions shall be taken to remove the threat of a release, or dates by which the nature and extent of a release shall be determined and the site adequately characterized, a remedial action plan shall be prepared, the remedial action plan shall be submitted to the department for approval, and a removal or remedial action shall be completed.

(C) The department enters into an enforceable agreement with a potentially responsible party for the site which requires the party to take necessary corrective action to remove the threat of the release, or to determine the nature and extent of the release and adequately characterize

the site, prepare a remedial action plan, and complete the necessary removal or remedial actions, as required in the approved remedial action plan.

Any enforceable agreement entered into pursuant to this section may provide for the execution and recording of a written instrument which imposes an easement, covenant, restriction, or servitude, or combination thereof, as appropriate, upon the present and future uses of the site. The instrument shall provide that the easement, covenant, restriction, or servitude, or combination thereof, as appropriate, is subject to the variance or removal procedures specified in Sections 25233 and 25234. Notwithstanding any other provision of law, an easement, covenant, restriction, or servitude, or any combination thereof, as appropriate, executed pursuant to this section and recorded so as to provide constructive notice runs with the land from the date of recordation, is binding upon all of the owners of the land, their heirs, successors, and assignees, and the agents, employees, or lessees of the owners, heirs, successors, and assignees, and is enforceable by the department pursuant to Article 8 (commencing with Section 25180) of Chapter 6.5.

(2) The department determines, in writing, that the potentially responsible party or parties for the hazardous substance release site have not complied with all of the terms of an order issued pursuant to subparagraph (A) or (B) of paragraph (1) or an agreement entered into pursuant to subparagraph (C) of paragraph (1). Before the department determines that a potentially responsible party is not in compliance with the order or agreement, the department shall give the potentially responsible party written notice of the proposed determination and an opportunity to correct the noncompliance or show why the order should be modified. After the department has made the final determination that a potentially responsible party is not in compliance with the order or agreement, the department may expend money from the Hazardous Substance Account or the Hazardous Substance Cleanup Fund for a removal or remedial action.

(b) Subdivision (a) does not apply, and money from the Hazardous Substance Account or the Hazardous Substance Cleanup Fund shall be available, upon appropriation by the Legislature, for removal or remedial actions, if any of the following conditions apply:

(1) The department, after a reasonable effort, is unable to identify a potential responsible party for the hazardous substance release site.

(2) The department determines that immediate corrective action is necessary, as provided in Section 25354.

(3) The director determines that removal or remedial action at a site is necessary because there may be an imminent and substantial endangerment to the public health or welfare or to the environment.

(c) Notwithstanding subdivision (a), the department may expend funds, upon appropriation by the Legislature, from the Hazardous Substance Cleanup Fund or the Hazardous Substance Account to conduct activities necessary to verify that an uncontrolled release of hazardous substances has occurred at a suspected hazardous substance release site, to issue an order or enter into an enforceable

agreement pursuant to paragraph (1) of subdivision (a), and to review, comment upon, and approve or disapprove remedial action plans submitted by potentially responsible parties subject to the orders or the enforceable agreement.

(d) Notwithstanding subdivision (a), the department may expend funds, upon appropriation by the Legislature, from the Hazardous Substance Cleanup Fund or the Hazardous Substance Account, to provide for oversight of removal and remedial actions, or, if the site is also listed on the federal act (42 U.S.C. Sec. 9604(c)(3)), to provide the state's share of a removal or remedial action.

(e) A responsible party who fails, as determined by the department in writing, to comply with an order issued pursuant to subparagraph (A) or (B) of paragraph (1) of subdivision (a), or to comply with all of the terms of an enforceable agreement entered into pursuant to subparagraph (C) of paragraph (1) of subdivision (a), shall be deemed, for purposes of subdivision (b) of Section 25355, to have failed to take action properly and in a timely fashion with respect to a hazardous substance release or a threatened release.

(Amended by Stats. 1989, Ch. 906, Sec. 13. Repealed as of July 1, 1998, pursuant to Section 25395.)

25355.6. (a) The State Water Resources Control Board or a California regional water quality control board which has jurisdiction over a hazardous substance release site pursuant to Division 7 (commencing with Section 13000) of the Water Code may refer the site to the department as a candidate for listing pursuant to Section 25356. After determining that the site meets the criteria adopted pursuant to subdivision (a) of Section 25356, the department may place the site on the list of sites subject to this chapter and establish its priority ranking pursuant to Section 25356.

(b) If a hazardous substance release site is referred to the department and is listed pursuant to subdivision (a), the department may expend money from the state account or the Hazardous Substance Cleanup Fund for removal or remedial action at the site, upon appropriation by the Legislature, without first issuing an order or entering into an agreement pursuant to paragraph (1) of subdivision (a) of Section 25355.5, if all of the following apply:

(1) The State Water Resources Control Board or a California regional water quality control board has issued either a cease and desist order pursuant to Section 13301 of the Water Code or a cleanup and abatement order pursuant to Section 13304 of the Water Code to the potentially responsible party for the site.

(2) The State Water Resources Control Board or the California regional water quality control board has made a final finding that the potentially responsible party has not complied with the order issued pursuant to paragraph (1).

(3) The State Water Resources Control Board or the California regional water quality control board has notified the potentially responsible party of the determination made pursuant to paragraph (2) and that the hazardous substance release site has been referred to the department pursuant to subdivision (a).

(c) If a hazardous substance release site is referred to the department pursuant to subdivision (a), and the

department makes either of the following determinations, the department shall notify the appropriate California regional water quality control board and the State Water Resources Control Board:

(1) The department determines that the site does not meet the criteria established pursuant to subdivision (a) and the site cannot be placed, pursuant to Section 25356, on the list of sites subject to this chapter.

(2) The department determines that a removal or remedial action at the site will not commence for a period of one year from the date of listing due to a lack of funds or the low priority of the site.

(d) If a California regional water resources control board or the State Water Resources Control Board receives a notice pursuant to subdivision (c), the regional board or state board may take any further action concerning the hazardous substance release site which the regional board or state board determines to be necessary or feasible, and which is authorized by this chapter or Division 7 (commencing with Section 13000) of the Water Code.

(Added by Stats. 1989, Ch. 871, Sec. 1. Repealed as of July 1, 1998, pursuant to Section 25395.)

25355.7. (a) The department and the State Water Resources Control Board concurrently shall establish policies and procedures consistent with this chapter that the department's representatives shall follow in overseeing and supervising the activities of responsible parties who are carrying out the investigation of, and taking removal or remedial actions at, hazardous substance release sites. The policies and procedures shall be consistent with the policies and procedures established pursuant to Section 13307 of the Water Code, and shall include, but are not limited to, all of the following:

(1) The procedures the department will follow in making decisions as to when a potentially responsible party may be required to undertake an investigation to determine if a hazardous substance release has occurred.

(2) Policies for carrying out a phased, step-by-step investigation to determine the nature and extent of possible soil and groundwater contamination at a site.

(3) Procedures for identifying and utilizing the most cost-effective methods for detecting contamination and carrying out removal or remedial actions.

(4) Policies for determining reasonable schedules for investigation and removal or remedial action at a site. The policies shall recognize the dangers to public health and the environment posed by a release and the need to mitigate those dangers, while taking into account, to the extent possible, the financial and technical resources available to a responsible party.

(b) The department and the State Water Resources Control Board jointly shall review the policies and procedures that were established pursuant to this section and Section 13307 of the Water Code prior to the enactment of this subdivision, and concurrently shall revise policies and procedures as necessary to make them as consistent as possible by selecting, from those inconsistent procedures or policies, the policies or procedures that are most protective of the environment. Where they cannot be made consistent

because of the differing requirements of this chapter and Division 7 (commencing with Section 13000) of the Water Code, the department and the State Water Resources Control Board shall, by July 1, 1994, jointly develop, and send to the Legislature, recommendations for revising this chapter and Division 7 (commencing with Section 13000) of the Water Code to make consistent the hazardous substance release cleanup policies and procedures followed by the department, the State Water Resources Control Board, and the California regional water quality control boards.

(Amended by Stats. 1994, Ch. 146, Sec. 113. Effective January 1, 1995. Repealed as of July 1, 1998, pursuant to Section 25395.)

25356. (a) The department shall adopt, by regulation, the criteria for the selection and for the priority ranking of sites pursuant to subdivision (b), for removal and remedial action under this chapter, and shall adopt criteria for the assignment of sites to one of the three tiers pursuant to subdivision (c). The criteria shall take into account the pertinent factors relating to the public health and the environment, which shall include, but are not limited to, potential hazards to public health and environment, the risk of fire or explosion, toxic hazards, the extent to which the deferral of a remedial action will result, or is likely to result, in a rapid increase in cost, or in hazard to human health and the environment, and the criteria established pursuant to Section 105(8) of the federal act (42 U.S.C. Sec. 9605(8)). The criteria may include a minimum hazard threshold, below which sites shall not be listed pursuant to this section, if the sites are subject to the authority of the department to order removal or remedial action, or similar action, pursuant to Chapter 6.5 (commencing with Section 25100).

(b) The department shall publish and revise, at least annually, a listing of the sites subject to this chapter. The sites shall be categorized and placed on one of the following lists:

(1) A list of the hazardous substance release sites for which the department has identified a responsible party, and the responsible party is in compliance, as determined by the department, with an order issued, or an enforceable agreement entered into, pursuant to subdivision (a) of Section 25355.5. The department shall publish the list of sites under this paragraph in an appendix to the site-specific plan of expenditures prepared pursuant to Section 25334.5.

(2) A list of the hazardous substance release sites for which all of the following apply:

(A) The department has not been able to identify a responsible party or the responsible party is not in compliance, as determined by the department, with an order issued, or an enforceable agreement entered into, pursuant to subdivision (a) of Section 25355.5.

(B) The nature and extent of the hazardous substance release at the site has not been adequately characterized by the responsible party or the department.

The department shall characterize a site on the list before ranking the site on the list described in paragraph (3).

(3) A list of the hazardous substance release sites which were previously listed pursuant to paragraph (1), if the sites have been adequately characterized but the responsible

parties are not in compliance with an order or enforceable agreement issued or entered into pursuant to subdivision (a) of Section 25355.5, or sites which were previously listed pursuant to paragraph (2) but which have since been inadequately characterized by the department. Sites on the list specified in this paragraph shall be ranked numerically in accordance with the criteria adopted for the priority ranking of sites.

(c) The department shall assign each site listed pursuant to paragraphs (2) and (3) of subdivision (b), sites listed on the National Priorities List pursuant to the federal act, and sites which are federal military facilities to one of three tiers for the purpose of informing the public of the relative hazard of the sites. The listing of sites by tiers shall be widely disseminated to the public. The "priority one" tier shall include any site that poses a known or probable immediate threat to public health through direct human contact, explosions, fires, or acutely serious air emissions, has a high potential to contaminate or to continue to contaminate groundwater resources that are present or possible future sources of drinking water, or any site for which the costs for removal and remedial action pose the risk of increasing rapidly if removal or remedial action is deferred. The "priority two" tier shall include any site that poses a substantial but less immediate threat to public health and safety or the environment. The "priority three" tier shall include any site that will require removal and remedial action, but presents only a limited and defined threat to human health or the environment. Priority two and three tiers may contain sites formerly listed in tiers one or two for which direct human health threats have been removed and at which physical deterioration in environmental quality has been stabilized. For the purpose of this subdivision, in informing the public of the relative environmental and public health threats posed by a site, the department shall list sites alphabetically within each of the three tiers. The department shall periodically update the list of sites by tiers to reflect new information regarding existing sites or the addition of new sites requiring removal and remedial action. No site listed pursuant to paragraph (1) of subdivision (b) shall be listed pursuant to this subdivision.

(d) The department's development and publication of the listings of sites, pursuant to subdivision (b) and the adoption of a minimum hazard threshold and the classification of a site as within that threshold pursuant to subdivision (a), are not subject to Chapter 3.5 (commencing with Section 11340) of Part 1 of Division 3 of Title 2 of the Government Code.

(e) Funds appropriated to the department for remedial action shall be expended in conformance with the priority ranking of sites, as established on the list of sites specified in paragraph (3) of subdivision (b), except that funds appropriated for remedial action may be expended without conforming to the priority ranking if either of the following apply:

(1) The funds are necessary to monitor removal or remedial actions conducted by private parties listed pursuant to paragraph (1) of subdivision (b) or the state funds are necessary for the state share of a removal or remedial action

pursuant to Section 104(c)(3) of the federal act (42 U.S.C. Sec. 9604(c)(3)).

(2) The funds are used for either of the following purposes:

(A) To assess, evaluate, and characterize the nature and extent of a hazardous substance release on sites listed pursuant to paragraph (2) of subdivision (b).

(B) To carry out activities pursuant to paragraph (2) or (3) of subdivision (b), or subdivision (c) or (d) of, Section 25355.5.

(f) Funds may be expended on more than one site on the list specified in paragraphs (2) and (3) of subdivision (b) at any one time. In addition, funds may be expended for oversight of any activities conducted by a responsible party on more than one site on the list specified in paragraph (1) of subdivision (b) at any one time.

(g) This section does not require the department to characterize every site listed pursuant to paragraph (2) of subdivision (b) before the department may begin removal or remedial actions at sites listed pursuant to paragraph (3) of subdivision (b).

(Amended by Stats. 1988, Ch. 1387, Sec. 6. Repealed as of July 1, 1998, pursuant to Section 25395.)

→ **25356.1.** (a) For purposes of this section, "regional board" means a California regional water quality control board and "state board" means the State Water Resources Control Board.

(b) Except as provided in subdivision (h), the department, or, if appropriate, the regional board shall prepare or approve remedial action plans for all sites listed pursuant to Section 25356.

(c) A potentially responsible party may request the department or the regional board, when appropriate, to prepare or approve a remedial action plan for any site not listed pursuant to Section 25356, if the department or the regional board determines that a removal or remedial action is required to respond to a release of a hazardous substance. The department or the regional board shall respond to a request to prepare or approve a remedial action plan within 90 days of receipt. This subdivision does not affect the authority of any regional board to issue and enforce a cleanup and abatement order pursuant to Section 13304 of the Water Code or a cease and desist order pursuant to Section 13301 of the Water Code.

→ (d) All remedial action plans prepared or approved pursuant to this section shall be based upon Section 25350, Subpart F of the National Oil and Hazardous Substances Pollution Contingency Plan (40 C.F.R. 300.61 et seq.), and any amendments thereto, and upon all of the following factors, to the extent that these factors are consistent with these federal regulations and do not require a less stringent level of cleanup than these federal regulations:

→ (1) Health and safety risks posed by the conditions at the site. When considering these risks, the department or the regional board shall consider scientific data and reports which may have a relationship to the site.

→ (2) The effect of contamination or pollution levels upon present, future, and probable beneficial uses of contaminated, polluted, or threatened resources.

→ (3) The effect of alternative remedial action measures on the reasonable availability of groundwater resources for present, future, and probable beneficial uses. The department or the regional board shall consider the extent to which remedial action measures are available which use, as a principal element, treatment that significantly reduces the volume, toxicity, or mobility of the hazardous substances, as opposed to remedial actions which do not use this treatment. The department or the regional board shall not select remedial action measures which use offsite transport and disposal of untreated hazardous substances or contaminated materials if practical and cost-effective treatment technologies are available.

→ (4) Site specific characteristics, including the potential for offsite migration of hazardous substances, the surface or subsurface soil, and the hydrogeologic conditions, as well as preexisting background contamination levels.

→ (5) Cost-effectiveness of alternative remedial action measures. In evaluating the cost-effectiveness of proposed alternative remedial action measures, the department or the regional board shall consider, to the extent possible, the total short-term and long-term costs of these actions and shall use, as a major factor, whether the deferral of a remedial action will result, or is likely to result, in a rapid increase in cost or in the hazard to public health or the environment posed by the site. Land disposal shall not be deemed the most cost-effective measure merely on the basis of lower short-term cost.

→ (6) The potential environmental impacts of alternative remedial action measures, including, but not limited to, land disposal of the untreated hazardous substances as opposed to treatment of the hazardous substances to remove or reduce its volume, toxicity, or mobility prior to disposal.

→ (e) A remedial action plan prepared or approved pursuant to this section shall include a statement of reasons setting forth the basis for the removal and remedial actions selected. The statement shall include an evaluation of each proposed alternative submitted to, or prepared by, the department or the regional board for a particular site. The statement shall also include an evaluation of the consistency of the removal and remedial actions proposed by the plan with the federal regulations and factors specified in subdivision (d) and shall set forth the reasons for rejection of alternative removal and remedial actions. The statement shall also include a nonbinding preliminary allocation of responsibility among all identifiable potentially responsible parties at a particular site, including those parties which may have been released, or may otherwise be immune, from liability pursuant to this chapter or any other provision of law. Before adopting a final remedial action plan, the department or the regional board shall prepare or approve a draft remedial action plan and shall do all of the following:

(1) Circulate the draft plan for at least 30 days for public comment.

(2) Notify affected local and state agencies of the removal and remedial actions proposed in the remedial action plan and publish a notice in a newspaper of general circulation in the area affected by the draft remedial action plan. The department or the regional board shall also post

notices in the location where the proposed removal or remedial action would be located and shall notify, by direct mailing, the owners of property contiguous to the site addressed by the plan, as shown in the latest equalized assessment roll.

(3) Hold one or more meetings with the lead and responsible agencies for the removal and remedial actions, the potentially responsible parties for the removal and remedial actions, and the interested public, to provide the public with the information which is necessary to address the issues which concern the public. The information to be provided shall include an assessment of the degree of contamination, the characteristics of the hazardous substances, an estimate of the time required to carry out the removal and remedial actions, and a description of the proposed removal and remedial actions.

(4) Comply with Section 25358.7.

(f) After complying with subdivision (e), the department or the regional board shall review and consider any public comments, and shall revise the draft plan, if appropriate. The department or the regional board shall then issue the final remedial action plan.

(g) (1) A potentially responsible party named in the final remedial action plan issued by the department or the regional board may seek judicial review of the final remedial action plan by filing a petition for writ of mandate pursuant to Section 1085 of the Code of Civil Procedure within 30 days after the final remedial action plan is issued by the department or the regional board. Any other person who has the right to seek judicial review of the final remedial action plan by filing a petition for writ of mandate pursuant to Section 1085 of the Code of Civil Procedure shall do so within one year after the final remedial action plan is issued. No action may be brought by a potentially responsible party to review the final remedial action plan if the petition for writ of mandate is not filed within 30 days of the date that the final remedial action plan was issued. No action may be brought by any other person to review the final remedial action plan if the petition for writ of mandate is not filed within one year of the date that the final remedial action plan was issued. The filing of a petition for writ of mandate to review the final remedial action plan shall not stay any removal or remedial action specified in the final plan.

(2) For purposes of judicial review, the court shall uphold the final remedial action plan if the plan is based upon substantial evidence available to the department or the regional board, as the case may be.

(3) This subdivision does not prohibit the court from granting any appropriate relief within its jurisdiction, including, but not limited to, enjoining the expenditure of funds pursuant to paragraph (2) of subdivision (b) of Section 25385.6.

(h) (1) This section does not require the department or a regional board to prepare a remedial action plan if conditions present at a site present an imminent or substantial endangerment to the public health and safety or to the environment or, if the department, a regional board, or a responsible party takes a removal action at a site and the estimated cost of the removal action is less than one million

dollars (\$1,000,000). The department or a regional board shall prepare or approve a removal action workplan for all sites where a nonemergency removal action is proposed and where a remedial action plan is not required. For sites where removal actions are planned and are projected to cost less than one million dollars (\$1,000,000), the department or a regional board shall make the local community aware of the hazardous substance release site and shall prepare, or direct the parties responsible for the removal action to prepare, a community profile report to determine the level of public interest in the removal action. Based on the level of expressed interest, the department or regional board shall take appropriate action to keep the community informed of project activity and to provide opportunities for public comment which may include conducting a public meeting on proposed removal actions.

(2) A remedial action plan is not required pursuant to subdivision (b) if the site is listed on the National Priority List by the Environmental Protection Agency pursuant to the federal act, if the department or the regional board concurs with the remedy selected by the Environmental Protection Agency's record of decision. The department or the regional board may sign the record of decision issued by the Environmental Protection Agency if the department or the regional board concurs with the remedy selected.

(3) The department may waive the requirement that a remedial action plan meet the requirements specified in subdivision (d) if all of the following apply:

(A) The responsible party adequately characterizes the hazardous substance conditions at a site listed pursuant to Section 25356.

(B) The responsible party submits to the department, in a form acceptable to the department, all of the following:

(i) A description of the techniques and methods to be employed in excavating, storing, handling, transporting, treating, and disposing of materials from the site.

(ii) A listing of the alternative remedial measures which were considered by the responsible party in selecting the proposed removal action.

(iii) A description of methods that will be employed during the removal action to ensure the health and safety of workers and the public during the removal action.

(iv) A description of prior removal actions with similar hazardous substances and with similar public safety and environmental considerations.

(C) The department determines that the remedial action plan provides protection of human health and safety and for the environment at least equivalent to that which would be provided by a remedial action plan prepared in accordance with subdivision (c).

(D) The total cost of the removal action is less than two million dollars (\$2,000,000).

(4) For purposes of this section, the cost of a removal action includes the cleanup of removal of released hazardous substances from the environment or the taking of other actions which are necessary to prevent, minimize, or mitigate damage which may otherwise result from a release or threatened release, as further defined by Section 9601 (23) of Title 42 of the United States Code.

(5) Paragraph (2) of this subdivision does not apply to a removal action paid from the Hazardous Substance Cleanup Fund.

(I) Article 2 (commencing with Section 13320), Article 3 (commencing with Section 13330), Article 5 (commencing with Section 13350), and Article 6 (commencing with Section 13360) of Chapter 5 of Division 7 of the Water Code apply to any action or failure to act by a regional board pursuant to this section.

(Amended by Stats. 1994, Ch. 441, Sec. 2. Effective January 1, 1995. Repealed as of July 1, 1998, pursuant to Section 25395.)

25356.2. (a) There is hereby created in the Office of Environmental Health Hazard Assessment a Hazardous Substance Cleanup Arbitration Panel.

(b) The panel shall apportion liability for the costs of removal and remedial actions in accordance with Sections 25356.3 and 25356.4. All meetings of the panel are exempt from Chapter 3.5 (commencing with Section 6250) of Division 7 of Title 1 of, and Article 9 (commencing with Section 11120) of Chapter 1 of Part 1 of Division 3 of Title 2 of, the Government Code.

(c) The panel shall be comprised of independent private arbitrators who have applied to the Office of Environmental Health Hazard Assessment for membership on the panel. Panel members shall have (1) relevant arbitration background and (2) expertise in engineering, expertise in the physical, biological, or health sciences, or other relevant experience and qualifications. Three arbitrators shall be selected from the panel to apportion liability for a single hazardous wastesite. A majority of the arbitrators selected for a single site may apportion liability for the panel under this chapter.

(d) The arbitrators shall be selected for an individual hazardous wastesite as follows:

(1) One arbitrator shall be selected by the department or by the regional water quality control board.

(2) One arbitrator shall be selected by the potentially responsible party, or a majority of the potentially responsible parties, who have submitted to binding arbitration by the panel.

(3) The two arbitrators selected pursuant to paragraphs (1) and (2) shall jointly select a third arbitrator.

(Amended by Stats. 1994, Ch. 143, Sec. 1. Effective January 1, 1995. Repealed as of July 1, 1998, pursuant to Section 25395.)

25356.3. (a) The department or the regional water quality control board shall serve a copy by mail of the draft remedial action plan upon all potentially responsible parties identified in the plan. Within 15 days after the issuance of a final remedial action plan, any potentially responsible parties with aggregate alleged liability in excess of 50 percent of the costs of removal and remedial action, as set forth in the statement of reasons issued pursuant to subdivision (d) of Section 25356.1, but excluding any costs which are the subject of an agreement under which any party agrees to assume liability for those costs, may convene an arbitration proceeding by agreeing to submit to binding arbitration by the panel. The filing of a demand to convene an arbitration panel shall not stay any removal or remedial actions specified in the plan. If an arbitration panel is

APPENDIX B

ARARs

TABLE B-1
Federal Chemical-Specific ARARs by Media
IR Sites 3, 4, 5, and 6A
Naval Station Long Beach
(Sheet 1 of 2)

Requirement	Prerequisite	Citation	ARAR Determination			Comments
			A	RA	TBC	
GROUNDWATER						
Resource Conservation and Recovery Act (RCRA)*						
Toxicity characteristic leaching procedure (TCLP) regulatory levels; Persistent and bioaccumulative toxic substances total threshold limit concentrations (TTLCs) and soluble threshold limit concentrations (STLCs).	Hazardous waste treatment, storage, or disposal.	Title 22 CCR, 66261.24(a)			Yes	Applicable for determining whether waste is hazardous. It is not expected that RCRA hazardous waste will be generated; however, testing will be done and if hazardous waste characteristic is present, regulations will apply.
Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)						
Alternate concentration limits (ACLs).	There are known and projected points of entry of groundwater to surface water; there is no statistically significant increase of hazardous constituents from groundwater in surface water at point of entry; and there are enforceable institutional controls to preclude human exposure at any point between the facility boundary and the point of entry to surface water.	CERCLA Section 121(d)(2)(B)(ii)			Yes	Applicable as outlined under prerequisites. Allows a risk-based approach to setting alternate concentration limits based on a surface water discharge pathway.

TABLE B-1
Federal Chemical-Specific ARARs by Media
(Sheet 2 of 2)

Requirement	Prerequisite	Citation	ARAR Determination			Comments
			A	RA	TBC	
SOIL						
Resource Conservation and Recovery Act (RCRA)/Hazardous Waste Control Act (HWCA)*						
Definition of RCRA hazardous waste.	Waste soil	Title 22 CCR Sections 66261.21, 66261.22(a)(1), 66261.23, 66261.24(a)(1), and 66261.100			Yes	Applicable for determining whether waste is hazardous. Wastes may be generated as a result of maintenance or expansion of the groundwater monitoring network.
Toxic Substances Control Act (TSCA)*						
Regulates use and manufacture of toxic substances and storage and disposal of polychlorinated biphenyls (PCBs.)	Soils, debris, sludge, or dredged materials contaminated with PCBs at concentrations greater than 50 parts per million (ppm).	40 CFR 761.60, excluding 761.60(a)(B, and D), 761.60(a)(3)(iii)(3), 761.60(e), 761.60(f); 761.65(a, and b); 761.65(c), except 761.65(c)(9); 761.65(e)(6)(ii and iii); 761.65(e)(7 and 8); 761.79 (15 USC 2601, et seq.)			Yes	Not applicable because PCBs were detected in surface soils at sites 3, 5, and 6A at concentrations well below 50 ppm. However, may be relevant and appropriate for these lower levels of PCB contamination.

*Statutes and policies, and their citations, are provided as headings to identify general categories of potential ARARs for the convenience of the reader. Listing the statutes and policies does not indicate that DON accepts the entire statutes or policies as potential ARARs. Specific potential ARARs are addressed in the table below each general heading; only substantive requirements of the specific citations are considered potential ARARs.

RWQCB - California Regional Water Quality Control Board, San Diego Region.

Reference: [BNI] Bechtel National, Inc. 1996. *Final Remedial Investigation (RI) Report, Installation Restoration Program for Sites 1 through 6A, Naval Station Long Beach, Long Beach, California*, CTO-0015/0415, CTO-0016/0393. July 10.

Chemical-specific concentrations used for feasibility study (FS) evaluation may not be ARARs indicated in this table, but may be concentrations based upon other factors. Such factors may include the following:

- Human health risk-based concentrations (risk-based; PRGs 40 CFR 300.430[e][A][1] and [2]).
- Ecological risk-based concentrations (40 CFR 300.430[e][G]).
- Practical quantitation limits of contaminants (40 CFR 300.430[e][A][3]).

Many potential action-specific ARARs contain chemical-specific limitations and are addressed in the action-specific ARAR tables.

TABLE B-2
Federal Location-Specific ARARs
IR Sites 3, 4, 5, and 6A
Naval Station Long Beach
(Sheet 1 of 1)

Location	Requirement	Prerequisite	Citation	ARAR Determination			Comments
				A	RA	TBC	
Executive Order 11988, Protection of Floodplains*							
Within floodplain	Actions taken should avoid adverse effects, minimize potential harm, restore and preserve natural and beneficial values.	Action that will occur in a floodplain, i.e., lowlands, and relatively flat areas adjoining inland and coastal waters and other flood- prone areas.	40 CFR 6, Appendix A; excluding Sections 6(a)(2), 6(a)(4), 6(a)(6); 40 CFR 6.302			Yes	Flooding from Los Angeles River and Dominguez Canal is not a major threat to LBNC. FEMA maps show Terminal Island is not within an area considered susceptible to flooding during a statistical 100- or 500-yr flood (BNI, 1996). However, area may be subject to storm surge.
Coastal Zone Management Act*							
Within coastal zone	Conduct activities in a manner consistent with approved State management programs.	Activities affecting the coastal zone including lands thereunder and adjacent shoreland.	Section 307(c) of 16 USC 1456(c); also see 15 CFR 930 and 923.45			Yes	Sites are in coastal area.
Migratory Bird Treaty Act of 1972*							
Migratory bird area	Protects almost all species of native birds in the U.S. from unregulated "take", which can include poisoning at hazardous waste sites.	Presence of migratory birds.	16 USC Section 703			Yes	Migratory birds, such as the least tern, are known to frequent the area. None of the site activities resulting from the ROD are expected to affect migratory birds.
Marine Mammal Protection Act*							
Marine mammal area	Protects any marine mammal in the U.S. except as provided by international treaties from unregulated "take."	Presence of marine mammals.	16 USC 1372(2)			Yes	Mammals (harbor seal, California sea lion) have been sighted in the West Basin. None of the site activities resulting from the ROD are expected to affect these species.

* Statutes and policies, and their citations, are provided as headings to identify general categories of potential ARARs for the convenience of the reader. Listing the statutes and policies does not indicate that DON accepts the entire statutes or policies as potential ARARs. Specific potential ARARs are addressed in the table below each general heading; only substantive requirements of the specific citations are considered potential ARARs.

ARARs - Applicable or relevant and appropriate requirements

CCR - California Code of Regulations.

CFR - Code of Federal Regulations.

USC - United States Code.

Reference: [BNI] Bechtel National, Inc. 1996. *Final Remedial Investigation (RI) Report, Installation Restoration Program for Sites 1 through 6A, Naval Station Long Beach, Long Beach, California*, CTO-0015/0415, CTO-0016/0393. July 10.

TABLE B-3
Federal Action-Specific ARARs
IR Sites 3, 4, 5, and 6A
Naval Station Long Beach
(Sheet 1 of 1)

Action	Requirement	Prerequisites	Citation	ARAR Determination			Comments ^(a)
				A	RA	TBC	
Resource Conservation and Recovery Act (RCRA) 42 USC 6901 et seq.*							
Closure of Land Treatment Unit	Closure and postclosure care requirements for hazardous waste land treatment units.	Land treatment unit used to treat or dispose hazardous waste.	22 CCR 66264.280	No	No	Yes	No treatment/disposal of waste for either alternative (possibly TBC for engineering/institutional controls).

*Statutes and policies, and their citations, are provided as headings to identify general categories of potential ARARs. Specific potential ARARs are addressed in the table below each general heading.

(a) Alternatives: Sites 3, 4, 5, 6A: 1 - No Action; 2 - Engineering controls/Institutional controls (e.g., access restrictions, fencing, deed restrictions, and groundwater monitoring)

A - Applicable; RA - Relevant and appropriate; TBC - To be considered.

TABLE B-4
State Chemical-Specific ARARs
IR Sites 3, 4, 5, and 6A
Naval Station Long Beach
(Sheet 1 of 1)

Requirement	Prerequisites	Citation	ARAR Determination			Comments
			A	RA	TBC	
Cal/EPA Department of Toxic Substances Control (DTSC)*						
Definition of "non-RCRA hazardous waste"	Waste	22 CCR 66261.22(a)(3) and (4), 66261.24(a)(2) to (a)(8), 66261.101, 66261.3(a)(2)(C), or 66261.3(a)(2)(F)			Yes	Applicable for determining whether a waste is a non-RCRA hazardous waste. Wastes may be generated as a result of the groundwater monitoring program.

* Statutes and policies, and their citations, are provided as headings to identify general categories of potential ARARs for the convenience of the reader. Listing the statutes and policies does not indicate that DON accepts the entire statutes or policies as potential ARARs. Specific potential ARARs are addressed in the table below each general heading; only substantive requirements of specific citations are considered potential ARARs.

Chemical-specific concentrations used for remedial action alternative evaluation may not be ARARs indicated in this table, but may be concentrations based upon other factors. Such factors may include the following:

- Human health risk-based concentrations (Risk-based PRGs) [40 CFR 300.430(e)(A)(1) and (2)]
- Ecological risk-based concentrations [40 CFR 300.430(e)(G)]
- Practical quantitation limits of contaminants [40 CFR 300.430(e)(A)(3)].

Many potential action-specific ARARs contain chemical-specific limitations and are addressed in the action-specific ARAR tables.

TABLE B-5
State Location-Specific ARARs
IR Sites 3, 4, 5, and 6A
Naval Station Long Beach
(Sheet 1 of 1)

Location	Requirement	Prerequisites	Citation	ARAR Determination			Comments
				A	RA	TBC	
California Coastal Act of 1976*							
Coastal Zone	Regulates activities associated with development to control direct significant impacts on coastal waters and to protect State and national interests in California coastal resources.		Public Resources Code Sections 30000-30900; 14 CCR 13001-13666.4			Yes	Site is within the coastal zone.

* Statutes and policies, and their citations, are provided as headings to identify general categories of potential ARARs for the convenience of the reader. Listing the statutes and policies does not indicate that DON accepts the entire statutes or policies as potential ARARs. Specific potential ARARs follow each general heading; only substantive requirements of the specific citations are considered potential ARARs.

TABLE B-6
State Action-Specific ARARs
IR Sites 3, 4, 5, and 6A
Naval Station Long Beach
(Sheet 1 of 1)

Requirement	Prerequisites	Citation	ARAR Determination			Comments ^(a)
			A	RA	TBC	
State Water Resources Control Board (SWRCB) and Regional Water Quality Control Board (RWQCB)*						
Establishes beneficial uses of ocean waters, numerical and narrative water quality objectives, effluent quality objectives including toxic material limitations, and discharge prohibitions.		Water Code Section 13170.2 (Water Quality Control Plan for Ocean Water of California)	Yes			Water quality objectives apply to the groundwater migrating to the ocean.
California Department of Fish and Game Code*						
Prohibits water pollution with any substance or material deleterious to fish, plant life, or bird life.	Deposit in, permit to pass into, or place where they could pass into waters of the State, listed or deleterious substances.	Fish and Game Code Chapter 2, §5650(a), (b) and (f)	Yes			Groundwater migrates to the ocean
Defines use of water for recreation and preservation and enhancement of fish and wildlife resources as a beneficial use of water; and includes policy on appropriation of water.		Water Code Section 1243	Yes			

* Statutes and policies, and their citations, are provided as headings to identify general categories of potential ARARs for the convenience of the reader. Listing the statutes and policies does not indicate that DON accepts the entire statutes or policies as potential ARARs. Specific potential ARARs are addressed in the table below each general heading; only substantive requirements of the specific actions are considered potential ARARs.

^(a) Alternatives: Sites 3, 4, 5, 6A: 1 - No Action; 2 - Engineering controls/Institutional controls (e.g., access restrictions, fencing, deed restrictions, and groundwater monitoring).

A - Applicable.

RA - Relevant and appropriate.

TBC - To be considered.

USDW - Underground source of drinking water.

APPENDIX C

**PUBLIC COMMENT PERIOD NOTIFICATION, ROSTER OF PUBLIC
MEETING ATTENDEES, AND PUBLIC MEETING TRANSCRIPT**

PROOF OF PUBLICATION
(2015.5 C.C.P.)

STATE OF CALIFORNIA,
COUNTY OF LOS ANGELES,

I am a citizen of the United States States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above-entitled matter. I am the principal clerk of the printer of the Long Beach Press-Telegram, a newspaper of general circulation, printed and published 7 times each week in the City of Long Beach, County of Los Angeles, and which newspaper has been adjudged a legal newspaper of general circulation by the Superior Court of the County of Los Angeles, State of California, under the date of March 21, 1984.

Case Number 370512; that the notice, of which the annexed is a printed copy (set in type not smaller than nonpareil), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

May 20,
all in the year 1998.

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Dated at Long Beach, California, this 20th day of May, 1998.

Barbara Allison
Signature

Press-Telegram Legal
Advertising Department

604 Pine Ave., Long Beach, Ca., 90844
(310) 499-1236

This space is for the County Clerk's Filing Stamp

PROOF OF PUBLICATION OF
Naval Facilities Engineering Command, Southwest Division
PUBLIC COMMENT PERIOD

PUBLIC COMMENT PERIOD
PROPOSED CLEANUP PLAN FOR SITES 3, 4, 5 & 6A
NAVAL STATION LONG BEACH

The Naval Facilities Engineering Command, Southwest Division, invites public comment on the Proposed Plan, Remedial Investigation and Feasibility Study for Sites 3-6A, at the former Long Beach Naval Station. The Proposed Plan provides information about the alternatives considered for cleanup, identifies the preferred alternatives and seeks public input prior to making a final decision. Specifically, the Navy is proposing the following:

- Deed restriction for Site 4 and 5 (Site 4 is a fill area within the mole pier and Site 5 is a disposal area on the mainland.)
- Combination of deed restrictions and groundwater monitoring for Sites 3 and 6A (Site 3 is a disposal area within the mole pier. Site 6A consists of a scrap yard and disposal area.)

The final selection of the cleanup alternative will not be made until public comments have been received and considered. The public review period extends from May 8 through June 19, 1998 (the end date has been extended from the Proposed Plan). A public meeting will be held to provide the community with an opportunity to discuss and provide comments on the Proposed Plan and supporting documents. The meeting will be held:

MAY 27, 1998 - 7:00 P.M.

NAVY/MARINE CARETAKER SITE OFFICE (BLDG. 686)

TO GAIN ACCESS, ENTER VIA NAVY WAY. BUILDING 686 IS OFF NAVY AND OCEAN WAY, ADJACENT TO THE FORMER NAVAL STATION LONG BEACH.

An administrative record has been prepared in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLA regulates the cleanup of sites containing hazardous substances.

**PUBLIC COMMENT PERIOD
PROPOSED CLEANUP PLAN FOR SITES 3, 4, 5 & 6A
NAVAL STATION LONG BEACH**

PROOF OF PUBLICATION OF
Naval Facilities Engineering Command, Southwest Division
PUBLIC COMMENT PERIOD

The Naval Facilities Engineering Command, Southwest Division, invites public comment on the **Proposed Plan, Remedial Investigation and Feasibility Study** for Sites 3-6A, at the former Long Beach Naval Station. The Proposed Plan provides information about the alternatives considered for cleanup, identifies the preferred alternatives and seeks public input prior to making a final decision. Specifically, the Navy is proposing the following:

- Deed restriction for Site 4 and 5 (Site 4 is a fill area within the mole pier and Site 5 is a disposal area on the mainland.)
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TO GAIN ACCESS, ENTER VIA NAVY WAY. BUILDING 686 IS OFF NAVY AND
OCEAN WAY, ADJACENT TO THE FORMER NAVAL STATION LONG BEACH.**

An administrative record has been prepared in accordance with the **Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)**. CERCLA regulates the cleanup of sites containing hazardous waste. The administrative record file which includes all documents leading to the proposed clean up decision for Sites 3-6A, is located at Naval Facilities Engineering Command, 1220 Pacific Highway, Building 129, San Diego, California (please telephone Christine Potter, at (619) 532-1144 to arrange for an appointment.)

The documents currently open for review and comment, specifically, the **Proposed Plan for Sites 3-6A and the Remedial Investigation and Feasibility Study**, are also on file at:

**Long Beach Public Library, Government Publications Department
101 Pacific Avenue
Long Beach, CA 90822
(562) 570-7500**

Written comments should be postmarked no later than June 8, 1998, and sent to:

**Commander
Southwest Division, Naval Facilities Engineering Command
1220 Pacific Highway
San Diego, CA 92132-5190
Attn: Lee Saunders
(619) 532-3100**

Questions regarding the Proposed Plan and associated documents, or other issues related to the environmental cleanup program, should be directed to **Lee Saunders, Environmental Public Affairs Officer**, at the above address and telephone number.

Pub. May 20, 1998 (1)PT(6824/609829)

**LONG BEACH NAVAL COMPLEX PUBLIC MEETING
SIGN-IN SHEET FOR MAY 27, 1998**

[PRINT] NAME	AFFILIATION	ADDRESS
Michelle Gallun	CDM Federal	3760 Convey St, Suite 210 San Diego, CA 92111
CDR TOM D. DOLIVE	BASE TRANSITION COORDINATOR	821 Reeves Ave San Pedro, CA 90731
ERNIE JARAMILLO	Community	6491 SAN DIEGO DR BUENA PARK, CA. 90620
Carro Lutz	DTSC	5796 Corporate Ave Cypress
Alan Lee	SW DIV	1220 Pacific Highway San Diego, CA 92132
Rick Sauerwein	Battelle	5235 Sealane Way Oxnard, CA 93035
Philip Jagucki	Battelle	555 King Ave Columbus, OH 43201
Thomas Macchiarella - NAVY		1220 Pacific Highway San Diego, CA 92132
Ter. Morgan	52nd Assembly District Assemblyman	145 E. Compton Blvd. Compton, CA. 90220
Martina	US EPA	75 Hawthorn SF
Pete Warrig	COMMUNITY	5110 MARINA PACIFICA LONG BEACH, CA 90803
John Essington	RAB	7043 Hanbury St. Long Beach, CA 90808
Lee H. Saunders	SWD NAVFAC	1220 Pacific Highway San Diego, CA 92132
Leslie Unruh	US Sea Launch	2700 Wilmittz Road Long Beach, CA 90802
LISA Teor	Court Reporter	7851 Mission Center Crt. #120 S.D. CA 92108

ORIGINAL

PUBLIC MEETING
FOR THE PROPOSED PLAN,
SITES 3, 4, 5 AND 6A AT THE FORMER
NAVAL STATION LONG BEACH

given by Michelle Gallice, CDM Federal Programs, and
Thomas L. Macchiarella, Navy Project Manager, and
Philip E. Jagucki, CPG, Principal Research
Scientist-Environmental Restoration Department, commencing at
the hour of 7:00 p.m. on Wednesday, May 27, 1998, at
Navy/Marine Caretaker Site Room, Building 686, Long Beach,
California, before Lisa A. M. Toor, Certified Shorthand Reporter
in and for the State of California.

REPORTED BY LISA A.M. TOOR, C.S.R. 8405

1 APPEARANCES:

2 Introduction and Solicitation of Public Comments by:

3 MICHELLE GALLICE
4 CDM FEDERAL PROGRAMS

5 Overview of the Navy's Installation Restoration Program:

6 THOMAS L. MACCHIARELLA
7 LEAD REMEDIAL PROJECT MANAGER,
8 LONG BEACH NAVAL COMPLEX
9 1430 Kettner Boulevard, Suite 501
10 San Diego, CA 92101-2404

11 Presentation of Proposed Plan and the Preferred Alternatives:

12 BATTELLE
13 By: PHILIP E. JAGUCKI, CPG
14 505 King Avenue
15 Columbus, Ohio 43201-2693
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I N D E X

COMMENTS

PAGE

By Ms. Gallice

4
16

By Mr. Macchiarella

4
17

By Mr. Jagucki

9

1 WEDNESDAY, MAY 27, 1998

LONG BEACH, CALIFORNIA

2
3
4 MICHELLE GALLICE: Anybody here who doesn't know
5 me, my name is Michelle Gallice, I'm here for CDM Federal
6 Programs, I'm a Navy contractor.

7 I wanted to just kind of announce a couple things:
8 One of the things is, if it's okay with everybody in the room,
9 we'd like to go ahead and tape record the meeting tonight; does
10 anybody have any objections?

11 (No audible response.)

12 MICHELLE GALLICE: Okay. Then I'm going to go
13 ahead and start the tape rolling.

14 The next thing is; just a couple of administrative
15 things, the bathrooms are down the hall, here we coffee and
16 water. On the side there are handouts, so I hope everybody
17 grabbed one of those, they will have information to refer to.

18 Please make sure that everybody signs in so we have
19 it written down that you guys were at the meeting tonight.

20 Other thing is; we have the court reporter in the
21 corner here, she will be recording the entire meeting this
22 evening.

23 I guess that's all I have to say, so I'm going to
24 introduce Thomas Macchiarella.

25 THOMAS MACCHIARELLA: Thank you, Michelle.

26 My name is Thomas Macchiarella, I work at the Naval
27 Facilities Engineering Command, our office is in San Diego. My
28 job there is project manager for various projects here at the

1 station and shipyard.

2 Tonight we're here to talk only about sites 3, 4,
3 5, and 6A. The goal tonight is to make sure that all members of
4 the community have a clear understanding of our Proposed Plan of
5 Preferred Alternatives for these sites, and to accept and
6 provide an opportunity for members of the community to provide
7 comments.

8 I'd like to point out a few members of the audience
9 who should be recognized as members of the team. You already
10 met Michelle, also in the back corner here is Phil Jagucki, who
11 is a consultant of ours working on the Proposed Plan,
12 Feasibility Study and Record of Decision for these sites. And
13 Mr. Allan Lee is the BRAC Environmental Coordinator. Sitting
14 right next to him and from the United States EPA, Environment
15 Protection Agency, Martin Housladencal, EPA also,
16 Mr. Alvero Gutierrez. And back in the corner is
17 Lieutenant Commander Tony de Dominico, who is the Base
18 Coordinator.

19 I'd like to point out that tonight's meeting is not
20 intended to discuss reuse issues here at the complex, but only
21 for sites 3 through 6A, and the Proposed Alternative and
22 Proposed Plan. However, if you have any comments on reuse, I'm
23 sure that Mr. Allen Lee and Lieutenant Commander de Dominico,
24 would be happy to talk to you after the meeting.

25 There are some handouts on the table, did everybody
26 get them? There are a Fact Sheet that was mailed out to a
27 significant mailing list, and then the Proposed Plan, which is
28 our whole deal tonight. And then there's another set of

1 overheads that we're about to go through.

2 I'd like to point out, that comments will be
3 accepted through June 19th, and on the back of the Proposed Plan
4 is the address for Lee Sanders, who is our single point of
5 contact for these environmental affairs. And I'd like to
6 mention that both verbal comments this evening and written
7 comments that are mailed in, are all treated equally, and will
8 be addressed and incorporated into the Record of Decision.

9 Okay. With that I'd like to talk a little bit
10 about the Navy's Installation Restoration Program, otherwise
11 known as the IR Program. The purpose of the Navy's IR Program
12 is to identify, assess, characterize, and clean up hazardous
13 substance areas around naval installations, whether they're from
14 practices that were acceptable at the time and no longer are, or
15 from accidental spills, and to reduce the risk of human health
16 in the environment from these accidental spills and whatnot.
17 And to be consistent with CERCLA, which is a Comprehensive
18 Environmental Response, Compensation and Liability Act, which I'm
19 sure most members of our audience here tonight are familiar
20 with. And eventually we'd like -- our goal is to move all of
21 our Installation Restoration sites into a No Further Action
22 category, what we call Site Completion.

23 And a little more specific CERCLA process, and the
24 IR Program, begins with a Preliminary Assessment, which is
25 intended to discover areas that may need to go further in the
26 process. Just sort of a tiered approach, if something goes to
27 the next step, it's for a reason, otherwise, at some point we
28 can end that process.

1 The next step would be a site inspection, or an SI,
2 where we perform limited soil sampling and ground water sampling
3 and things like that, to verify that there was a release at this
4 location or at a location. If the site inspection does find
5 those types of things, then we move forward to Remedial
6 Investigation, where more specific site studies are completed,
7 and then a Feasibility Study, which would develop clean up
8 actions and methods for cleaning up the site, if necessary.

9 And the Proposed Plan, which is where we are right
10 now for sites 3, 4, 5 and 6A, proposes Preferred Alternatives
11 based on Feasibility Study.

12 And after the Proposed Plan comes the Record of
13 Decision, which is the official document that identifies the
14 selected remedy, our remedies. And after that, if necessary,
15 Remedial Design or Remedial Action will occur. And the end
16 goal, again, is Site Completion.

17 Now, I'm going to go into a little more detail
18 about our particular sites in this program. And at each step
19 there's significant regulatory input, and there are more than
20 one opportunity for community involvement as well. Tonight
21 during the Proposed Plan Public Meeting is one of those
22 opportunities. And it's actually a requirement of the CERCLA
23 process.

24 At 3, 4, 5 and 6A -- and by the way, we're going to
25 have another more detailed presentation on the next item on the
26 agenda -- I'm sorry, I meant to go over the agenda earlier. The
27 next item on the agenda is a more detailed presentation on the
28 Proposed Plan. So at that point we get more details on the

1 sites. But in general, the process that's happened so far is
2 Initial Assessment Study back in 1983, which is sort of a
3 base-wide approach. It was done at just about all naval
4 installations in the mid '80s. And that was equivalent to our
5 PA, Preliminary Assessment, identified a moment ago. So that
6 comes up with a list of sites that need to be looked at in a
7 little more detail.

8 At sites 3, 4, 5, and 6A a Site Inspection was
9 conducted in '91, with soil and groundwater investigations, and
10 identified that there was a need to perform a Remedial
11 Investigation, which was in 1996. Much more thorough
12 investigation of the soil and groundwater and human health risk
13 assessment was performed, some groundwater modeling. The
14 purposes of the groundwater modeling was to identify whether or
15 not contaminates would move in the sub-surface.

16 And another point I'd like to make, is that at any
17 point in the previous slide with the arrow towards Site
18 Completion in the CERCLA process, one can conduct an Interim
19 Removal. And there was an Interim Removal action done at
20 site 3, which reduced the risk there. There was a slight
21 arsenic laden soil problem there that was remediated, and the
22 Proposed Plan takes that into consideration.

23 In 1998, the Feasibility Study was completed
24 recently. And based on the findings of the Remedial
25 Investigation, the FS, developed Remedial Action Objectives,
26 which are also presented in the Proposed Plan. And evaluated
27 the alternatives to achieve those Remedial Action objectives.

28 Where we are now is the Proposed Plan. The

1 Proposed Plan provides for community involvement, for example,
2 this evening's meeting, and identifies the Preferred
3 Alternative, which came out-of the FS, the Feasibility Study.
4 And discusses the other alternatives that were looked into in
5 the Feasibility Study, and as the precursor to the Record of
6 Decision.

7 And the Navy, USEPA and California IEPA, are
8 scheduled to sign this Record of Decision, it's being worked on
9 as we speak. This certainly will give you an idea where this
10 process is.

11 So now, I'd like to ask if there are any clarifying
12 questions on this, on the slides I've just presented? Keep in
13 mind that in the next few more items down the agenda we'll have
14 official period where we can accept comments; but for now, are
15 there any questions on what I've just presented before we move
16 onto the next item?

17 (No audible response.)

18 THOMAS MACCHIARELLA: Okay. I'll introduce
19 Phil Jagucki.

20 PHILIP JAGUCKI: As Tom mentioned, my name is
21 Phil Jagucki, I'm a research scientist with Batelle. One of my
22 titles is Project Leader for this Long Beach project. What I
23 want to talk about tonight are some of the technical and other
24 issues that were evaluated, and that we carried through the
25 process of completing the documents that Tom mentioned; the
26 Feasibility Study, the Proposed Plan, eventually to lead to the
27 Record of Decision.

28 The items I'll cover tonight are the brief

1 description of supporting documents, that will point out what
2 the Remediation Objectives are that were developed as part of
3 the Feasibility Study; talk a little bit about the human health
4 risk that was completed; and finally, talk about the
5 alternatives that were identified, carried through that process,
6 and that emerged, and how we evaluate those alternatives.

7 Just as a point of clarification where these sites
8 are: Sites 3, 4, 5 and 6A are the subject sites tonight,
9 sites 3 and 4 are out on the Navy mole.

10 Site 3 was also identified as industrial waste
11 disposal area. And this area was constructed by trenching out
12 shallow excavations, placing industrial waste there, and
13 covering it with trenches back over.

14 Site 4 was identified as the mole extension
15 operations. And this is an area where it was filled in in order
16 to widen the mole, a mixture of sandblast grit, solid waste,
17 trash, demolition debris, and soil, were placed in this area.
18 It was graded and then used as additional property.

19 Site 5 is also known as the skeet range, although
20 it was never used, as far as the records that were available, as
21 a skeet range. But it was used as disposal for some solid waste
22 and construction debris also.

23 Site 6 up here at the top, or 6A, is also
24 identified as the boat disposal location. Wastes here included
25 a variety of materials, including old boats, some sandblast
26 grit, and solid waste. And this area was also operated as a
27 trench and fill area, where shallow trenches were dug, material
28 was placed in there, and covered back over with soil. Following

1 that site use, part of the area was used as a scrap metal dump.

2 So the main documents that we used and then
3 developed through this process, was the Remedial Investigation
4 report. This included a -- Remedial Investigation included soil
5 and groundwater sampling and analyses. And as we summarized and
6 presented in the report, the report also included a human health
7 risk assessment, and included a groundwater computer model to
8 evaluate transport and movement of groundwater at the Navy mole.

9 From that we developed Feasibility Study, where one
10 of the key objectives for the study was to develop Remedial
11 Action Objectives for the sites, and then to go through a
12 process where we looked at a variety of technologies, and
13 screened those technologies that would apply to the site, and
14 determine which one would emerge as a Preferred Alternative.
15 And the four main alternatives that came out of that process
16 were presented in the Proposed Plan, which again, as Tom
17 mentioned, the purpose of that is to get community involvement
18 and also identify and clarify for the community what that
19 Preferred Alternative is.

20 Because both groundwater and soils were affected,
21 we divided or developed two sets of Remedial Action Objectives.
22 The first set applies to groundwater. And our first objective
23 is to monitor groundwater quality to evaluate whether there are
24 any changes occurring. I'll go into a little bit more detail on
25 that in a couple minutes.

26 The last two objectives deal with evaluation of
27 risk for the site. And I also want to talk about that a little
28 bit more later on in the presentation.

1 We looked at prevention of both the human cancer
2 and human non-cancer risk at the site. That is we wanted to
3 prevent an exposure to anyone from exceeding some manageable
4 range.

5 For the surface and sub-surface soil, the
6 objectives are simply the last two that were previously stated;
7 that is to prevent a cancer and non-cancer risk due to the site
8 conditions.

9 Risk assessments: Health risk assessments are
10 based on both facts and assumptions. The facts include
11 characteristics of the chemicals that are present in the soil or
12 groundwater, both the types and quantities. Other facts would
13 include characteristics of the soil, the groundwater itself, of
14 the media that's been affected.

15 The assumptions: Quite a few assumptions go into
16 this, but the key assumptions are based on what sort of risk is
17 expected to occur at the site. For these sites they are
18 evaluated using an industrial exposure scenario, and two types
19 of industrial workers were identified. The first is a person
20 who would be on site as a worker in one of the buildings or
21 other developments on the property; they would be there for
22 eight hours a day, 250 days a year for 25 years. The second
23 type of worker we evaluated was a utility worker. The reason we
24 separated them out, is a utility worker could potentially be
25 working below grade in a pit or excavation in a trench, and
26 would have a different set of conditions to which they're
27 exposed. For them, we assumed they would be on site eight hours
28 a day for 10 days a year for 25 years.

1 Within the Risk Assessment two types of risks were
2 evaluated: The cancer, and as I mentioned, non-cancer risk.
3 There's a little more detail that I'm giving right now on the
4 risk, that, obviously, there is a lot more in the Remedial
5 Investigation, and also the Proposed Plan provides a summary of
6 how a Risk Assessment was developed and what the conclusions
7 were.

8 As I mentioned, the risks we looked at were under
9 industrial exposure scenarios. Cancer risk was evaluated, and
10 EPA recognizes that an acceptable risk range for cancer risk is
11 somewhere between 1 in 10,000 and 1 in a million, or less than
12 that, obviously, for industrial applications. Non-cancer risk,
13 rather than based on an odds number like that, is based on a
14 ratio, and it's just the ratio of an actual or potential level
15 of exposure to the -- to an acceptable level. So as long as
16 it's less than 1, the risk is within that acceptable management
17 range.

18 Based on the results of risk assessment, and the
19 presentation or the conclusions of the Remedial Investigation,
20 it was determined that clean up for the sites is not warranted.
21 All of these four sites the risk fell within the acceptable
22 management ranges.

23 As I mentioned, part of the process we took you
24 through was to evaluate or to identify potential alternatives,
25 and then to further evaluate those. The first alternative is,
26 No Further Action. This alternative is required in any
27 Feasibility Study, and it's used as a baseline against which the
28 other alternatives are compared. Alternative two is,

1 Institutional Controls. For us what these mean, are deed
2 restrictions, which would limit the types of activities that may
3 occur on the property, or mainly what they are trying to manage
4 is the risk of an unnecessary exposure. The third alternative
5 is, long term groundwater monitoring. As I mentioned before,
6 the purpose of this is to verify the results of the Remedial
7 Investigation. And the groundwater monitoring or groundwater
8 modeling, transport model that was completed as part of that
9 investigation. And the second purpose is, to verify that
10 contaminants are not moving through the system where they could
11 affect the marine ecosystem adjacent to the site.

12 So each of these alternatives were carried through
13 nine evaluation criteria, and we're down through most of these
14 that are at the community acceptance stage on this program.
15 That's the last step in reaching a final Preferred Alternative.

16 PAUL WARD: Where do the nine criteria come from?

17 PHILIP JAGUCKI: These are out of the Regulation
18 Guidance for Development Feasibility Study. These are
19 prescriptive criteria that are defined in guidance documents and
20 are used for any Feasibility Study that's completed.

21 PAUL WARD: So it's an EPA guideline?

22 PHILIP JAGUCKI: Yes.

23 LEE SANDERS: CERCLA.

24 PAUL WARD: CERCLA?

25 PHILIP JAGUCKI: CERCLA.

26 So the preferred alternatives for sites 3 and 6A,
27 where there's a groundwater issue to be addressed, we conclude
28 that alternative four, a combined approach, would be most

1 appropriate. This is a combination of set -- of deed
2 restrictions and groundwater monitoring.

3 For sites 4 and 5, where groundwater was not an
4 issue, alternative to just institutional control, which are deed
5 restrictions, which is what emerged as the alternative.

6 MS. (member of audience): Do you have any -- as to
7 deed restrictions --

8 LEE SANDERS: We need to hold the questions to the
9 end because of the --

10 MS. (member of the audience): Oh, I'm sorry.

11 LEE SANDERS: -- court reporter.

12 MS. (member of the audience): Oh, I'm sorry.

13 PHILIP JAGUCKI: Once we have identified a
14 Preferred Alternative, we also want to look at a few other
15 things to make sure that this complies with the regulations.
16 These are also CERCLA requirements. And the first is, that the
17 Remedial Alternative be protective of human health in the
18 environment, and also it comply with applicable regulations,
19 relevant regulations that would apply to these sites. The
20 alternative should also be cost effective.

21 The last two bullets on here, really, what
22 they're -- what these imply is that the regulations state
23 alternatives for a remedial action that eliminates
24 contamination, whether it's through treatment or destruction of
25 the contaminants, if that's practicable. Or if you have another
26 justification for not doing that, that's also acceptable within
27 the regulatory framework, and can be presented as a remedial
28 alternative, either deed restrictions or groundwater monitoring

1 will be to remove or destroy contaminates.

2 What we're supporting that conclusion with, those
3 Preferred Alternatives with justification for identifying those,
4 is that the risk assessment was completed, and determined that
5 there was -- the risk was in a -- was within management and
6 acceptable management range. And the risk assessment was based
7 on industrial site use, which is acceptable under CERCLA, and
8 also the industrial site use is in agreement with the base reuse
9 plan.

10 Is there anything that I can clarify before we get
11 into the questions and answers on the presentation?

12 (No audible response.)

13 PHILIP JAGUCKI: Thank you.

14 MICHELLE GALLICE: Okay. At this time we're going
15 to take comments. For everybody who would like to provide
16 comments, if you could raise your hand, you need to pronounce
17 your name clearly. If you could, please, spell your first and
18 last name as well as provide your full address. For anybody who
19 would like to provide comments in writing instead of verbally
20 this evening, there are comment sheets on the table over there
21 (indicating), you can either provide them to me or send them to
22 Lee Sanders. Whoever would like to do that, Lee Sanders is in
23 the back back there. If anybody has comments, feel free at this
24 time to raise your hand and provide those comments.

25 PAUL WARD: I got a question. The name is
26 Paul Ward, P-a-u-l, W-a-r-d, 5110 Marina Pacifica Drive South,
27 Long Beach, California.

28 The question is: Is -- the Navy is obviously

1 obligated to clean up to a standard consistent with the reuse
2 plan; is that correct?

3 THOMAS MACCHIARELLA: We're not here to answer any
4 questions.

5 PAUL WARD: You're not?

6 MICHELLE GALLICE: You can ask as many questions as
7 you like, we'll take those down, the Navy will respond to those
8 and provide them back to you.

9 PAUL WARD: So no questions and answers?

10 MICHELLE GALLICE: That's not correct, there's no
11 answers.

12 THOMAS MACCHIARELLA: Tonight's opportunity is not
13 a dialogue but a receipt. The Navy will receive the comments
14 and address those comments as I described earlier.

15 PAUL WARD: So the question is: I assume the
16 restrictions -- the deed restrictions will be consistent with
17 the construction and operation of a container terminal as a
18 reuse plan foresees?

19 MICHELLE GALLICE: Anybody else have any comments?

20 (No audible response.)

21 MICHELLE GALLICE: Okay. Then, I guess we'll
22 officially close the comment period.

23 Thomas?

24 THOMAS MACCHIARELLA: We'll take another look at
25 these. I'm pretty sure that concludes everything.

26 We don't have nothing left but to adjourn. Thank
27 you everybody for coming.

28 (Whereupon the proceedings adjourned at 7:32 p.m.)

1 I, LISA A.M. TOOR, Certified Shorthand Reporter for the State of
2 California do hereby certify:

3

4

5 That the foregoing excerpt portions were reported by me
6 stenographically and later transcribed into typewriting under my
7 direction; that the foregoing is a true record of the
8 proceedings taken at that time.

9

10 IN WITNESS WHEREOF, I have subscribed my name this


11 8th day of June, 1998,

12 at San Diego, California.

13

14

15



LISA A.M. TOOR
C.S.R. No. 8405

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APPENDIX D
CHRONOLOGICAL ADMINISTRATIVE RECORD FILE INDEX

TOTAL RECORDS PRINTED:

85

REPORT SPECIFICATION FOR: RPT233

TITLE: NAVAL STATION LONG BEACH ADMINISTRATIVE RECORD FILE SITE 5

FILE: COMBINED Key Info. with Activity File

SELECTION CRITERIA:

[01] Site No. CONTAINS "5" & UIC.No. IS "N68311 "

SORT CRITERIA:

01 Doc. Date

PAGE BREAK LEVEL:

00 NO PAGEBREAK

TYPE REPORT FORM

PAPER COMBO KEY INFO(master activity rpt form)

DATE - 10/05/98

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NAVAL STATION LONG BEACH ADMINISTRATIVE RECORD FILE SITE 6A

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APPROX.#.OF.PAGES	EPA.CAT#	TO.SIGNATURE.....							
N68311 LTR 0000000000000000 0002	000180 00000 02.0	08/30/94 D.W. RICE NAVSTA/NSY LB	WORLDPORT LA	NAVSTA LONG BEACH COMMENTS TO SITE 6A REMOVAL SITE EVALUATION (RSE) REPORT	ADMIN RECORD	COMMENTS GW RA DATA RISK	6A	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0001	000498 00000 01.1	10/06/94 R. DAVIDSON NAVSTA LONG BEACH	PARSONS BRINCKERHOFF	NAVSTA LONG BEACH SEASIDE AVENUE/NAVY WAY SCHEDULE	ADMIN RECORD		6A	SOUTHWEST DIVISION	
N68311 RPT N6871189D9296 0012	000062 07/03/91 00017 03.3	08/24/94 NAVSTA LONG BEACH	SOUTHWEST DIVISION	NAVSTA/NSY LONG BEACH INSTALLATION RESTORATION PROGRAM (IRP) RESPONSE TO CA DEPARTMENT OF HEALTH SERVICES REVIEW COMMENTS ON THE SITE INSPECTION (SI) WORK PLAN	ADMIN RECORD	SI RCRA PERMIT IRP COMMENTS	1 2 4 5 6A 9 10 13	SOUTHWEST DIVISION	
N68311 CLTR N6871189D9296 0001	000063 07/23/91 00017 03.3	08/24/94 J.L. SNYDER RWQCB J. ROSS	NAVSTA LONG BEACH	NAVSTA/NSY LONG BEACH FINAL REVISED IR PROGRAM SI WORKPLAN & CA DHS COMMENTS & RCRA CROSS REF (SEE DOC NO 000062 FOR COMMENTS)(SEE DOC 246 FOR SI WORKPLAN)	ADMIN RECORD	RCRA SI PERMIT COMMENTS IRP	1 2 4 5 6A 9 10 13	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0002	000557 11/05/92 00000 01.1	10/10/94 W.M. ROBINSON A.B. GOODWIN	SOUTHWEST DIVISION	NAVSTA LONG BEACH EVALUATION OF REQUEST TO USE NAVY LAND ADJACENT TO SEASIDE AVENUE IN CONNECTION WITH PROPOSED PROJECTS ON PIER 300	ADMIN RECORD	HAZ WASTE PERMIT SWMU CERCLA VOC SB GW	6A	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0002	000503 11/10/92 00000 01.1	10/06/94 W.M. ROBINSON NAVSTA LONG BEACH	SOUTHWEST DIVISION	NAVSTA LONG BEACH EXCESS SEASIDE BLVD PARCEL AND PORT OF LOS ANGELES INTEREST (MISSING ENCL 11/05/92 A.B. GOODWIN LTR)	ADMIN RECORD	FOSL FOT CERCLA BRAC	6A	SOUTHWEST DIVISION	
N68311 FAX 0000000000000000 0002	000517 02/16/93 00000 01.1	10/06/94 R. CALLAWAY A.M. MUCKERMAN	NAVSTA LONG BEACH	NAVSTA LONG BEACH PORT OF LA USE OF SITE 6A	CONFIDENTIAL DOC ADMIN RECORD	CERCLA REMOVAL RCRA SI RFI EE\CA EBST FOT	6A	SOUTHWEST DIVISION	

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NAVAL STATION LONG BEACH ADMINISTRATIVE RECORD FILE SITE 6A

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N68311 FAX 000000000000000 0002	000516	10/06/94 02/19/93 00000 01.1	SOUTHWEST DIVISION L.M. GELDNER DISTRIBUTION	NAVSTA LONG BEACH PORT OF LA USE OF SITE 6A	CONFIDENTIAL DOC ADMIN RECORD	REMOVAL NCP EE\CA PERMIT NPL RI FS	6A	SOUTHWEST DIVISION			
N68311 MISC 000000000000000 0006	000515	10/06/94 03/16/93 00000 01.1	R. CALLAWAY	NAVSTA LONG BEACH LEGAL AND PROCEDURAL ISSUES RAISED BY PORT OF LOS ANGELES (POLA) ACCESS TO SITE 6A "PRIVILEGED AND CONFIDENTIAL"	CONFIDENTIAL DOC ADMIN RECORD	RCRA CERCLA PERMIT HAZ WASTE FFSRA RA SI PRP MONITORING WELLS	6A	SOUTHWEST DIVISION			
N68311 MISC 000000000000000 0005	000518	10/06/94 03/22/93 00000 01.1	R. CALLAWAY	NAVSTA LONG BEACH DOWN POSITION FOR 03/26/93 MEETING WITH DTSC POLA REGARDING SITE 6A "PRIVILEGED AND CONFIDENTIAL"	CONFIDENTIAL DOC ADMIN RECORD	REMOVAL CERCLA RA ACTMEMO FOSL COST	6A	SOUTHWEST DIVISION			
N68311 RPT 000000000000000 0009	000104	08/25/94 03/29/93 00000 01.1	1823.AM	NAVSTA LONG BEACH MEETINGS WITH PORT OF LOS ANGELES (POLA) AND THE DEPARTMENT OF TOXIC SUBSTANCES CONTROL (DTSC) RE: PIER 300 PROJECT	ADMIN RECORD	REMOVAL TRC CRP	6A	SOUTHWEST DIVISION			
N68311 FAX 000000000000000 0005	000346	09/29/94 03/29/93 00000 02.0	SOUTHWEST DIVISION A. MUCKERMAN J.L. SNYDER	NAVSTA LONG BEACH SOUTHWEST DIVISION'S RECOMMENDED LEGAL APPROACH REGARDING SITE 6A AND POLICY MEMO ON REMOVAL ACTIONS (SEE DOC. NO. 000104 FOR MTG. MINUTES)	CONFIDENTIAL DOC ADMIN RECORD	REMOVAL CERCLA FOSL SI COST HAZ WASTE NCP	6A	SOUTHWEST DIVISION			
N68311 LTR 000000000000000 0005	000354	09/29/94 05/14/93 00000 01.1	DTSC M.S. SANDHU NAVSTA LONG BEACH J.L. SNYDER	NAVSTA LONG BEACH RCRA CORRECTIVE ACTION: PROPOSED INTERIM AND PERMANENT REUSE OF SITE 6 FOR PORT OF LOS ANGELES 'PIER 300' PROJECT	ADMIN RECORD	RCRA CEQA RI FS NCP	6A	SOUTHWEST DIVISION			
N68311 MEMO 000000000000000 0001	000613	11/01/94 05/18/93 00000 01.1	NSY LONG BEACH A. ULASZEWSKI FILE	NAVSTA LONG BEACH IR SITE 6A CONSTRUCTION OF A RR TO SERVICE PIER 300	ADMIN RECORD	CHAR RCRA PERMIT RISK	6A	SOUTHWEST DIVISION			

UIC No.	DOC.NO.	PRC.DATE	FROM.....	NAVAL STATION LONG BEACH ADMINISTRATIVE RECORD FILE SITE 6A	CLASSIFICATION	KEY WORDS	...Site...Location.....
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N68311 000363 LTR 0000000000000000 0004	09/29/94 06/10/93 00000 04.3	DTSC D.R. REGE SOUTHWEST DIVISION A. HURT	NAVSTA/NSY LONG BEACH DRAFT COMMENTS RESOLUTION MEETING FOR RCRA CORRECTIVE ACTION RFI AND INSTALLATION RESTORATION PROGRAM (IRP) RI/FS WORKPLANS	ADMIN RECORD	RCRA RFI IRP RI FS TRC COMMENTS	6A	SOUTHWEST DIVISION	
N68311 000364 MEMO 0000000000000000 0004	10/03/94 06/10/93 00000 01.1	SOUTHWEST DIVISION K. DE MANE SOUTHWEST DIVISION A. LEE	NAVSTA LONG BEACH PROPOSED RESPONSE TO DTSC LETTER DATED 05/14/93 REGARDING SITE 6A "PRIVILEGED AND CONFIDENTIAL"	CONFIDENTIAL DOC ADMIN RECORD	REMOVAL CERCLA ACTMEMO CEQA ARAR	6A	SOUTHWEST DIVISION	
N68311 000115 MEMO 0000000000000000 0011	08/26/94 06/14/93 00000 04.3	CODE 1852.CL C. LEADON CODE 1832.JJ J. JOYCE	NAVSTA/NSY LONG BEACH TECHNICAL REVIEWS OF THE DRAFT RI/FS WORK PLANS, DRAFT PRELIMINARY ASSESSMENT FOR SITE 6B AND DRAFT SITE MANAGEMENT PLAN	ADMIN RECORD	RI FS PA SMP IRA ARAR COMMENTS	6B 6A 1 2 4 7	SOUTHWEST DIVISION	
N68311 000529 FAX 0000000000000000 0003	10/06/94 06/24/93 00027 02.0	CH2M HILL P. TORREY SOUTHWEST DIVISION A. LEE	NAVSTA LONG BEACH DISCUSSION OF REQUIREMENTS FOR REMOVAL SITE EVALUATION (RSE) FOR SITE 6A	ADMIN RECORD CONFIDENTIAL DOC	REMOVAL SI PA RI FS CERCLA DRUMS LEAK RA	6A	SOUTHWEST DIVISION	
N68311 000616 MEMO 0000000000000000 0002	11/01/94 07/13/93 00000 01.1	SNYDER KLEVEN	NAVSTA LONG BEACH RELOCATION OF DRMO BY FEBRUARY 1994	ADMIN RECORD		6A	SOUTHWEST DIVISION	
N68311 000371 MM 0000000000000000 0002	10/03/94 07/14/93 00249 10.5	JACOBS ENGINEERING K. BREWER	NAVAL COMPLEX LONG BEACH DISCUSSION OF PUBLIC MEETING BEING HELD 07/14/93 (HELD 07/07/93)	ADMIN RECORD	CRP	6A 11	SOUTHWEST DIVISION	
N68311 000492 LTR 0000000000000000 0004	10/06/94 07/19/93 00000 01.1	WORLDPORT LA D.W. RICE	NAVAL COMPLEX LONG BEACH SITE 6A 06/18/93 MEETING MINUTES	ADMIN RECORD	SB REMOVAL CEQA EIA	6A	SOUTHWEST DIVISION	
N68311 000530 CLTR N6871192D4670 0003	10/06/94 08/05/93 00027 02.0	BECHTEL NATIONAL K. KAPUR DISTRIBUTION	NAVSTA LONG BEACH KICKOFF MEETING AGENDA FOR REMOVAL SITE EVALUATION (RSE) PLAN FOR SITE 6A	ADMIN RECORD	REMOVAL	6A	SOUTHWEST DIVISION	

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N68311 FAX 0000000000000000 0002	000514 08/12/93 00000 01.1	10/06/94	SOUTHWEST DIVISION K. DE MANE J.L. WELLS	NAVSTA LONG BEACH ISSUES TO BE DISCUSSED WITH POLA REGARDING SITE 6A	ADMIN RECORD CONFIDENTIAL DOC	REMOVAL BRAC DERA GW	6A	SOUTHWEST DIVISION
N68311 FAX 0000000000000000 0001	000511 08/23/93 00000 02.0	10/06/94	SOUTHWEST DIVISION L.M. GELDNER SOUTHWEST DIVISION A. LEE	NAVSTA LONG BEACH COMMENTS ON DRAFT REMOVAL SITE EVALUATION FOR SITE 6A	ADMIN RECORD	COMMENTS REMOVAL	6A	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0002	000378 08/26/93 00000 02.0	10/03/94	NAVSTA LONG BEACH J.L. SNYDER SOUTHWEST DIVISION A. LEE	NAVSTA LONG BEACH COMMENTS TO DRAFT REMOVAL SITE EVALUATION PLAN FOR SITE 6A	ADMIN RECORD	REMOVAL COMMENTS QAPP SAP SB QA	6A	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0002	000379 08/26/93 00000 01.1	10/03/94	NAVSTA LONG BEACH J.L. SNYDER SOUTHWEST DIVISION A. LEE	NAVSTA LONG BEACH COMMENTS TO DRAFT HEALTH AND SAFETY PLAN FOR SITE 6A	ADMIN RECORD	H&SP COMMENTS	6A	SOUTHWEST DIVISION
N68311 MM 0000000000000000 0003	000528 08/26/93 00027 02.0	10/06/94		NAVSTA LONG BEACH SITE 6A WORKSHOP REMOVAL SITE EVALUATION PLAN	ADMIN RECORD	REMOVAL RA CEQA RISK TRC	6A	SOUTHWEST DIVISION
N68311 FAX 0000000000000000 0001	000510 08/27/93 00000 01.1	10/06/94	SOUTHWEST DIVISION A. LEE SOUTHWEST DIVISION M.K. DE MANE	NAVSTA LONG BEACH SITE 6A MEETING REGARDING CEQA REQUIREMENTS, FOSL/FOST AND PUBLIC PARTICIPATION	ADMIN RECORD CONFIDENTIAL DOC	CEQA FOSL FOST	6A	SOUTHWEST DIVISION
N68311 MEMO N6871192D4670 0004	000509 09/01/93 00027 01.1	10/06/94	J.A. CORBETT CODE 1853.CL	NAVSTA LONG BEACH REVIEW OF DRAFT HEALTH AND SAFETY PLAN FOR SITE 6A	ADMIN RECORD	COMMENTS MONITORING RI FS HAZ WASTE	6A	SOUTHWEST DIVISION
N68311 MEMO 0000000000000000 0002	000615 09/01/93 00000 01.1	11/01/94	CODE 440 S. HALL NAVSTA LONG BEACH	NAVSTA LONG BEACH COMMENTS TO RELOCATION OF DRMO SCRAPYARD TO ACCOMMODATE THE PORT OF LA CLEANUP OF SITE 6A	ADMIN RECORD	COMMENTS	6A	SOUTHWEST DIVISION

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NAVAL STATION LONG BEACH ADMINISTRATIVE RECORD FILE SITE 6A

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N68311	000380	10/03/94	DTSC	NAVSTA/NSY LONG BEACH COMMENTS TO DRAFT SUPP RCRA	ADMIN RECORD	RCRA	6A	SOUTHWEST DIVISION
LTR		09/02/93	D.R. REGE	FACILITY INVESTIGATION WORKPLAN AND INTERIM		RFI		
0000000000000000	00000		NAVSTA/NSY LB	CORRECTIVE MEASURE EVALUATION WORKPLAN FOR SITE 6A		HAZ WASTE		
0017	03.3					PERMIT		
						RI		
						FS		
						RA		
						DMP		
						H&SP		
						QC		
						COMMENTS		
N68311	000507	10/06/94	SOUTHWEST DIVISION	NAVSTA LONG BEACH REQUEST FOR ASSISTANCE IN	ADMIN RECORD	IRP	6A	SOUTHWEST DIVISION
LTR		09/02/93	R.F. KIESLING	IDENTIFYING STEPS TO BE FOLLOWED FOR LEASING PARCEL		COST		
0000000000000000	00000		POLA	OF LAND AT SEASIDE AVENUE/NAVY WAY		REMOVAL		
0003	02.0		E. BURTS			BRAC		
						NEPA		
						CERCLA		
						HAZ WASTE		
						PERMIT		
N68311	000508	10/06/94	SOUTHWEST DIVISION	NAVSTA LONG BEACH SITE 6A SAMPLING	CONFIDENTIAL DOC		6A	SOUTHWEST DIVISION
FAX		09/02/93	M.K. DE MANE		ADMIN RECORD			
0000000000000000	00000		SOUTHWEST DIVISION					
0001	02.0		A. LEE					
N68311	000497	10/06/94	PARSONS BRINCKERHOFF	NAVSTA LONG BEACH PROPOSED INTERIM AND PERMANENT USE	ADMIN RECORD	SI	6A	SOUTHWEST DIVISION
LTR		09/07/93	K.A. HABOIAN	OF SITE 6A FOR THE POLA SEASIDE AVENUE/NAVY WAY		SB		
0000000000000000	00000		DTSC	PROJECT		RI		
0003	01.1		M.S. SANDHU			FS		
						MONITORING		
						WELLS		
						REMOVAL		
N68311	000526	10/06/94		NAVSTA LONG BEACH PROJECT REVIEW MEETING SITE 6A	ADMIN RECORD	REMOVAL	6A	SOUTHWEST DIVISION
MM		09/08/93		REMOVAL SITE EVALUATION PLAN				
0000000000000000	00027							
0002	02.0							
N68311	000506	10/06/94	SOUTHWEST DIVISION	NAVSTA LONG BEACH REVIEW OF DRAFT REMOVAL SITE	ADMIN RECORD	REMOVAL	6A	SOUTHWEST DIVISION
MEMO		09/09/93	J.A. CORBETT	EVALUATION PLAN FOR SITE 6A				
0000000000000000	00000		BECHTEL NATIONAL					
0001	02.0		A. GESSESSE					
N68311	000288	09/21/94	BECHTEL NATIONAL	NAVSTA LONG BEACH SITE-SPECIFIC HEALTH AND SAFETY PLAN	ADMIN RECORD	H&SP	6A	SOUTHWEST DIVISION
RPT		09/10/93				HA		
N687119204670		00027	SOUTHWEST DIVISION			MONITORING		
0200	01.1					HAZ WASTE		
						SOP		

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NAVAL STATION LONG BEACH ADMINISTRATIVE RECORD FILE SITE 6A

UIC No.	DOC.NO.	PRC.DATE	FROM.....	NAVAL STATION LONG BEACH ADMINISTRATIVE RECORD FILE SITE 6A	CLASSIFICATION	KEY WORDS	...Site...Location.....
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N68311	000381	10/03/94	NAVSTA LONG BEACH	NAVSTA LONG BEACH PROPOSED ROUTING OF THE TEMPORARY	ADMIN RECORD	REMOVAL	6A	SOUTHWEST DIVISION
LTR		09/10/93	J.L. SNYDER	SEASIDE AVENUE DETOUR				
0000000000000000	00000		DTSC					
0001	01.1		C. O'ROURKE					
N68311	000126	08/26/94	NAVSTA LONG BEACH	NAVSTA LONG BEACH FINAL REMOVAL SITE EVALUATION (RSE)	ADMIN RECORD	H&SP	6A	SOUTHWEST DIVISION
CLTR		09/13/93	J.L. SNYDER	WORK PLAN CTO-027/SITE 6A	INFO REPOSITORY	IRP		
N6871192D4670		00027	DISTRIBUTION			HAZMAT		
0170	02.0					HAZ WASTE		
						CERCLA		
						SARA		
						RCRA		
						PERMIT		
						REMOVAL		
N68311	000284	09/21/94	SOUTHWEST DIVISION	NAVSTA LONG BEACH INSTALLATION RESTORATION PROGRAM	ADMIN RECORD	GW	1	SOUTHWEST DIVISION
RPT		09/13/93		(IRP) REMEDIAL INVESTIGATION/FEASIBILITY STUDY	INFO REPOSITORY	SAP	2	
N6871189D9296		00249		(RI/FS) FINAL SAMPLING AND ANALYSIS PLAN (SAP)		PERMIT	3	
0400	03.1					WMP	4	
						DMP	5	
						WELLS	6A	
						MONITORING	7	
						QA		
						SB		
						H&SP		
						RI		
						FS		
						QC		
						QAPP		
N68311	000527	10/06/94		NAVSTA LONG BEACH CONFERENCE CALL REGARDING NUMBER OF	ADMIN RECORD	REMOVAL	6A	SOUTHWEST DIVISION
TEL		09/15/93		SAMPLING POINTS FOR SITE 6A RSE ACTIVITIES				
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0004	02.0							
N68311	000384	10/03/94	DTSC	NAVSTA LONG BEACH PUBLIC PARTICIPATION FOR CORRECTIVE	ADMIN RECORD	RCRA	6A	SOUTHWEST DIVISION
LTR		09/17/93	C. BEST	ACTION ACTIVITIES AT SITE 6A		CERCLA		
0000000000000000	00000		NAVSTA LONG BEACH			NCP		
0006	10.0		J. SNYDER			REMOVAL		
						TRC		
						CRP		
N68311	000385	10/03/94		NAVSTA LONG BEACH PROJECT REVIEW MEETING REMOVAL SITE	ADMIN RECORD	REMOVAL	6A	SOUTHWEST DIVISION
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0005	02.0					SI		
						RCRA		
						CCPF		
						CEQA		
						NEPA		

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NAVAL STATION LONG BEACH ADMINISTRATIVE RECORD FILE SITE 6A

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N68311 LTR N6871192D4670 0007	000493	10/06/94 09/22/93 00027 02.0	BECHTEL NATIONAL K. KAPUR SOUTHWEST DIVISION A. LEE		NAVSTA LONG BEACH AMENDMENTS TO FINAL REMEDIAL SITE EVALUATION (RSE) PLAN		ADMIN RECORD	COMMENTS REMOVAL	6A	SOUTHWEST DIVISION	
N68311 MEMO 0000000000000000 0003	000387	10/03/94 09/23/93 00000 10.0	SOUTHWEST DIVISION K. DE MANE SOUTHWEST DIVISION A. LEE		NAVSTA LONG BEACH COMMENTS ON DTSC LETTER OF 09/17/93 TO J.L. SNYDER PUBLIC PARTICIPATION FOR CORRECTIVE ACTION ACTIVITIES AT SITE 6A		CONFIDENTIAL DOC ADMIN RECORD	COMMENTS CRP	6A	SOUTHWEST DIVISION	
N68311 MEMO 0000000000000000 0004	000505	10/06/94 09/27/93 00000 01.1	SOUTHWEST DIVISION K. DE MANE CODE 60C		NAVSTA LONG BEACH SITE 6A LEASE RELATED NEPA AND FOSL ISSUES		CONFIDENTIAL DOC ADMIN RECORD	NEPA FOSL CEQA EIS EA FONSI BRAC	6A	SOUTHWEST DIVISION	
N68311 FAX 0000000000000000 0001	000504	10/06/94 10/04/93 00000 01.1	SOUTHWEST DIVISION M.K. DE MANE J.L. WELLS		NAVSTA LONG BEACH ADDITIONAL QUESTIONS REGARDING SITE 6A		ADMIN RECORD CONFIDENTIAL DOC		6A	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0004	000494	10/06/94 10/05/93 00000 01.1	M.A. LEMKE SOUTHWEST DIVISION L. GELDNER		NAVSTA LONG BEACH USE OF NAVY PROPERTY ON TERMINAL ISLAND SITE 6A		ADMIN RECORD	COST H&SP	6A	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0004	000522	10/06/94 10/05/93 00000 01.1	WORLDPORT LA M.A. LEMKE SOUTHWEST DIVISION L.GELDNER		NAVSTA LONG BEACH PORT OF LOS ANGELES USE OF NAVY PROPERTY ON TERMINAL ISLAND SITE 6A		ADMIN RECORD	COST H&SP SB	6A	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0003	000394	10/03/94 10/20/93 00000 01.1	NAVSTA LONG BEACH J.L. SNYDER C. O'ROURKE		NAVSTA/NSY LONG BEACH REQUIREMENT TO RELOCATE THE DRMO SCRAP YARD FROM NAVSTA SITE 6A TO NSY SITE 12		ADMIN RECORD		6A 12	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0004	000569	10/10/94 10/21/93 00000 03.3	DTSC D.R. REGE NAVSTA/NSY LB		NAVSTA/NSY LONG BEACH COMMENTS TO FINAL SUPPLEMENTAL RCRA FACILITY INVESTIGATION (RFI) WORKPLAN & INTERIM CORRECTIVE MEASURE EVAL WORKPLAN		ADMIN RECORD	RFI RCRA COMMENTS PERMIT HAZ WASTE RI FS	6A	SOUTHWEST DIVISION	
N68311 MM 0000000000000000 0005	000400	10/03/94 11/10/93 00015 04.3			NAVSTA/NSY LONG BEACH RSE & RI/FS MONTHLY MEETING FOR CTO'S 15,16,26,27,28		ADMIN RECORD	RI FS REMOVAL SI RFI TPH PCB	6A	SOUTHWEST DIVISION	

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N68311 000400 continued

N68311	000406	10/03/94	NAVSTA LONG BEACH	NAVSTA/NSY LONG BEACH RELOCATION OF THE DEFENSE	ADMIN RECORD	RI	6A	SOUTHWEST DIVISION
LTR		12/03/93	T. ERICKSON	REUTILIZATION MANAGEMENT OFFICE (DRMO) SCRAP YARD		FS	12	
0000000000000000		00000	DTSC					
0001		01.1	A. ARELLANO					
N68311	000617	11/01/94	NSY LONG BEACH	NAVSTA/NSY LONG BEACH ISSUES AND POSSIBLE STRATEGIES	ADMIN RECORD	CHAR	6A	SOUTHWEST DIVISION
MISC		12/09/93	A. ULASZEWSKI	REGARDING THE RELOCATION OF DRMO TO SHIPYARD IR SITE		DRUMS	12	
0000000000000000		00000		12		RI		
0002		01.1				HAZ WASTE		
						EA		
						FONSI		
						CEQA		
						NEPA		
N68311	000614	11/01/94	CODE 106.3	NAVSTA/NSY LONG BEACH RELOCATION OF DRMO TO IR SITE	ADMIN RECORD	RI	6A	SOUTHWEST DIVISION
MEMO		12/10/93		12 (HARD TO READ)		FS	12	
0000000000000000		00000	CODE 400			COST		
0001		00.0						
N68311	000532	10/06/94	BECHTEL NATIONAL	NAVSTA LONG BEACH ESTABLISH CLEANUP LEVELS FOR TPH	ADMIN RECORD	TPH	6A	SOUTHWEST DIVISION
TEL		12/13/93	A. GESSESSE	AND COMPARE FINDINGS OF SOIL SAMPLING ACTIVITY FOR				
0000000000000000		00027	DTSC/RWQCB	SITE 6A				
0001		02.0						
N68311	000411	10/03/94	NAVSTA LONG BEACH	NAVSTA/NSY LONG BEACH DRMO MOVE MEETING DATED	ADMIN RECORD	HAZ WASTE	6A	SOUTHWEST DIVISION
MISC		12/17/93	D. ROLLEFSON	12/17/93 (HANDWRITTEN NOTES)		REMOVAL	12	
0000000000000000		00000	FILE			H&SP		
0004		01.1						
N68311	000140	08/29/94	BECHTEL NATIONAL	NAVAL COMPLEX LONG BEACH DRAFT INVESTIGATION DERIVED	ADMIN RECORD	IDWMP	1	SOUTHWEST DIVISION
RPT		12/18/93	K. KAPUR	WASTE (IDW) MANAGEMENT PLAN CTO-0015,0016,0026		RI	2	
N6871192D4670		00015				FS	3	
0005		03.0				GW	4	
						LAB	5	
							6A	
							7	
N68311	000141	08/29/94	BECHTEL NATIONAL	NAVSTA LONG BEACH DRAFT RISK ASSESSMENT WORK PLAN	ADMIN RECORD	RA	1	SOUTHWEST DIVISION
RPT		12/18/93	K. KAPUR	REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)		FS	2	
N6871192D4670		00015		SITES 1,2,3,4,5,6A AND 7		IRP	3	
0053		04.3				CERCLA	4	
						SARA	5	
						HAZ WASTE	6A	
						DERA	7	
						RCRA		

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N68311 000141 continued

				RA				
N68311	000500	10/06/94	NAVSTA/NSY LONG BEACH POLA SEASIDE AVENUE/NAVY WAY	ADMIN RECORD	EIS	6A	SOUTHWEST DIVISION	
FAX		12/21/93	K.R. BARRE	CONFIDENTIAL DOC	TANK			
0000000000000000		00000			WATER			
0002		01.1	K. KESLER		RI			
					FS			
N68311	000145	08/29/94	NAVSTA LONG BEACH	ADMIN RECORD	H&SP	6	SOUTHWEST DIVISION	
LTR		12/23/93	T. ERICKSON		HAZ WASTE	12		
0000000000000000		00000	EPA			6A		
0002		01.1	A. GUTIERREZ					
N68311	000147	08/29/94	NAVSTA LONG BEACH	ADMIN RECORD	TECH MEMO	1	SOUTHWEST DIVISION	
LTR		12/28/93	T.S. ERICKSON		COMMENTS	2		
0000000000000000		00000	SOUTHWEST DIVISION			3		
0001		01.1	A.K. LEE			6A		
N68311	000148	08/29/94	DTSC	ADMIN RECORD	IRP	6A	SOUTHWEST DIVISION	
LTR		01/04/94	A. ARELLANO		CEQA			
0000000000000000		00000	NAVSTA/NSY LB		EIA			
0004		01.1			PROPOSAL			
					RCRA			
					COMMENTS			
N68311	000412	10/03/94	NAVSTA/NSY LONG BEACH MONTHLY PROGRESS MEETING FOR	ADMIN RECORD	RI	6A	SOUTHWEST DIVISION	
MM		01/06/94	CTO'S 15,16,26,27,28 REGARDING RI/FS, RSE AND SI		FS			
0000000000000000		00000	ACTIVITIES AND FACILITYWIDE INVESTIGATION		SI			
0005		04.3			RA			
					LAB			
N68311	000533	10/06/94	BECHTEL NATIONAL	ADMIN RECORD	REMOVAL	6A	SOUTHWEST DIVISION	
CLTR		01/06/94	K. KAPUR		QC			
N687119204670		00027	SOUTHWEST DIVISION		SB			
0450		02.0	A. LEE		LAB			
					QA			
					RISK			
					CHAR			
					RI			
					FS			
N68311	000413	10/03/94	DTSC	ADMIN RECORD	RI	6A	SOUTHWEST DIVISION	
LTR		01/11/94	A.A. ARELLANO		FS	12		
0000000000000000		00000	NAVSTA LONG BEACH		HAZ WASTE			
0003		01.1	T. ERICKSON					
N68311	000519	10/06/94	SOUTHWEST DIVISION	CONFIDENTIAL DOC	REMOVAL	6A	SOUTHWEST DIVISION	
MEMO		01/11/94	K. DE MANE	ADMIN RECORD	EBS			
0000000000000000		00000	SOUTHWEST DIVISION		CERCLA			
0004		02.0	A. LEE		IRP			
					PERMIT			

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N68311 FAX 0000000000000000 0001	000502 01/12/94 00000 02.0	10/06/94 01/12/94 00000 02.0	SOUTHWEST DIVISION A. LEE DISTRIBUTION	NAVSTA LONG BEACH MEETING ON PROPOSED REMOVAL ACTION FOR SITE 6A	ADMIN RECORD	REMOVAL BRAC	6A	SOUTHWEST DIVISION	
N68311 LTR N6871192D4670 0002	000150 01/13/94 00027 02.0	08/29/94 01/13/94 00027 02.0	NAVSTA LONG BEACH T.S. ERICKSON SOUTHWEST DIVISION A.K. LEE	NAVSTA LONG BEACH PREDRAFT REMOVAL SITE EVALUATION REPORT FOR SITE 6A (COMMENTS)	ADMIN RECORD	REMOVAL COMMENTS	6A	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0002	000151 01/13/94 00000 10.0	08/29/94 01/13/94 00000 10.0	NAVSTA LONG BEACH T.S. ERICKSON SOUTHWEST DIVISION A.K. LEE	NAVSTA LONG BEACH FINAL CERFA ENVIRONMENTAL BASELINE SURVEY (EBS) (COMMENTS)	ADMIN RECORD	EBS RI FS UST TANK COMMENTS	2 4 6A 6B	SOUTHWEST DIVISION	
N68311 MISC 0000000000000000 0002	000520 01/14/94 00000 01.1	10/06/94 01/14/94 00000 01.1	SOUTHWEST DIVISION K. DE MANE SOUTHWEST DIVISION A. LEE	NAVSTA LONG BEACH SITE 6A "PRIVILEGED AND CONFIDENTIAL"	CONFIDENTIAL DOC ADMIN RECORD	REMOVAL ACTMEMO IRP	6A	SOUTHWEST DIVISION	
N68311 CLTR N6871192D4670 0403	000260 01/17/94 00027 02.0	09/08/94 01/17/94 00027 02.0	BECHTEL NATIONAL K. KAPUR SOUTHWEST DIVISION D. WILSON	NAVSTA LONG BEACH DRAFT REMOVAL SITE EVALUATION REPORT FOR SITE 6A	ADMIN RECORD	REMOVAL LAB SB RI FS	6A	SOUTHWEST DIVISION	
N68311 RPT N6871192D4670 0018	000155 01/24/94 00015 01.1	08/29/94 01/24/94 00015 01.1	BECHTEL NATIONAL K. KAPUR	NAVSTA LONG BEACH DRAFT TECHNICAL MEMORANDUM AERIAL PHOTOGRAPHY REVIEW AND GEOPHYSICAL RECOMMENDATIONS	ADMIN RECORD	TECH MEMO RI FS SAP OU	1 2 3 6A	SOUTHWEST DIVISION	
N68311 LTR N6871192D4670 0004	000495 01/26/94 00027 02.0	10/06/94 01/26/94 00027 02.0	EPA S.L. LAUTH NAVSTA LONG BEACH T.S. ERICKSON	NAVSTA LONG BEACH REVIEW OF THE DRAFT REMOVAL SITE EVALUATION REPORT FOR SITE 6A	ADMIN RECORD	REMOVAL RI FS HAZ WASTE TPH PCB	6A	SOUTHWEST DIVISION	
N68311 MEMO 0000000000000000 0001	000535 01/27/94 00027 02.0	10/06/94 01/27/94 00027 02.0	BECHTEL NATIONAL K. KAPUR SOUTHWEST DIVISION A. LEE	NAVSTA LONG BEACH RESOLUTION OF HEXAVALENT CHROMIUM SITE 6A RSE WORKSHOP	ADMIN RECORD	REMOVAL RA	6A	SOUTHWEST DIVISION	
N68311 RPT N6871192D4670 0016	000158 01/30/94 00015 04.3	08/29/94 01/30/94 00015 04.3	BECHTEL NATIONAL K. KAPUR	NAVSTA LONG BEACH FINAL TECHNICAL MEMORANDUM PROPOSED MODIFICATION TO FINAL REMEDIAL INVESTIGATION FEASIBILITY STUDY RI/FS PLAN	ADMIN RECORD	TECH MEMO RI FS WELLS GW	4 6A 7	SOUTHWEST DIVISION	

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N68311 RPT N6871192D4670 0051	000160 01/30/94 00015 03.3	08/29/94 01/30/94 00015 03.3	BECHTEL NATIONAL K. KAPUR	NAVSTA LONG BEACH FINAL RISK ASSESSMENT WORK PLAN REMEDIAL INVESTIGATION/FEASIBILITY STUDY SITES 1,2,3,4,5,6A AND 7	ADMIN RECORD	RA RI FS DATA GW CHAR IRP CERCLA SARA DERA DERA RCRA	1 2 3 4 5 6A 7				SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0143	000161 01/30/94 00015 03.3	08/29/94 01/30/94 00015 03.3	BECHTEL NATIONAL K. KAPUR	NAVSTA LONG BEACH FINAL DATA MANAGEMENT PLAN FOR CTO'S 015, 016, AND 026	ADMIN RECORD	DMP DATA RI FS OU GW SB LAB WATER SAP QAPP	1 2 3 4 5 6A 7A 7B				SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0005	000163 01/30/94 00015 03.3	08/29/94 01/30/94 00015 03.3	BECHTEL NATIONAL K. KAPUR	NAVAL COMPLEX LONG BEACH FINAL INVESTIGATION DERIVED WASTE (IDW) MANAGEMENT PLAN CTO'S 0015, 0016, AND 0026	ADMIN RECORD	WELLS GW SB HAZ WASTE IDWMP	1 2 3 4 5 6A 7				SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0002	000612 01/31/94 00000 00.0	11/01/94 01/31/94 00000 00.0	SOUTHWEST DIVISION P. MCKAY NAVSTA LONG BEACH CO	NAVAL COMPLEX LONG BEACH CATEGORICAL EXCLUSION STATEMENT FOR DRMO RELOCATION	ADMIN RECORD	LAB	6A 12				SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0013	000419 02/01/94 00000 02.0	10/03/94 02/01/94 00000 02.0	DTSC A. GUTIERREZ NAVSTA/NSY LB	NAVSTA LONG BEACH COMMENTS TO DRAFT REMEDIAL SITE EVALUATION REPORT SITE 6A BOAT DISPOSAL AREA	ADMIN RECORD	COMMENTS RI GW FS LAB DATA QA NCP RCRA PERMIT	6A				SOUTHWEST DIVISION

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N68311 MEMO 0000000000000000 0003	000521	10/06/94 02/01/94 00000 02.0	SOUTHWEST DIVISION K. DE MANE SOUTHWEST DIVISION A. LEE			NAVSTA LONG BEACH RESPONSE TO DTSC AND EPA COMMENTS ON SITE 6A REMOVAL SITE EVALUATION (RSE)	CONFIDENTIAL DOC ADMIN RECORD	REMOVAL NCP ATSDR EBS FOSL HAZ WASTE RCRA PERMIT CERCLA COMMENTS	6A	SOUTHWEST DIVISION
N68311 LTR N6871192D4670 0002	000167	08/29/94 02/04/94 00015 01.1	EPA S.L. LAUTH NAVSTA/NSY LB			NAVSTA LONG BEACH REVIEW OF THE DRAFT TECHNICAL MEMORANDUM AERIAL PHOTOGRAPHY REVIEW AND GEOPHYSICAL RECOMMENDATIONS FOR SITES 1,2,3, AND 6A	ADMIN RECORD	TECH MEMO RI FS GW SB COMMENTS	1 2 3 6A	SOUTHWEST DIVISION
N68311 CLTR N6871192D4670 0004	000168	08/29/94 02/07/94 00015 01.1	DTSC A.A. ARELLANO NAVSTA/NSY LB			NAVSTA LONG BEACH REVIEW OF DRAFT TECHNICAL MEMORANDUM AERIAL PHOTOGRAPHY REVIEW AND GEOPHYSICAL RECOMMENDATIONS FOR SITES 1,2,3, AND 6A	ADMIN RECORD	TECH MEMO COMMENTS	1 2 3 6A	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0028	000421	10/03/94 02/15/94 00027 02.0	BECHTEL NATIONAL K. KAPUR SOUTHWEST DIVISION A. LEE			NAVSTA LONG BEACH COMMENTS AND RESPONSES TO DRAFT REMOVAL SITE EVALUATION REPORT AGENCY COMMENTS (CTO-027)	ADMIN RECORD	REMOVAL COMMENTS LAB GW	6A	SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0020	000169	08/30/94 02/18/94 00015 01.1	BECHTEL NATIONAL K. KAPUR			NAVSTA LONG BEACH TECHNICAL MEMORANDUM NO. 3 FINAL TECHNICAL MEMORANDUM AERIAL PHOTOGRAPHY REVIEW AND GEOPHYSICAL RECOMMENDATIONS FOR SITES 1,2,3, AND 6A	ADMIN RECORD	TECH MEMO RI FS SAP OU	1 2 3 6A	SOUTHWEST DIVISION
N68311 CLTR N6871192D4670 0027	000536	10/06/94 02/18/94 00027 02.0	BECHTEL NATIONAL K. KAPUR SOUTHWEST DIVISION A. LEE			NAVSTA LONG BEACH COMMENTS AND RESPONSES TO DRAFT REMOVAL SITE EVALUATION (RSE) REPORT AGENCY COMMENTS	ADMIN RECORD	COMMENTS REMOVAL LAB	6A	SOUTHWEST DIVISION
N68311 PLAN 0000000000000000 0315	000856	03/13/97 03/01/94 00000 03.3	NAVSTA LONG BEACH SOUTHWEST DIVISION			BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP PLAN	ADMIN RECORD	BRAC CLOSURE CLEANUP RA PCB VOC UST OU	1 2 3 4 5 6A 6B 7 OU 1 OU 2 OU 3 BLDG. 32 BLDG. 143 BLDG. 144	SOUTHWEST DIVISION

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 BLDG. 401
 BLDG. 815
 BLDG. 675

N68311	000271	09/08/94	BECHTEL NATIONAL	NAVSTA LONG BEACH FINAL REMOVAL SITE EVALUATION (RSE)	ADMIN RECORD	REMOVAL	6A	SOUTHWEST DIVISION
CLTR		03/07/94	K. KAPUR	REPORT FOR SITE 6A	INFO REPOSITORY	EBS		
N6871192D4670	00027		SOUTHWEST DIVISION			RI		
0250		02.0				FS		
N68311	000600	10/31/94		NAVSTA/NSY LONG BEACH MANAGEMENT COORDINATION MEETING	ADMIN RECORD	RI	12	SOUTHWEST DIVISION
MM		03/09/94		RELOCATION OF DRMO FACILITY TO SITE 12		FS	6A	
0000000000000000		00000				NCP		
0003		01.1				H&SP		
						ACTMEMO		
N68311	000523	10/06/94	EPA	NAVSTA LONG BEACH COMMENTS TO FINAL REMOVAL SITE	ADMIN RECORD	COMMENTS	6A	SOUTHWEST DIVISION
LTR		03/24/94	S. LAUTH	EVALUATION (RSE) FOR SITE 6A		REMOVAL		
N6871192D4670	00027		SOUTHWEST DIVISION			RI		
0003		02.0	A. LEE			FS		
						TPH		
						CERCLA		
						RISK		
						RA		
N68311	000179	08/30/94	DTSC	NAVSTA LONG BEACH COMMENTS TO FINAL REMOVAL SITE	ADMIN RECORD	COMMENTS	6A	SOUTHWEST DIVISION
LTR		03/28/94	A. GUTIERREZ	EVALUATION REPORT SITE 6A - BOAT DISPOSAL AREA		RI		
N6871192D4670	00027		NAVSTA/NSY LB			GW		
0009		02.0				FS		
						REMOVAL		
N68311	000538	10/06/94		NAVSTA LONG BEACH FINAL RSE REPORT SITE 6A RESPONSE	ADMIN RECORD	RA	6A	SOUTHWEST DIVISION
MM		04/07/94		TO COMMENTS MEETING		RISK		
N6871192D4670	00027							
0003		02.0						
N68311	000537	10/06/94		NAVSTA LONG BEACH RESPONSE TO COMMENTS FINAL RSE FOR	ADMIN RECORD	REMOVAL	6A	SOUTHWEST DIVISION
MISC		04/15/94		SITE 6A		RI		
N6871192D4670	00027					FS		
0014		02.0				COMMENTS		
N68311	000499	10/06/94	WORLDPORT LA	NAVSTA LONG BEACH SITE 6A SEASIDE AVENUE GRADE	ADMIN RECORD	RI	6A	SOUTHWEST DIVISION
LTR		04/25/94	B. FOLEY	SEPARATION MEETING SUMMARY HELD 04/04/94		FS		
0000000000000000		00000	DISTRIBUTION			REMOVAL		
0005		01.1				CERCLA		
						RA		
						GW		
						WATER		
						WELLS		
						MONITORING		
						RCRA		
						HAZ WASTE		

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N68311 CLTR N6871192D4670 0450	000534 04/28/94 00027 02.0	10/06/94 K. KAPUR SOUTHWEST DIVISION A. LEE	BECHTEL NATIONAL	NAVSTA LONG BEACH ADDENDUM TO THE FINAL REMOVAL SITE EVALUATION (RSE) REPORT SITE 6A	ADMIN RECORD	REMOVAL COMMENTS QC H&SP SB LAB QA RI FS RA	6A	SOUTHWEST DIVISION		
N68311 RPT N6871192D4670 0030	000190 05/01/94 00016 01.1	08/30/94 K. KAPUR	BECHTEL NATIONAL	NAVAL COMPLEX LONG BEACH TECHNICAL MEMORANDUM NO. 1 REVISED FINAL TECHNICAL MEMORANDUM FACILITY WIDE LIMITED FIELD INVESTIGATION	ADMIN RECORD	TECH MEMO GW WELLS DATA RI FS	5 6A	SOUTHWEST DIVISION		
N68311 RPT N6871192D4670 0018	000191 05/01/94 00015 04.3	08/30/94 K. KAPUR	BECHTEL NATIONAL	NAVAL COMPLEX LONG BEACH TECHNICAL MEMORANDUM NO. 2 REVISED FINAL TECHNICAL MEMORANDUM PROPOSED MODIFICATION TO FINAL RI/FS PLAN	ADMIN RECORD	RI FS TECH MEMO WELLS GW SAP	1 2 3 4 5 6A 7	SOUTHWEST DIVISION		
N68311 CLTR 0000000000000000 0007	000193 05/05/94 00015 01.1	08/30/94 K. KAPUR SOUTHWEST DIVISION	BECHTEL NATIONAL	NAVSTA LONG BEACH PRELIMINARY FIELD DATA REVIEW FOR SITES 1 THROUGH 5 AND 6A (MISSING ENCL: CONCENTRATION MAPS)	ADMIN RECORD	DATA LAB RI FS MAP	1 2 3 4 5 6A	SOUTHWEST DIVISION		
N68311 CLTR 0000000000000000 0001	000194 05/05/94 00015 01.1	08/30/94 T.S. ERICKSON DISTRIBUTION	NAVSTA LONG BEACH	NAVSTA LONG BEACH PRELIMINARY FIELD DATA REVIEW FOR SITES 1 THROUGH 5 AND 6A (MISSING ENCL: CONCENTRATION MAPS, SEE DOCUMENT NO. 000193 FOR PRELIM. DATA)	ADMIN RECORD	DATA LAB RI FS MAP	1 2 3 4 5 6A	SOUTHWEST DIVISION		
N68311 LTR 0000000000000000 0001	000435 05/06/94 00000 01.1	10/04/94 K. KESLER DEPT HOUSING & URBAN J.N. FORSBERG	SOUTHWEST DIVISION	NAVSTA LONG BEACH ADDITIONAL INFORMATION REGARDING SEASIDE AVENUE/SITE 6A PARCEL	ADMIN RECORD		6A	SOUTHWEST DIVISION		
N68311 CLTR N6871192D4670 0081	000203 05/18/94 00015 04.4	08/30/94 T.S. ERICKSON DISTRIBUTION	NAVSTA LONG BEACH	NAVSTA LONG BEACH REVISED FINAL HEALTH AND SAFETY PLAN SUPPLEMENT	ADMIN RECORD	RI FS H&SP SB HAZ WASTE	1 2 3 4 5 6A 7	SOUTHWEST DIVISION		

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N68311	000437	10/04/94	NAVSTA LONG BEACH CONTACT REPORT REGARDING PROPOSED	ADMIN RECORD	SB	1	SOUTHWEST DIVISION				
TEL	05/18/94	D. MC NARY	CONTINGENT SAMPLING PLAN FOR IR SITES 1 THROUGH 5 AND			2					
0000000000000000	00015		6A			3					
0001	03.1	A. WINANS				4					
						5					
						6A					
N68311	000524	10/06/94	NAVSTA LONG BEACH COMMENTS TO ADDENDUM TO THE FINAL	ADMIN RECORD	REMOVAL	6A	SOUTHWEST DIVISION				
LTR	05/18/94	S. LAUTH	REMOVAL SITE EVALUATION (RSE) FOR SITE 6A		COMMENTS						
N6871192D4670	00027	SOUTHWEST DIVISION									
0001	02.0	A. LEE									
N68311	000206	08/31/94	NAVSTA LONG BEACH COMMENTS TO FINAL REMEDIAL SITE	ADMIN RECORD	RI	6A	SOUTHWEST DIVISION				
LTR	05/20/94	A.A. ARELLANO	EVALUATION (RSE) REPORT SITE 6A - BOAT DISPOSAL AREA		GW						
0000000000000000	00000	NAVSTA/NSY LB			FS						
0004	03.4				COMMENTS						
N68311	000463	10/04/94	NAVSTA LONG BEACH NEWS ARTICLE, 'TERMINAL ISLAND SITE	ADMIN RECORD	NEWSART	6A	SOUTHWEST DIVISION				
MISC	06/04/94	NEWS-PILOT	ON BLOCK'		INFO REPOSITORY						
0000000000000000	00000										
0001	10.6										
N68311	000208	08/31/94	NAVSTA LONG BEACH NEWS ARTICLE REGARDING AVAILABLE	ADMIN RECORD	NEWSART	6A	SOUTHWEST DIVISION				
MISC	06/07/94	NEWS-PILOT	PROPERTY (SITE 6A) ON TERMINAL ISLAND		INFO REPOSITORY						
0000000000000000	00000										
0001	10.6										
N68311	000441	10/04/94	NAVSTA LONG BEACH TRANSMITTAL OF SPECIFIC INFO FROM	ADMIN RECORD	HAZMAT	6A	SOUTHWEST DIVISION				
LTR	06/10/94	SOUTHWEST DIVISION	PORT OF LOS ANGELES REGARDING SEASIDE AVENUE/SITE 6A								
0000000000000000	00000	J.K. SHEPARD	PARCEL								
0003	01.1	DEPT HOUSING & URBAN									
		B. RICHARDS									
N68311	000213	08/31/94	NAVSTA LONG BEACH REQUEST FOR ASSISTANCE IN	ADMIN RECORD		6A	SOUTHWEST DIVISION				
LTR	06/14/94	SOUTHWEST DIVISION	DETERMINING REQUIREMENTS FOR POLA PROPOSED								
0000000000000000	00000	A.K. LEE	CONSTRUCTION PROJECT								
0002	06.0	DTSC									
		A. GUTIERREZ									
N68311	000216	08/31/94	NAVSTA LONG BEACH COMMENTS TO PROPOSED PHASE II	ADMIN RECORD	RI	1	SOUTHWEST DIVISION				
LTR	06/22/94	DTSC	(CONTINGENT) SAMPLING - IR SITES 1 THROUGH 5 AND 6A		FS	2					
0000000000000000	00000	A. GUTIERREZ			SAP	3					
0005	03.1	NAVSTA/NSY LB			WELLS	4					
					SB	5					
					DATA	6A					
					MONITORING						
					COMMENTS						
N68311	000222	08/31/94	NAVSTA LONG BEACH TRANSMITTAL OF DRAFT FINAL RI/FS	ADMIN RECORD	RI	1	SOUTHWEST DIVISION				
MISC	07/01/94	BECHTEL NATIONAL	RISK ASSESSMENT WORK PLAN (ENCL RI/FS RA WORK PLAN		FS	2					
N6871192D4670	00015	K. KAPUR	CAN BE FOUND WITH DOC NO. 000223)		RA	3					
0002	03.3	SOUTHWEST DIVISION				4					
		A.K. LEE				5					
						6A					

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N68311	000227	08/31/94	DTSC	LTR	07/08/94	A.A. ARELLANO	0000000000000000	00000	SOUTHWEST DIVISION	NAVSTA LONG BEACH LETTER RESPONSE REGARDING POLA CONSTRUCTION OF A TEMPORARY DETOUR ROADWAY & PERMANENT RAIL TRACKS ACROSS SITE 6A - BOAT DISPOSAL AREA	ADMIN RECORD	IRP RI FS GW COMMENTS PERMIT	6A	SOUTHWEST DIVISION
0008	06.0	A. LEE												
N68311	000904	03/26/97	EPA SAN FRANCISCO	LTR	01/27/95	S. LAUTH	0000000000000000	00000	SOUTHWEST DIVISION	COMMENTS ON DRAFT BRAC REALIGNMENT AND CLOSURE (BRAC) CLEANUP PLAN	ADMIN RECORD	COMMENTS BCP	PARCEL A PARCEL B 1 2 3 4 5 6A 7	SOUTHWEST DIVISION
0005	10.1	A. LEE												
N68311	000857	03/13/97	BECHTEL NATIONAL INC	PLAN	02/24/95	K. KAPUR	N6871192D4670	00017	SOUTHWEST DIVISION	FINAL BRAC CLEANUP PLAN (REV. NO. 2)	ADMIN RECORD	BRAC CLEANUP BCP UST GW	3 4 5 6A 7 OU 1 OU 2 OU 3 BLDG. 673 BLDG. 676 BLDG. 401 AOC 1 AOC 2 AOC 3 AOC 4 AOC 5 AOC 6 AOC 7 AOC 8 AOC 9 AOC 10 AOC 11 BLDG. 756 AOC 12 AOC 13 AOC 14 AOC 15 AOC 16 AOC 17 AOC 18 AOC 19 AOC 20 1 2	SOUTHWEST DIVISION
0100	03.3	A. LEE												

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UIC No.	DOC.NO.	PRC.DATE	FROM.....	DOC.DATE	FROM.SIGNATURE.....	SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...Location.....
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N68311	000005	03/08/95	BNI	03/03/95	K. KAPUR	NAVSTA LONG BEACH, NAVHOSP LONG BEACH AND ASSOCIATED HOUSING FINAL BRAC CLEANUP PLAN (NO. 2)	ADMIN RECORD INFO REPOSITORY	BCP BRAC AOC ARAR AST CERCLA FFSRA FOSL FOST SARA UST	1 2 3 4 5 6A	SOUTHWEST DIVISION
CLTR										
N6871192D4670										
0075		10.0	SWDIV							
N68311	000649	07/17/95	DTSC	03/03/95	R. OKUDA	NAVSTA LONG BEACH DRAFT FINDING OF SUITABILITY TO LEASE (FOSL), SEASIDE AVENUE AND OCEAN BOULEVARD (SITE 6A) (COMMENTS)	ADMIN RECORD	FOSL COMMENTS FOST EBS	6A	SOUTHWEST DIVISION
LTR										
0000000000000000										
0007		01.1	K. KESLER							
N68311	000650	07/17/95	SOUTHWEST DIVISION	04/06/95	A.K. LEE	NAVSTA LONG BEACH COMMENTS ON DRAFT WASTE MANAGEMENT PLAN AND SITE-SPECIFIC HEALTH AND SAFETY PLAN (COMMENTS)	ADMIN RECORD	COMMENTS WMP IRP H&SP	6A	SOUTHWEST DIVISION
LTR										
0000000000000000										
0008		03.5	D.W. RICE							
N68311	000661	09/27/95	DTSC	05/17/95	S. MORROW	NAVSTA LONG BEACH FINDING OF SUITABILITY TO LEASE FOR SEASIDE AVENUE AND OCEAN BOULEVARD (SITE 6A)	ADMIN RECORD CONFIDENTIAL DOC	FOSL COMMENTS HAZ WASTE	6A	SOUTHWEST DIVISION
LTR										
0000000000000000										
0003		01.1	K. KESLER							
N68311	000682	03/14/96	BNI	05/17/95	K.K. KAPUR	NAVSTA LONG BEACH DRAFT REMEDIAL INVESTIGATION (RI) REPORT INSTALLATION RESTORATION PROGRAM FOR SITES 1 THROUGH 6A (VOLUME 1)	ADMIN RECORD INFO REPOSITORY	RI GW FS	1-6A	SOUTHWEST DIVISION
RPT										
N6871192D4670										
0200		03.4	SOUTHWEST DIVISION							
N68311	000683	03/14/96	BNI	05/17/95	K.K. KAPUR	NAVSTA LONG BEACH DRAFT REMEDIAL INVESTIGATION (RI) REPORT INSTALLATION RESTORATION PROGRAM FOR SITES 1 THROUGH 6A (VOLUME 2)	ADMIN RECORD INFO REPOSITORY	RI FS GW	1-6A	SOUTHWEST DIVISION
RPT										
N6871192D4670										
0200		03.4	SOUTHWEST DIVISION							
N68311	000684	03/14/96	BNI	05/17/95	K.K. KAPUR	NAVSTA LONG BEACH DRAFT REMEDIAL INVESTIGATION (RI) REPORT INSTALLATION RESTORATION PROGRAM FOR SITES 1 THROUGH 6A (VOLUME 3)	ADMIN RECORD INFO REPOSITORY	RI FS GW	1-6A	SOUTHWEST DIVISION
RPT										
N6871192D4670										
0200		03.4	SOUTHWEST DIVISION							
N68311	000685	03/14/96	BNI	05/17/95	K.K. KAPUR	NAVSTA LONG BEACH DRAFT REMEDIAL INVESTIGATION (RI) REPORT INSTALLATION RESTORATION PROGRAM FOR SITES 1 THROUGH 6A (VOLUME 4)	ADMIN RECORD INFO REPOSITORY	RI FS GW	1-6A	SOUTHWEST DIVISION
RPT										
N6871192D4670										
0200		03.4	SOUTHWEST DIVISION							
N68311	000686	03/14/96	BNI	05/17/95	K.K. KAPUR	NAVSTA LONG BEACH DRAFT REMEDIAL INVESTIGATION (RI) REPORT INSTALLATION RESTORATION PROGRAM FOR SITES 1 THROUGH 6A (VOLUME 5)	ADMIN RECORD INFO REPOSITORY	RI FS GW	1-6A	SOUTHWEST DIVISION
RPT										
N6871192D4670										
0200		03.4	SOUTHWEST DIVISION							

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N68311	000662	09/27/95	EPA	NAVSTA LONG BEACH COMMENTS ON FINDING OF SUITABILITY	ADMIN RECORD	FOSL	6A	SOUTHWEST DIVISION
LTR		05/18/95	S. LAUTH	TO LEASE FOR SEASIDE AVENUE AND OCEAN BOULEVARD	CONFIDENTIAL DOC	COMMENTS		
0000000000000000		00000	SOUTHWEST DIVISION	(SITE 6A)		RA		
0001		01.1	K. KESLER			GW		
N68311	000898	03/26/97	DTSC LONG BEACH	COMMENTS ON THE WASTE MANAGEMENT PLAN & SITE-SPECIFIC	ADMIN RECORD	COMMENTS	6A	SOUTHWEST DIVISION
LTR		06/20/95	A. GUTIERREZ	HEALTH AND SAFETY PLAN, SITE 6A - SEASIDE AVE. GRADE		WMP		
0000000000000000		00000	PORT OF LOS ANGELES	SEPARATION PROJECT, TERMINAL ISLAND, CALIF.		SSHP		
0002		10.1	D. RICE					
N68311	000664	09/27/95	SOUTHWEST DIVISION	NAVSTA LONG BEACH FOLLOWUP INVESTIGATION AT SITE 6A	ADMIN RECORD	LAB	6A	SOUTHWEST DIVISION
CLTR		07/07/95	K. BAER	OR OLD DEFENSE PROPERTY DISPOSAL OFFICE (DPDO)		RI		
0000000000000000		00000	CONSOLIDATED TECH	(MISSING QA PROJECT PLAN AND FIELD SAMPLING PLAN)		FS		
0001		01.4	J. ARVIRZU					
N68311	000860	03/25/97	BECHTEL NATIONAL INC	RI REPORT ERRATA LIST; SITES 1 THROUGH 5 AND 6A	ADMIN RECORD	RI	1	SOUTHWEST DIVISION
XMTL		07/28/95	K. KAPUR			CONTAM*	2	
N6871192D4670		00015	VARIOUS AGENCIES				3	
0022		03.4					4	
							5	
							6A	
N68311	000827	10/11/96	GERAGHTY & MILLER	PORT OF LOS ANGELES AND THE NPDES PERMIT APPLICATION	ADMIN RECORD	PERMIT	6A	SOUTHWEST DIVISION
LTR		08/10/95	C. O'ROURKE	SUPPLELMENT			6B	
0000000000000000		00000	PORT OF LOS ANGELES					
0006		01.6	L. NISHINAGA					
N68311	000754	08/22/96	BNI SAN DIEGO	DRAFT PRELIMINARY ASSESSMENT FOR THE AREAS OF	ADMIN RECORD	HAZ WASTE	AOPC 1	SOUTHWEST DIVISION
RPT		08/11/95	K. KAPUR	POTENTIAL CONCERN			AOPC 2	
N6871192D4670		00095	SOUTHWEST DIVISION				AOPC 3	
0250		01.3					AOPC 4	
							AOPC 5	
							AOPC 6	
							AOPC 7	
							AOPC 8	
							AOPC 9	
							AOPC 10	
							AOPC 11	
							AOPC 12	
							AOPC 13	
							AOPC 14	
							AOPC 15	
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							1	
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							6A	

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N68311 000754 continued

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N68311	000674	11/16/95	SOUTHWEST DIVISION	NAVSTA LONG BEACH IR SITES, GROUNDWATER, ADJACENT SITES, AND CONTAMINANTS LOCATED THEREIN	ADMIN RECORD	PERMIT GW	6B 6A	SOUTHWEST DIVISION
LTR		09/05/95	M.A. RADECKI					
N6871192D4670		00000	POLA					
0003		01.1	B.K. FOLEY					
N68311	000676	11/16/95	DTSC	NAVSTA LONG BEACH DRAFT REMEDIAL INVESTIGATION (RI) FOR SITES 1 THROUGH 6A	ADMIN RECORD	RI COMMENTS SI GW ARAR RISK	1 2 3 4 5 6A	SOUTHWEST DIVISION
CLTR		09/05/95	A. GUTIERREZ					
0000000000000000		00000	SOUTHWEST DIVISION					
0016		03.4	M. RADECKI					
N68311	000677	11/16/95	DTSC	NAVSTA LONG BEACH AMENDMENT TO THE FINDING OF SUITABILITY TO LEASE (FOSL) FOR SEASIDE AVENUE AND OCEAN BOULEVARD	ADMIN RECORD	FOSL COMMENTS NEPA	6A	SOUTHWEST DIVISION
LTR		09/05/95	S.C. LEMIEUX					
0000000000000000		00000	SOUTHWEST DIVISION					
0003		01.1	K. KESLER					
N68311	000828	10/11/96	EPA SAN FRANCISCO	EPA COMMENTS TO AMENDED PORTIONS OF THE FINDING OF SUITABILITY TO LEASE SEASIDE AVE AND OCEAN BLVD AT FORMER NAVSTA LONG BEACH	ADMIN RECORD	COMMENTS FOSL RSE	6A BLDG. 95	SOUTHWEST DIVISION
LTR		09/05/95	S. LAUTH					
0000000000000000		00000	SOUTHWEST DIVISION					
0001		10.1	R. HOLMAN					
N68311	000908	03/26/97	SOUTHWEST DIVISION	RE APPLICATION FOR AN NPDES PERMIT SUBMITTED BY THE PORT OF LOS ANGELES FOR DISCHARGE OF CONSTRUCTION DEWATERING WATER	ADMIN RECORD	PERMIT WATER	6A 6B	SOUTHWEST DIVISION
LTR		09/05/95	M. RADECKI					
0000000000000000		00000	CRWQCB					
0002		01.6	M. ALI					
N68311	000668	11/16/95	SOUTHWEST DIVISION	NAVSTA LONG BEACH CAR DUMPER PIT CONSTRUCTION PROJECT WHICH WILL REQUIRE DEWATERING APPROXIMATELY 2 MILLION GALLONS PER DAY OF GROUNDWATER FOR SITES 6A & 6B	ADMIN RECORD	GW	6A 6B	SOUTHWEST DIVISION
LTR		10/10/95	A.K. LEE					
N6871192D4670		00017	DTSC					
0002		01.1	A. GUTIERREZ					
N68311	000666	11/16/95	DTSC	NAVSTA LONG BEACH COMMENTS TO DRAFT FINAL AMENDMENT TO THE FINDING OF SUITABILITY TO LEASE (FOSL)	ADMIN RECORD	COMMENTS FOSL	6A	SOUTHWEST DIVISION
LTR		10/12/95	S.C. LEMIEUX					
N6871192D4670		00000	SOUTHWEST DIVISION					
0002		01.1	K. KESLER					
N68311	000710	03/18/96	EPA	NAVSTA LONG BEACH COMMENTS TO DRAFT FINAL AMENDMENT TO THE FINDING OF SUITABILITY TO LEASE (FOSL) FOR SEASIDE AVENUE AND OCEAN BOULEVARD (SITE 6A)	ADMIN RECORD	COMMENTS FOSL	6A	SOUTHWEST DIVISION
LTR		10/30/95	S. LAUTH					
0000000000000000		00000	SOUTHWEST DIVISION					
0001		01.1	R. HOLMAN					
N68311	000741	08/21/96	WORLDPORT LA	ABANDONMENT OF MONITORING WELLS ON SITE 6A - AS PER SEASIDE AVENUE/NAVY WAY GRADE SEPARATION PROJECT	ADMIN RECORD	MONITORING	6A	SOUTHWEST DIVISION
LTR		02/29/96	D. RICE					
0000000000000000		00000	SOUTHWEST DIVISION					
0002		01.6	A. LEE					

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N68311	000743	08/21/96	SOUTHWEST DIVISION		NAVY REQUEST FOR EXCLUSION FROM MCL REQUIREMENTS WITH ENCLOSURE: TECHNICAL MEMO - EXAMINATION OF GROUNDWATER BENEFICIAL USES	ADMIN RECORD	GW	1 2 3 4 5 6A 6B	SOUTHWEST DIVISION
LTR	03/12/96	A. LEE							
0000000000000000	00000	RWCQB							
0100	01.6	H. MARLEY							
N68311	000747	08/21/96	DTSC		COMMENTS ON THE FINDINGS OF SUITABILITY TO LEASE NAVY MOLE FROM CRWQCB	ADMIN RECORD	COMMENTS FOSL	1,2,4 6A	SOUTHWEST DIVISION
LTR	03/25/96	S. LEMIEUX							
0000000000000000	00000	SOUTHWEST DIVISION							
0003	01.6	K. KESLER							
N68311	000751	08/21/96	DTSC		COMMENTS ON DRAFT FINAL FINDING OF SUITABILITY TO LEASE, NAVY MOLE	ADMIN RECORD	FOSL	1,2,3,4,5 6A,7	SOUTHWEST DIVISION
LTR	04/08/96	S. LEMIEUX							
0000000000000000	00000	SOUTHWEST DIVISION							
0003	01.6	K. KESLER							
N68311	000724	05/22/96	BNI		NAVSTA LONG BEACH DRAFT RESPONSE TO COMMENTS DRAFT REMEDIAL INVESTIGATION (RI) REPORT INSTALLATION RESTORATION (IR) SITES 1-6A	ADMIN RECORD INFO REPOSITORY	RI COMMENTS IRP DATA	1-6A	SOUTHWEST DIVISION
CLTR	04/11/96	J. KLUESENER							
N6871192D4670	00015	SOUTHWEST DIVISION							
0050	03.6	P. KENNEDY							
N68311	000851	03/13/97	BECHTEL NATIONAL INC		DRAFT TECHNICAL MEMORANDUM PROPOSED PLANS AND RECORDS OF DECISION FOR IR SITES 1-5, 6A AND 7 DATED MAY 13, 1996	ADMIN RECORD	TECH MEMO ROD IRA	1 2 3 4 5 AOC 4 6A 7	SOUTHWEST DIVISION
PLAN	05/13/96	J. KLUESENER							
N6871192D4670	0110	VARIOUS AGENCIES							
0012	05.1								
N68311	000723	05/22/96	BNI		NAVSTA LONG BEACH DRAFT TECHNICAL MEMORANDUM PROPOSED PLAN AND RECORDS OF DECISION FOR IR SITES 1-5, 6A, & 7	ADMIN RECORD INFO REPOSITORY	ROD TECH MEMO RI FS CERCLA NCP	1-5,6A,7	SOUTHWEST DIVISION
CLTR	05/15/96	J. KLUESENER							
N6871192D4670	00110	SOUTHWEST DIVISION							
0015	04.3	P. KENNEDY							
N68311	000750	08/21/96	BNI SAN DIEGO		FINAL HEALTH AND SAFETY PLAN SUPPLEMENT FOR GROUNDWATER MONITORING DATED JUNE 19, 1996	ADMIN RECORD INFO REPOSITORY	H&SP GW MONITORING	1,2,3,4,5 6A, 6B BLDG.8 BLDG.32	SOUTHWEST DIVISION PUBLIC LIBRARY L.B
PLAN	06/19/96	N. THOMAS							
N6871192D4670	0112	SOUTHWEST DIVISION							
0075	03.5	P. KENNEDY							
N68311	000825	09/13/96	BNI SAN DIEGO		RESPONSE TO COMMENTS FOR DRAFT RI DATED JUNE 12, 1996 AND JUNE 20, 1996 W/ENCL	ADMIN RECORD	RESPONSE COMMENTS RI	1 2 3 4 5 6A 6B	SOUTHWEST DIVISION
XMTL	06/20/96	K. KAPUR							
N6871192D4670	00037	SOUTHWEST DIVISION							
0050	10.1	R. SELBY							

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N68311 000742 RPT N6871192D4670 7000	08/21/96 07/10/96 00015 03.4	BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION P. KENNEDY	FINAL RI REPORT FOR IR SITES 1 THROUGH 6A VOLUMES I THROUGH VII (W/RESPONSE TO COMMENTS ON THE DRAFT IR FROM DTSC)	ADMIN RECORD	RI IRP DISPOSAL	1,2,3,4,5 6A	SOUTHWEST DIVISION PUBLIC LIBRARY L.B	
N68311 000809 LTR 0000000000000000 0002	09/10/96 07/10/96 00000 01.6	SOUTHWEST DIVISION K. BAER DTSC LONG BEACH A. GUTIERREZ	REQUEST FOR LETTER OF ACCEPTANCE OF THE NAVY'S RESPONSE TO COMMENTS AND THE FINAL RI REPORT BY AUGUST 8, 1996 W/O ENCL	ADMIN RECORD	REQUEST RESPONSE RI	1 2 3 4 5 6A	SOUTHWEST DIVISION	
N68311 000763 LTR 0000000000000000 0003	08/22/96 07/24/96 00000 01.6	DTSC S. LEMIEUX SOUTHWEST DIVISION K. KESLERREZ	COMMENTS ON DRAFT REVISED FINDING OF SUITABILITY TO LEASE, SITE 6A	ADMIN RECORD	FOSL COMMENTS	6A	SOUTHWEST DIVISION	
N68311 000766 XMTL N-6871192D4670 0007	08/22/96 07/29/96 15/16 06.0	BNI-LA K. KAPUR SOUTHWEST DIVISION R. SELBY	CONTACT REPORT REGARDING RESOLUTION OF STATE AGENCY COMMENTS ON DRAFT RI FOR IR SITES 1 THROUGH 6A	ADMIN RECORD	COMMENTS RI	1,2,3,4,5 6A	SOUTHWEST DIVISION	
N68311 000950 MEMO 0000000000000000 0002	09/23/97 10/02/96 00000 10.1	CRWQCB LOS ANGELES J. ROSS DTSC LONG BEACH A. GUTIERREZ	CRWQCB COMMENTS ON DRAFT GROUNDWATER MONITORING WORK PLAN (REF. DOC. #000757)	ADMIN RECORD INFO REPOSITORY	COMMENTS GW MONITORING WORK PLAN DRY DOCK WELLS	1 3 4 AOPC 1 6A	SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 000885 LTR 0000000000000000 0018	03/26/97 10/28/96 00000 10.1	DTSC LONG BEACH A. GUTIERREZ SOUTHWEST DIVISION K. OSTROUSKI	COMMENTS ON THE DRAFT GROUNDWATER MONITORING WORKPLAN (GWMWP), NAVAL STATION LONG BEACH	ADMIN RECORD	COMMENTS GW MONITORING WORK PLAN	5 OU 1 OU 2 AOC 1 AOC 4 1 3 4 6A	SOUTHWEST DIVISION	
N68311 000931 CLTR 0000000000000000 0002	09/22/97 10/28/96 00000 01.6	SOUTHWEST DIVISION K. OSTROWSKI PORT OF LOS ANGELES K. LEON-GUERRERO	TRANSMITTAL OF FOUR SIGNED COPIES OF THE TEMPORARY ENTRY AND USE PERMIT GRANTING ACCESS TO CITY OF LA HARBOR DEPT. PROPERTY FOR ENVIRON. SOIL AND GW INVEST.	ADMIN RECORD INFO REPOSITORY	PERMIT SOIL GW SOIL CERFA CERCLA	6A	SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 000838 PLAN N6871192D4670 0500	11/21/96 11/11/96 00112 03.3	BECHTEL NATIONAL K. KAPUR SOUTHWEST DIVISION R. SELBY	FINAL GROUNDWATER MONITORING WORK PLAN	ADMIN RECORD	GW MONITORING WORK PLAN	1 2 3 4 6A 6B	SOUTHWEST DIVISION	

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NAVAL STATION LONG BEACH ADMINISTRATIVE RECORD FILE SITE 6A

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N68311	000882	03/26/97	DTSC LONG BEACH		COMMENTS ON FINAL IR REPORTS FOR SITES 1 THROUGH 6A	ADMIN RECORD	COMMENTS	1	SOUTHWEST DIVISION
LTR		11/19/96	A. GUTIERREZ		NAVAL STATION LONG BEACH			2	
0000000000000000	00000		SOUTHWEST DIVISION					3	
1000	10.1		K. OSTROWSKI					4	
								5	
								6A	
N68311	000881	03/25/97	DTSC LONG BEACH		COMMENTS ON THE DRAFT ENVIRONMENTAL IMPACT REPORT	ADMIN RECORD	EIR	7	SOUTHWEST DIVISION
LTR		12/05/96	S. LEMIEUX					6A	
0000000000000000	00000		PORT OF LONG BEACH						
0002	10.1		G. KNATZ						
N68311	000839	12/24/96	BECHTEL NATIONAL INC		DRAFT BRAC CLEANUP PLAN (NO.4)-CTO-0118	ADMIN RECORD	BRAC	1	SOUTHWEST DIVISION
PLAN		12/16/96	J. KLUESENER			INFO REPOSITORY	CLEANUP	2	NAVSTA LONG BEACH
N6817792D4670		00118	VARIOUS AGENCIES				BCP	3	
0200	03.3						UST	4	
								5	
								6A	
								AOPC 1	
								AOPC 2	
								AOPC 3	
								AOPC 4	
								AOPC 5	
								AOPC 6	
								AOPC 7	
								AOPC 8	
N68311	000907	03/26/97	SOUTHWEST DIVISION		CLARIFICATION THAT RESPONSE TO ADDITIONAL COMMENT ON	ADMIN RECORD	RESPONSE	1	SOUTHWEST DIVISION
LTR		12/17/96	K. BAER		FINAL RI CAN BE FOUND AS RESPONSE TO COMMENT 1 FOR		COMMENTS	2	
0000000000000000	00000		DTSC LONG BEACH		DRAFT APPENDIX U		RI	3	
0002	10.1		A. GUTIERREZ				IR	4	
								5	
								6A	
N68311	000848	03/13/97	BECHTEL NATIONAL INC		DRAFT SUPPLEMENTAL ENVIRONMENTAL BASELINE SURVEY	ADMIN RECORD	EBS	1	SOUTHWEST DIVISION
RPT		01/15/97	K. KAPUR		(SUPPLEMENTAL EBS) FOR NAVAL STATION LONG BEACH			4	
N6871192D4670		00111	VARIOUS AGENCIES					14	
0090	04.2							BLDG. 815	
								BLDG. 4	
								BLDG. 8	
								BLDG. 32	
								BLDG. 42	
								BLDG. 143	
								BLDG. 144	
								BLDG. 272	
								BLDG. 401	
								BLDG. 888	
								BLDG. 673	
								BLDG. 576	
								AOPC 5	
								AOPC 6	
								AOPC 17	
								AOPC 9	

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N68311 000848 continued

AOPC 21
AOPC 22
6A
5
3

N68311	000910	04/01/97	BECHTEL NATIONAL INC	AMENDMENTS TO DRAFT APPENDIX U-SUPPLEMENTAL FIELD	ADMIN RECORD	IRP	6A	SOUTHWEST DIVISION
RPT		02/03/97	J. KLUESENER	ACTIVITIES FOR IRP SITE 6A, DATED FEBRUARY 3, 1997		RI	1	
N6871192D4670		00112	VARIOUS AGENCIES	(REF.		BRAC	2	
0100		03.4				VOC	3	
						AOPC	4	

12
AOPC 1
AOPC 2
AOPC 3
AOPC 4
AOPC 8

N68311	000954	09/23/97	SOUTHWEST DIVISION	TRANSMITTAL OF PROPOSED AMENDMENTS TO REMEDIAL	ADMIN RECORD	RI	6A	SOUTHWEST DIVISION
CLTR		02/06/97	K. OSTROWSKI	INVESTIGATION REPORT, DRAFT APPENDIX U, FOR REVIEW	INFO REPOSITORY	GW	AOPC 3	L. BCH PUBLIC LIB.
0000000000000000		00000	VARIOUS AGENCIES	(REF. DOC. #000910) (W/O ENCL)		INVESTIGATION		
0006		10.1						

N68311	000843	03/13/97	BECHTEL NATIONAL INC	LONG-TERM GROUNDWATER MONITORING PROGRAM FIRST QUARTER	ADMIN RECORD	GW	1	SOUTHWEST DIVISION
RPT		02/14/97	K. KAPUR	GROUNDWATER MONITORING REPORT FORMER NAVAL STATION	INFO REPOSITORY	MONITORING	2	NAVSTA LONG BEACH
N6871192D4670		00112	VARIOUS AGENCIES	LONG BEACH			3	
0500		03.4					4	

6A
6B
AOPC 4
AOPC 2
AOPC 8

N68311	000845	03/13/97	BECHTEL NATIONAL INC	BRAC CLEANUP PLAN (BCP) FOR NAVAL STATION LONG BEACH,	ADMIN RECORD	BRAC	1	SOUTHWEST DIVISION
PLAN		03/01/97	J. KLUESENER	NAVAL HOSPITAL AND ASSOCIATED HOUSING (VERSION NO.4)		CLEANUP	2	
N6871192D4670		00118	SOUTHWEST DIVISION	DATED MARCH 1997		BCP	3	
0142		03.3	R. SELBY			IRP	4	

5
6B
6A
7
14
8
9
10
11
12
13
BLDG. 32
BLDG. 42
BLDG. 143
BLDG. 144
BLDG. 272

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N68311 000845 continued

BLDG. 888
BLDG. 401
BLDG. 669
BLDG. 671
BLDG. 422
BLDG. 299
BLDG. 398
BLDG. 8
BLDG. 46
BLDG. 95
BLDG. 676
BLDG. 741
BLDG. 152
BLDG. 650
BLDG. 307
BLDG. 821
BLDG. 749
BLDG. 756
BLDG. 4
BLDG. 220
BLDG. 419
BLDG. 40
BLDG. 831
AOPC 1
AOPC 2
AOPC 3
AOPC 4
AOPC 5
AOPC 6
AOPC 7
AOPC 8
AOPC 9
AOPC 10
AOPC 11
AOPC 12
AOPC 13
AOPC 14
AOPC 15
AOPC 16
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AOPC 18
AOPC 19
AOPC 20
AOPC 21
AOPC 22

N68311	000946	09/23/97	EPA	COMMENTS ON THE AMENDMENTS TO DRAFT APPENDIX U	ADMIN RECORD	COMMENTS	6A	SOUTHWEST DIVISION
FAX		03/05/97		SUPPLEMENTAL FIELD ACTIVITIES FOR IRP SITE 6A	INFO REPOSITORY	IDW		L. BCH PUBLIC LIB.
0000000000000000		00000		(REF. DOC. #000910)		DISPOSAL		
0001		10.1				INVESTIGATION		

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NAVAL STATION LONG BEACH ADMINISTRATIVE RECORD FILE SITE 6A

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N68311 000913 LTR 0000000000000000 0003	04/03/97 03/13/97 00000 01.6	DTSC LONG BEACH A. GUTIERREZ VARIOUS AGENCIES	REVIEW OF AMENDMENTS TO DRAFT APPENDIX U - SUPPLEMENTAL ACTIVITIES FOR INSTALLATION RESTORATION SITE 6A	ADMIN RECORD	IRP COMMENTS	6A 1 2 3 4	SOUTHWEST DIVISION		
N68311 000922 RPT N6871192D4670 0075	05/05/97 03/20/97 00111 02.1	BECHTEL NATIONAL INC J. KLESENER SOUTHWEST DIVISION R. SELBY	FINAL SUPPLEMENTAL ENVIRONMENTAL BASELINE SURVEY	ADMIN RECORD	EBS	1 2 3 4 5 6A 7 14 AOPC 9 AOPC 21 AOPC 22 AOPC 17 AOPC 6 AOPC 5	SOUTHWEST DIVISION		
N68311 000943 LTR N6871192D4670 0004	09/22/97 03/31/97 00112 10.1	BECHTEL NATIONAL INC K. KAPUR SOUTHWEST DIVISION R. SELBY	RESPONSES TO AGENCY COMMENTS ON REMEDIAL INVESTIGATION REPORT, SITE 6A AMENDMENTS TO DRAFT APPENDIX U	ADMIN RECORD INFO REPOSITORY	RESPONSE COMMENTS RI VOC DRUMS IDW DISPOSAL	6A	SOUTHWEST DIVISION L. BCH PUBLIC LIB.		
N68311 000944 CLTR 0000000000000000 0003	09/23/97 04/01/97 00000 10.1	SOUTHWEST DIVISION K. OSTROWSKI VARIOUS AGENCIES	TRANSMITTAL OF RESPONSE TO AGENCY COMMENTS ON DRAFT APPENDIX U SUPPLEMENTAL FIELD ACTIVITIES; REQUEST CONCURRENCE (W/O ENCL)(REFER DOC.#000946)	ADMIN RECORD INFO REPOSITORY	COMMENTS RESPONSE	6A	SOUTHWEST DIVISION L. BCH PUBLIC LIB.		
N68311 000920 XMTL N6871192D4670 0004	05/05/97 04/03/97 00112 10.1	BECHTEL NATIONAL INC J. KLUESENER SOUTHWEST DIVISION R. SELBY	RESPONSE TO AGENCY COMMENTS ON REMEDIAL INVESTIGATION REPORT, SITE 6A AMENDMENTS TO DRAFT APPENDIX U	ADMIN RECORD	RESPONSE COMMENTS RI	6A	SOUTHWEST DIVISION		
N68311 000926 RPT N6871192D4670 0350	05/13/97 04/14/97 00112 03.4	BECHTEL NATIONAL INC J. KLUESENER VARIOUS AGENCIES	FINAL APPENDIX U, SUPPLEMENTAL FIELD ACTIVITIES FOR IRP SITES 1, 2, 3, 4, AND 6A	ADMIN RECORD	IRP	1 2 3 4 6A	SOUTHWEST DIVISION		
N68311 000924 RPT N6871192D4670 0003	05/13/97 04/15/97 00112 01.6	BECHTEL NATIONAL INC K. KAPUR VARIOUS AGENCIES	CONTACT REPORT DATED APRIL 15, 1997 PERTAINING TO RI REPORT AMENDMENTS TO DRAFT APPENDIX U, SUPPLEMENTAL FIELD ACTIVITIES FOR IRP SITE 6A W/ATTACHMENT	ADMIN RECORD	RI IRP COMMENTS	6A	SOUTHWEST DIVISION		

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N68311 CLTR 0000000000000000 0006	000955 04/30/97 00000 10.1	09/23/97 K. OSTROWSKI VARIOUS AGENCIES	SOUTHWEST DIVISION	TRANSMITTAL OF REMEDIAL INVESTIGATION REPORT FOR IRP SITES 1 THROUGH 6A, FINAL APPENDIX U, SUPPLEMENTAL FIELD ACTIVITIES FOR IRP SITES 1-4 & 6A (DOC. #000926)	ADMIN RECORD INFO REPOSITORY	RI IRP	1 2 3 4 5 6A	SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 CLTR N6871192D4670 0002	000956 05/15/97 00112 03.4	09/23/97 K. KAPUR VARIOUS AGENCIES	BECHTEL NATIONAL INC	TRANSMITTAL OF REVISED SPINE TO REMEDIAL INVESTIGATION REPORT FOR IRP SITES 1 THRU 6A, FINAL APPENDIX U, SUPPLEMENTAL FIELD ACTIVITIES (REF. DOC. #000926)	ADMIN RECORD INFO REPOSITORY	RI IRP	1 2 4 5 6A	SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 RPT N6871192D4670 1200	000964 07/11/97 00112 01.1	09/23/97 K. KAPUR SOUTHWEST DIVISION R. SELBY	BECHTEL NATIONAL INC	DRAFT SECOND QUARTER (BIANNUAL) GROUNDWATER MONITORING REPORT NAVSTA LONG BEACH	ADMIN RECORD	GW MONITORING DATA WELLS	1 2 3 4 6A AOPC 4 AOPC 2 AOPC 8 6B 5	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0003	000977 12/24/97 10/08/97 00000 01.6	09/23/97 K. OSTROWSKI VARIOUS AGENCIES	SOUTHWEST DIVISION	REQUEST THAT DTSC BE LEAD AGENCY FOR THE STATE OF CALIFORNIA ON IDENTIFICATION OF STATE ARARS FOR IR SITES 1,2,3,4,5, AND 6A	ADMIN RECORD INFO REPOSITORY	REQUEST ARAR IR	1 2 3 4 5 6A	SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 RPT N6871192D4670 1000	000970 11/26/97 11/06/97 00112 01.2	09/23/97 K. KAPUR VARIOUS AGENCIES	BECHTEL NATIONAL INC	DRAFT FOURTH QUARTER (ANNUAL) GROUNDWATER MONITORING REPORT FORMER NAVAL STATION LONG BEACH	ADMIN RECORD INFO REPOSITORY	GW MONITORING IR	1 2 3 4 6A 6B AOPC 4 AOPC 2 AOPC 8 AOPC 3	SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 LTR 0000000000000000 0002	000979 12/24/97 11/06/97 00000 01.6	09/23/97 K. KESLER POLA SAN PEDRO M. LEMKE	SOUTHWEST DIVISION	OPTIONS TO THE ENVIRONMENTAL CLEANUP CAP OF THE LIFOC PROPERTY FOR SITE 6A PARCEL	ADMIN RECORD INFO REPOSITORY	CLEANUP	6A	SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 LTR 0000000000000000 0007	000992 03/16/98 01/05/98 00000 10.1	09/23/97 M. HAUSLADEN SOUTHWEST DIVISION K. OSTROWSKI	EPA SAN FRANCISCO	COMMENTS ON DRAFT FEASIBILITY STUDY FOR INSTALLATION RESTORATION SITES 3,4, 5 AND 6A	ADMIN RECORD INFO REPOSITORY	COMMENTS FS IR	3 4 5 6A	SOUTHWEST DIVISION L. BCH PUBLIC LIB.	

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N68311	001002	03/16/98	CRWQCB MONTEREY PARK	CONCURRENCE WITH THE NAVY'S RECOMMENDATIONS FOR THE	ADMIN RECORD	FS	3							SOUTHWEST DIVISION
LTR		01/13/98	J. ROSS	DRAFT FEASIBILITY STUDY FOR INSTALLATION RESTORATION	INFO REPOSITORY	IR	4							L. BCH PUBLIC LIB.
0000000000000000	00000		SOUTHWEST DIVISION	SITES 3,4,5 AND 6A			5							
0001	10.1		K. OSTROWSKI				6A							
N68311	001004	03/16/98	BECHTEL NATIONAL INC	FINAL FOURTH QUARTER (ANNUAL) GROUNDWATER MONITORING	ADMIN RECORD	GW	1							SOUTHWEST DIVISION
RPT		02/24/98	K. KAPUR	REPORT, FORMER NAVAL STATION, DATED FEBRUARY 1998	INFO REPOSITORY	MONITORING	2							L. BCH PUBLIC LIB.
N6871192D4670		00112	VARIOUS AGENCIES				3							
0900	01.2						4							
							6A							



TOTAL RECORDS PRINTED: 181



REPORT SPECIFICATION FOR: RPT233

TITLE: NAVAL STATION LONG BEACH ADMINISTRATIVE RECORD FILE SITE 6A

FILE: COMBINED Key Info. with Activity File

SELECTION CRITERIA:

[01] Site No. CONTAINS "6A" & UIC.No. IS "N68311 "

SORT CRITERIA:

01 Doc. Date

PAGE BREAK LEVEL:

00 NO PAGEBREAK

TYPE REPORT FORM

PAPER COMBO KEY INFO(master activity rpt form)

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N68311 MISC 000000000000000 0001	000814 00000 10.3	09/13/96 PUBLIC NOTICE	SOUTHWEST DIVISION		PUBLIC NOTICE "REMOVAL OF CONTAMINATED SOIL AT THE FORMER NAVAL STATION IR SITE 3, AOC 4"; NOTICE OF PUBLIC MEETING & COMMENT PERIOD	ADMIN RECORD	PUBNOT REMOVAL PIM EE/CA(*)	3 AOC 4	SOUTHWEST DIVISION
N68311 CLTR N6871189D9296 0023	000032 11/02/89 00013 03.3	08/22/94 P.J. STASSI SOUTHWEST DIVISION H. PADRO	JACOBS ENGINEERING		NAVSTA LONG BEACH PRELIMINARY DRAFT COPY OF JACOBS TEAM IMPLEMENTATION PLAN (IP) FOR INVESTIGATION OF POSSIBLE SOIL/GROUND WATER CONTAMINATION AT MILCON	ADMIN RECORD	GW SAP	3	SOUTHWEST DIVISION
N68311 CLTR N6871189D9296 0250	000287 04/26/90 00017 03.3	09/21/94 B.W.C. WONG SOUTHWEST DIVISION H. PADRO	JACOBS ENGINEERING		NAVSTA/NSY LONG BEACH CONTRACT TASK ORDER #0017 SITE INSPECTION (SI) WORK PLAN, INCLUDING THE FIELD QA/QC AND THE SITE HEALTH & SAFETY PLAN (DRAFT)	ADMIN RECORD	SI QA QC HAZ WASTE SAP GW H&SP IAS SARA CERCLA RI FS	1 2 3 4 5 6 7	SOUTHWEST DIVISION
N68311 MISC 000000000000000 0002	000309 10/17/90 00000 01.1	09/23/94 NAVSTA LONG BEACH HISTORY OF INSTALLATION RESTORATION PROGRAM (IRP)			ADMIN RECORD	IRP GW HAZ WASTE IAS SI	1 2 3 4 5	SOUTHWEST DIVISION	
N68311 RPT N6871189D9296 0150	000047 10/31/90 00017 03.3	08/23/94 SOUTHWEST DIVISION	JACOBS ENGINEERING		NAVSTA LONG BEACH INSTALLATION RESTORATION PROGRAM FINAL DRAFT SITE INSPECTION WORK PLAN, INCLUDING THE FIELD QA/QC PLAN & THE SITE HEALTH & SAFETY PLAN	ADMIN RECORD	H&SP QA QC SI IRP	1 2 3 4 5 6 7A	SOUTHWEST DIVISION
N68311 RPT N6871189D9296 0150	000058 04/08/91 00017 03.3	08/23/94 SOUTHWEST DIVISION	SOUTHWEST DIVISION		NAVSTA LONG BEACH INSTALLATION RESTORATION PROGRAM (IRP) FINAL SITE INSPECTION (SI) WORK PLAN INCL FIELD QA/QC PLAN AND THE SITE SAFETY & HEALTH PLAN (SSHP)	ADMIN RECORD	H&SP SI QA QC IRP	1 2 3 4 5 6 7A	SOUTHWEST DIVISION
N68311 RPT N6871189D9296 0012	000062 07/03/91 00017 03.3	08/24/94 NAVSTA LONG BEACH	SOUTHWEST DIVISION		NAVSTA/NSY LONG BEACH INSTALLATION RESTORATION PROGRAM (IRP) RESPONSE TO CA DEPARTMENT OF HEALTH SERVICES REVIEW COMMENTS ON THE SITE INSPECTION (SI) WORK PLAN	ADMIN RECORD	SI RCRA PERMIT IRP COMMENTS	1 2 4 5 6A 9 10 13	SOUTHWEST DIVISION

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N68311	000063	08/24/94	NAVSTA LONG BEACH	NAVSTA/NSY LONG BEACH FINAL REVISED IR PROGRAM SI	ADMIN RECORD	RCRA	1	SOUTHWEST DIVISION		
CLTR		07/23/91	J.L. SNYDER	WORKPLAN & CA DHS COMMENTS & RCRA CROSS REF (SEE DOC		SI	2			
N6871189D9296	00017		RWQCB	NO 000062 FOR COMMENTS)(SEE DOC 246 FOR SI WORKPLAN)		PERMIT	4			
0001	03.3		J. ROSS			COMMENTS	5			
						IRP	6A			
							9			
							10			
							13			
N68311	000324	09/23/94	JACOBS ENGINEERING	NAVSTA/NSY LONG BEACH SITE INSPECTION REPORT STATUS	ADMIN RECORD	SI	3	SOUTHWEST DIVISION		
MM		02/25/92		UPDATE SITE INSPECTION (SI) (HELD 01/28/92)		RFI	6			
0000000000000000	00122					LAB	9			
0003	01.2					DATA	10			
						SMP				
						GW				
						PCB				
						RI				
						QC				
N68311	000321	09/23/94	SOUTHWEST DIVISION	NAVSTA LONG BEACH INSTALLATION RESTORATION PROGRAM	ADMIN RECORD	IRP	1	SOUTHWEST DIVISION		
RPT		05/08/92		(IRP) SITE INSPECTION (SI) REPORT (VOLUME 1)		SI	2			
N6871189D9296	00122					PERMIT	3			
0150	01.2					RCRA	4			
						HAZ WASTE	5			
						IAS	6			
						GW	7A			
						WATER				
						QC				
						MONITORING				
						WELLS				
						H&SP				
						LAB				
						QA				
						DATA				
						SB				
						CERCLA				
						SARA				
N68311	000336	09/23/94	NAVSTA LONG BEACH	NAVSTA LONG BEACH DISCOVERY OF CONTAMINATION AT THE	ADMIN RECORD		3	SOUTHWEST DIVISION		
LTR		07/13/92	J.L. SNYDER	MOLE						
0000000000000000	00000		DTSC							
0003	01.1		J. ZARNOCH							
N68311	000255	09/08/94	DTSC	NAVSTA LONG BEACH RCRA CORRECTIVE ACTION, NEWLY	ADMIN RECORD	RCRA	3	SOUTHWEST DIVISION		
LTR		07/21/92	M.S. SANDHU	IDENTIFIED SOLID WASTE MANAGEMENT UNIT (SWMU)		SWMU				
0000000000000000	00000		NAVSTA LONG BEACH			CHAR				
0003	01.1		J.L. SNYDER			RFI				
						RI				

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N68311 RPT 000000000000000 0002	000076 07/29/92 00000 01.2	08/24/94		PORT OF LONG BEACH INSTALLATION RESTORATION PROGRAM (IRP) - DRAFT SITE INSPECTION (SI) REPORT (VOLUME 1) (PRELIMINARY COMMENTS)	ADMIN RECORD	SI GW DATA COMMENTS IRP	1 2 3 4	SOUTHWEST DIVISION
N68311 CLTR 000000000000000 0016	000075 09/04/92 00122 10.4	08/24/94	NAVSTA/NSY LB DISTRIBUTION	NAVSTA/NSY LONG BEACH TRANSMITTAL OF TECHNICAL REVIEW COMMITTEE (TRC) MEETING MINUTES CTO 122 AND CTO 123 SITE INSPECTION (SI) (HELD 07/30/92)	ADMIN RECORD	TRC SI DATA RCRA CERCLA	13	SOUTHWEST DIVISION
N68311 RPT N6871189D9296 0250	000087 11/14/92 00122 01.2	08/25/94	SOUTHWEST DIVISION	NAVSTA LONG BEACH INSTALLATION RESTORATION PROGRAM (IRP) FINAL SITE INSPECTION (SI) REPORT (VOLUME 1)	ADMIN RECORD INFO REPOSITORY	SI HAZMAT GW CERCLA IRP	1 2 3 4 5 6 7A	SOUTHWEST DIVISION
N68311 MM 000000000000000 0004	000344 12/10/92 00000 01.1	09/29/94	JACOBS ENGINEERING P. TORREY	NAVAL COMPLEX LONG BEACH SITE MANAGEMENT PLAN (SMP) LAND USE MEETING NO. 1 (HELD 11/2/92)	ADMIN RECORD	SMP BRAC	1 2 3 4 5 6 6B	SOUTHWEST DIVISION
N68311 RPT N6871189D9296 0400	000284 09/13/93 00249 03.1	09/21/94	SOUTHWEST DIVISION	NAVSTA LONG BEACH INSTALLATION RESTORATION PROGRAM (IRP) REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) FINAL SAMPLING AND ANALYSIS PLAN (SAP)	ADMIN RECORD INFO REPOSITORY	GW SAP PERMIT WMP DMP WELLS MONITORING QA SB H&SP RI FS QC QAPP	1 2 3 4 5 6A 7	SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0005	000140 12/18/93 00015 03.0	08/29/94	BECHTEL NATIONAL K. KAPUR	NAVAL COMPLEX LONG BEACH DRAFT INVESTIGATION DERIVED WASTE (IDW) MANAGEMENT PLAN CTO-0015,0016,0026	ADMIN RECORD	IDWMP RI FS GW LAB	1 2 3 4 5 6A 7	SOUTHWEST DIVISION

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N68311	000141	08/29/94	BECHTEL NATIONAL	NAVSTA LONG BEACH DRAFT RISK ASSESSMENT WORK PLAN	ADMIN RECORD	RA	1	SOUTHWEST DIVISION	
RPT	12/18/93	K. KAPUR	REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)			FS	2		
N6871192D4670	00015		SITES 1,2,3,4,5,6A AND 7			IRP	3		
0053	04.3					CERCLA	4		
						SARA	5		
						HAZ WASTE	6A		
						DERA	7		
						RCRA			
						RA			
N68311	000142	08/29/94	BECHTEL NATIONAL	NAVSTA LONG BEACH DRAFT DATA MANAGEMENT PLAN FOR	ADMIN RECORD	DMP	1	SOUTHWEST DIVISION	
RPT	12/18/93	K. KAPUR	CTO'S 015, 016, AND 026			DATA	2		
N6871192D4670	00015					RI	3		
0150	03.3					FS	4		
						OU			
						SAP			
						QAPP			
N68311	000147	08/29/94	NAVSTA LONG BEACH	NAVSTA LONG BEACH REVIEW OF PREDRAFT TECHNICAL	ADMIN RECORD	TECH MEMO	1	SOUTHWEST DIVISION	
LTR	12/28/93	T.S. ERICKSON	MEMORANDUM AERIAL PHOTOGRAPHY REVIEW AND GEOPHYSICAL			COMMENTS	2		
0000000000000000	00000	SOUTHWEST DIVISION	RECOMMENDATIONS FOR SITES 1,2,3, AND 6A				3		
0001	01.1	A.K. LEE					6A		
N68311	000155	08/29/94	BECHTEL NATIONAL	NAVSTA LONG BEACH DRAFT TECHNICAL MEMORANDUM AERIAL	ADMIN RECORD	TECH MEMO	1	SOUTHWEST DIVISION	
RPT	01/24/94	K. KAPUR	PHOTOGRAPHY REVIEW AND GEOPHYSICAL RECOMMENDATIONS			RI	2		
N6871192D4670	00015					FS	3		
0018	01.1					SAP	6A		
						OU			
N68311	000160	08/29/94	BECHTEL NATIONAL	NAVSTA LONG BEACH FINAL RISK ASSESSMENT WORK PLAN	ADMIN RECORD	RA	1	SOUTHWEST DIVISION	
RPT	01/30/94	K. KAPUR	REMEDIAL INVESTIGATION/FEASIBILITY STUDY SITES			RI	2		
N6871192D4670	00015		1,2,3,4,5,6A AND 7			FS	3		
0051	03.3					DATA	4		
						GW	5		
						CHAR	6A		
						IRP	7		
						CERCLA			
						SARA			
						DERA			
						DERA			
						RCRA			
N68311	000161	08/29/94	BECHTEL NATIONAL	NAVSTA LONG BEACH FINAL DATA MANAGEMENT PLAN FOR	ADMIN RECORD	DMP	1	SOUTHWEST DIVISION	
RPT	01/30/94	K. KAPUR	CTO'S 015, 016, AND 026			DATA	2		
N6871192D4670	00015					RI	3		
0143	03.3					FS	4		
						OU	5		
						GW	6A		
						SB	7A		
						LAB	7B		
						WATER			
						SAP			
						QAPP			

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N68311 RPT N6871192D4670 0005	000163 01/30/94 00015 03.3	08/29/94 01/30/94 00015 03.3	BECHTEL NATIONAL K. KAPUR		NAVAL COMPLEX LONG BEACH FINAL INVESTIGATION DERIVED WASTE (IDW) MANAGEMENT PLAN CTO'S 0015, 0016, AND 0026	ADMIN RECORD	WELLS GW SB HAZ WASTE IDWMP	1 2 3 4 5 6A 7	SOUTHWEST DIVISION
N68311 LTR N6871192D4670 0002	000167 02/04/94 00015 01.1	08/29/94 02/04/94 00015 01.1	EPA S.L. LAUTH NAVSTA/NSY LB		NAVSTA LONG BEACH REVIEW OF THE DRAFT TECHNICAL MEMORANDUM AERIAL PHOTOGRAPHY REVIEW AND GEOPHYSICAL RECOMMENDATIONS FOR SITES 1,2,3, AND 6A	ADMIN RECORD	TECH MEMO RI FS GW SB COMMENTS	1 2 3 6A	SOUTHWEST DIVISION
N68311 CLTR N6871192D4670 0004	000168 02/07/94 00015 01.1	08/29/94 02/07/94 00015 01.1	DTSC A.A. ARELLANO NAVSTA/NSY LB		NAVSTA LONG BEACH REVIEW OF DRAFT TECHNICAL MEMORANDUM AERIAL PHOTOGRAPHY REVIEW AND GEOPHYSICAL RECOMMENDATIONS FOR SITES 1,2,3, AND 6A	ADMIN RECORD	TECH MEMO COMMENTS	1 2 3 6A	SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0020	000169 02/18/94 00015 01.1	08/30/94 02/18/94 00015 01.1	BECHTEL NATIONAL K. KAPUR		NAVSTA LONG BEACH TECHNICAL MEMORANDUM NO. 3 FINAL TECHNICAL MEMORANDUM AERIAL PHOTOGRAPHY REVIEW AND GEOPHYSICAL RECOMMENDATIONS FOR SITES 1,2,3, AND 6A	ADMIN RECORD	TECH MEMO RI FS SAP OU	1 2 3 6A	SOUTHWEST DIVISION
N68311 PLAN 0000000000000000 0315	000856 03/01/94 00000 03.3	03/13/97 03/01/94 00000 03.3	NAVSTA LONG BEACH SOUTHWEST DIVISION		BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP PLAN	ADMIN RECORD	BRAC CLOSURE CLEANUP RA PCB VOC UST OU	1 2 3 4 5 6A 6B 7 OU 1 OU 2 OU 3 BLDG. 32 BLDG. 143 BLDG. 144 BLDG. 401 BLDG. 815 BLDG. 675	SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0018	000191 05/01/94 00015 04.3	08/30/94 05/01/94 00015 04.3	BECHTEL NATIONAL K. KAPUR		NAVAL COMPLEX LONG BEACH TECHNICAL MEMORANDUM NO. 2 REVISED FINAL TECHNICAL MEMORANDUM PROPOSED MODIFICATION TO FINAL RI/FS PLAN	ADMIN RECORD	RI FS TECH MEMO WELLS GW SAP	1 2 3 4 5 6A 7	SOUTHWEST DIVISION

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N68311 CLTR 000000000000000 0007	000193 05/05/94 00015 01.1	08/30/94 K. KAPUR SOUTHWEST DIVISION	BECHTEL NATIONAL K. KAPUR SOUTHWEST DIVISION	NAVSTA LONG BEACH PRELIMINARY FIELD DATA REVIEW FOR SITES 1 THROUGH 5 AND 6A (MISSING ENCL: CONCENTRATION MAPS)	ADMIN RECORD	DATA LAB RI FS MAP	1 2 3 4 5 6A	SOUTHWEST DIVISION
N68311 CLTR 000000000000000 0001	000194 05/05/94 00015 01.1	08/30/94 T.S. ERICKSON DISTRIBUTION	NAVSTA LONG BEACH T.S. ERICKSON DISTRIBUTION	NAVSTA LONG BEACH PRELIMINARY FIELD DATA REVIEW FOR SITES 1 THROUGH 5 AND 6A (MISSING ENCL: CONCENTRATION MAPS, SEE DOCUMENT NO. 000193 FOR PRELIM. DATA)	ADMIN RECORD	DATA LAB RI FS MAP	1 2 3 4 5 6A	SOUTHWEST DIVISION
N68311 CLTR N687119204670 0081	000203 05/18/94 00015 04.4	08/30/94 T.S. ERICKSON DISTRIBUTION	NAVSTA LONG BEACH T.S. ERICKSON DISTRIBUTION	NAVSTA LONG BEACH REVISED FINAL HEALTH AND SAFETY PLAN SUPPLEMENT	ADMIN RECORD	RI FS H&SP SB HAZ WASTE	1 2 3 4 5 6A 7	SOUTHWEST DIVISION
N68311 TEL 000000000000000 0001	000437 05/18/94 00015 03.1	10/04/94 D. MC NARY A. WINANS	NAVSTA LONG BEACH D. MC NARY A. WINANS	NAVSTA LONG BEACH CONTACT REPORT REGARDING PROPOSED CONTINGENT SAMPLING PLAN FOR IR SITES 1 THROUGH 5 AND 6A	ADMIN RECORD	SB	1 2 3 4 5 6A	SOUTHWEST DIVISION
N68311 LTR 000000000000000 0005	000216 06/22/94 00000 03.1	08/31/94 A. GUTIERREZ NAVSTA/NSY LB	DTSC A. GUTIERREZ NAVSTA/NSY LB	NAVSTA LONG BEACH COMMENTS TO PROPOSED PHASE II (CONTINGENT) SAMPLING - IR SITES 1 THROUGH 5 AND 6A	ADMIN RECORD	RI FS SAP WELLS SB DATA MONITORING COMMENTS	1 2 3 4 5 6A	SOUTHWEST DIVISION
N68311 MISC N687119204670 0002	000222 07/01/94 00015 03.3	08/31/94 K. KAPUR SOUTHWEST DIVISION A.K. LEE	BECHTEL NATIONAL K. KAPUR SOUTHWEST DIVISION A.K. LEE	NAVSTA LONG BEACH TRANSMITTAL OF DRAFT FINAL RI/FS RISK ASSESSMENT WORK PLAN (ENCL RI/FS RA WORK PLAN CAN BE FOUND WITH DOC NO. 000223)	ADMIN RECORD	RI FS RA	1 2 3 4 5 6A	SOUTHWEST DIVISION
N68311 LTR 000000000000000 0005	000904 01/27/95 00000 10.1	03/26/97 S. LAUTH SOUTHWEST DIVISION A. LEE	EPA SAN FRANCISCO S. LAUTH SOUTHWEST DIVISION A. LEE	COMMENTS ON DRAFT BRAC REALIGNMENT AND CLOSURE (BRAC) CLEANUP PLAN	ADMIN RECORD	COMMENTS BCP	PARCEL A PARCEL B 1 2 3 4 5 6A	SOUTHWEST DIVISION

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N68311 000904 continued

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N68311	000903	03/26/97	DTSC LONG BEACH	COMMENTS ON DRAFT BASE REALIGNMENT AND CLOSURE (BRAC)	ADMIN RECORD	COMMENTS	5	SOUTHWEST DIVISION
LTR		02/06/95	A. GUTIERREZ	CLEANUP PLAN NAVAL STATION, LONG BEACH		BCP	68	
0000000000000000		00000	SOUTHWEST DIVISION				BLDG. 8	
0006		10.1	A. LEE				BLDG. 32	

N68311	000857	03/13/97	BECHTEL NATIONAL INC	FINAL BRAC CLEANUP PLAN (REV. NO. 2)	ADMIN RECORD	BRAC	3	SOUTHWEST DIVISION
PLAN		02/24/95	K. KAPUR			CLEANUP	4	
N6871192D4670		00017	SOUTHWEST DIVISION			BCP	5	
0100		03.3	A. LEE			UST	6A	
						GW	7	
							OU 1	
							OU 2	
							OU 3	
							BLDG. 673	
							BLDG. 676	
							BLDG. 401	
							AOC 1	
							AOC 2	
							AOC 3	
							AOC 4	
							AOC 5	
							AOC 6	
							AOC 7	
							AOC 8	
							AOC 9	
							AOC 10	
							AOC 11	
							BLDG. 756	
							AOC 12	
							AOC 13	
							AOC 14	
							AOC 15	
							AOC 16	
							AOC 17	
							AOC 18	
							AOC 19	
							AOC 20	
							1	
							2	

N68311	000005	03/08/95	BNI	NAVSTA LONG BEACH, NAVHOSP LONG BEACH AND ASSOCIATED	ADMIN RECORD	BCP	1	SOUTHWEST DIVISION
CLTR		03/03/95	K. KAPUR	HOUSING FINAL BRAC CLEANUP PLAN (NO. 2)	INFO REPOSITORY	BRAC	2	
N6871192D4670		00017	A. LEE			AOC	3	
0075		10.0	SWD1V			ARAR	4	
						AST	5	
						CERCLA	6A	
						FFSRA		
						FOSL		
						FOST		
						SARA		
						UST		

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N68311 RPT N6871192D4670 0150	000681 06/16/95 00015 04.2	03/14/96 06/16/95 00015 04.2	BNI K.K. KAPUR SOUTHWEST DIVISION	NAVSTA LONG BEACH DRAFT FEASIBILITY STUDY (FS) REPORT INSTALLATION RESTORATION PROGRAM			ADMIN RECORD	CERCLA FS SARA RI	3		SOUTHWEST DIVISION
N68311 XMTL N6871192D4670 0022	000860 07/28/95 00015 03.4	03/25/97 07/28/95 00015 03.4	BECHTEL NATIONAL INC K. KAPUR VARIOUS AGENCIES	RI REPORT ERRATA LIST; SITES 1 THROUGH 5 AND 6A			ADMIN RECORD	RI CONTAM*	1 2 3 4 5 6A		SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0250	000754 08/11/95 00095 01.3	08/22/96 08/11/95 00095 01.3	BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION	DRAFT PRELIMINARY ASSESSMENT FOR THE AREAS OF POTENTIAL CONCERN			ADMIN RECORD	HAZ WASTE	AOPC 1 AOPC 2 AOPC 3 AOPC 4 AOPC 5 AOPC 6 AOPC 7 AOPC 8 AOPC 9 AOPC 10 AOPC 11 AOPC 12 AOPC 13 AOPC 14 AOPC 15 AOPC 16 AOPC 17 AOPC 18 AOPC 19 AOPC 20 1 2 3 4 5 6A 7		SOUTHWEST DIVISION
N68311 CLTR 0000000000000000 0016	000676 09/05/95 00000 03.4	11/16/95 09/05/95 00000 03.4	DTSC A. GUTIERREZ SOUTHWEST DIVISION M. RADECKI	NAVSTA LONG BEACH DRAFT REMEDIAL INVESTIGATION (RI) FOR SITES 1 THROUGH 6A			ADMIN RECORD	RI COMMENTS SI GW ARAR RISK	1 2 3 4 5 6A		SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0002	000811 09/14/95 00000 06.3	09/13/96 09/14/95 00000 06.3	SOUTHWEST DIVISION K. BAER DTSC LONG BEACH A. GUTIERREZ	REQUEST FOR CONCURRENCE THAT THE DRAFT RI REPORT FOR SITE 1-6A DATED MAY 17, 1995 SERVE AS THE NAVY'S REMOVAL SITE EVALUATION AT SITE 3, AOC 4			ADMIN RECORD	REQUEST RI REMOVAL EVALUATION RSE	3 AOC4		SOUTHWEST DIVISION

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N68311 LTR N6871192D4670 0003	000667	11/16/95 10/11/95 00000 03.4	DTSC A. GUTIERREZ SOUTHWEST DIVISION K. BAER		NAVSTA LONG BEACH COMMENTS TO REMOVAL ACTION AT INSTALLATION RESTORATION PROGRAM (IRP) SITE 3 AREA OF POTENTIAL CONCERN (AOPC) 4	ADMIN RECORD	IRP COMMENTS RI REMOVAL AOC CERCLA H&SP CEQA	3	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0002	000981	12/24/97 10/11/95 00000 10.1	EPA SAN FRANCISCO M. HAUSLADEN SOUTHWEST DIVISION D. ROLLEFSON		COMMENTS ON DRAFT PRELIMINARY ASSESSMENT FOR THE AREAS OF POTENTIAL CONCERN	ADMIN RECORD INFO REPOSITORY	COMMENTS ASSESSMENT	AOPC 5 AOPC 17 AOPC 13 AOPC 14 AOPC 18	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 LTR N6871192D4670 0002	000669	11/16/95 10/17/95 00000 04.1	SOUTHWEST DIVISION K. BAER DTSC A. GUTIERREZ		NAVSTA LONG BEACH IDENTIFICATION OF POTENTIAL STATE- ACTION-SPECIFIC ARARS FOR INSTALLATION RESTORATION (IR) SITE 3	ADMIN RECORD	ARAR NCP RI FS	3	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0002	000812	09/13/96 10/17/95 00000 06.3	SOUTHWEST DIVISION K. BAER DTSC LONG BEACH A. GUTIERREZ		REQUEST DTSC AS THE LEAD AGENCY FOR THE STATE OF CALIFORNIA TO IDENTIFY POTENTIAL STATE ACTION-SPECIFIC ARARS FOR IR SITE 3	ADMIN RECORD	REQUEST ARAR	3	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0001	000813	09/13/96 01/04/96 00000 06.3	SOUTHWEST DIVISION K. BAER DTSC LONG BEACH A. GUTIERREZ		EXPIRATION OF DTSC TIME FOR RESPONSE TO OCTOBER 17, 1997 REQUEST FOR ARARS	ADMIN RECORD	RESPONSE ARAR	3	SOUTHWEST DIVISION
N68311 RPT 0000000000000000 0250	000696	03/18/96 02/15/96 00000 02.4	SOUTHWEST DIVISION K. BAER DTSC A. GUTIERREZ		NAVSTA LONG BEACH DRAFT ENGINEERING EVALUATION/COST ANALYSIS NON-TIME CRITICAL REMOVAL ACTION FOR INSTALLATION RESTORATION PROGRAM SITE 3, AOC 4	ADMIN RECORD INFO REPOSITORY	EE/CA AOC CERCLA	3	SOUTHWEST DIVISION
N68311 LTR N6871192D4670 0001	000736	06/05/96 02/21/96 00000 04.1	SOUTHWEST DIVISION K. BAER DTSC A. GUTIERREZ		NAVSTA LONG BEACH IDENTIFICATION OF POTENTIAL STATE- ACTION-SPECIFIC ARARS FOR IR SITE 3 - NOTIFICATION THAT REVIEW PERIOD HAS PASSED - SEE DOC 000669	ADMIN RECORD	RI FS NCP	3	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0100	000743	08/21/96 03/12/96 00000 01.6	SOUTHWEST DIVISION A. LEE RWCQB H. MARLEY		NAVY REQUEST FOR EXCLUSION FROM MCL REQUIREMENTS WITH ENCLOSURE: TECHNICAL MEMO - EXAMINATION OF GROUNDWATER BENEFICIAL USES	ADMIN RECORD	GW	1 2 3 4 5 6A 6B	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0004	000746	08/21/96 03/22/96 00000 01.6	DTSC S. LEMIEUX SOUTHWEST DIVISION K. KESLER		COMMENTS ON THE FINDINGS OF SUITABILITY TO LEASE NAVY MOLE	ADMIN RECORD	COMMENTS FOSL	1,2,3,4,5 6,7	SOUTHWEST DIVISION

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N68311 000748 LTR 0000000000000000 0005	08/21/96 03/25/96 00000 01.6	DTSC S. LEMIEUX SOUTHWEST DIVISION K. KESLER	REVIEW OF ENVIRONMENTAL ASSESMENT FOR THE INTERIM LEASE OF THE NAVY MOLE	ADMIN RECORD	EA	1,2,3,4	SOUTHWEST DIVISION		
N68311 000815 MISC 0000000000000000 0003	09/13/96 03/27/96 00000 01.6	ROY F. WESTON, INC K. BRASACMLE EPA SAN FRANCISCO M. HAUSLADEN	COMMENTS ON DRAFT EE/CC NON-TIME CRITICAL REMOVAL ACTION FOR IRP SITE 3, AOC 4 (FAXED COPY OF DRAFT LTR) REFER DOCUMENT # 000749	ADMIN RECORD	COMMENTS EE/CA(*) NTCRA	3 AOC 4	SOUTHWEST DIVISION		
N68311 000749 LTR 0000000000000000 0003	08/21/96 04/03/96 00000 01.6	DTSC A.GUTIERREZ SOUTHWEST DIVISION K. BAER	COMMENTS ON DRAFT EECA NON-TIME CRITICAL RA FOR SITE 3 AND AREA OF CONCERN 4	ADMIN RECORD	COMMENTS ACTMEMO EE/CA(*)	3 AOC 4	SOUTHWEST DIVISION		
N68311 000751 LTR 0000000000000000 0003	08/21/96 04/08/96 00000 01.6	DTSC S. LEMIEUX SOUTHWEST DIVISION K. KESLER	COMMENTS ON DRAFT FINAL FINDING OF SUITABILITY TO LEASE, NAVY MOLE	ADMIN RECORD	FOSL	1,2,3,4,5 6A,7	SOUTHWEST DIVISION		
N68311 000939 PLAN N687119301459 0069	09/22/97 04/30/96 DO 68 03.5	OHM REMEDIATION R. MARGOTTO SOUTHWEST DIVISION	FINAL SITE HEALTH AND SAFETY PLAN - EXCAVATION AND REMOVAL OF CONTAMINATED SOIL, SITE 3, AOC 4 NAVSTA LONG BEACH	ADMIN RECORD INFO REPOSITORY	H&SP REMOVAL SOIL	3 AOC 4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.		
N68311 000768 RPT 0000000000000000 0700	08/27/96 05/01/96 00000 02.4	SOUTHWEST DIVISION K. BAER	FINAL EE/CA NTCRA FOR IR PROGRAM SITE 3, AREA OF CONCERN 4	ADMIN RECORD	EE/CA REMOVAL	3	SOUTHWEST DIVISION		
N68311 000770 MEMO 0000000000000000 0019	08/27/96 05/01/96 00000 02.5	SOUTHWEST DIVISION	DRAFT ACTION MEMORANDUM/REMOVAL ACTION WORK PLAN FOR REMOVAL ACTION FOR SITE 3, AOC 4	ADMIN RECORD	ACTMEMO REMOVAL	3	SOUTHWEST DIVISION		
N68311 000775 LTR 0000000000000000 0060	09/09/96 05/02/96 00000 02.4	SOUTHWEST DIVISION A. LEE DTSC LONG BEACH A. GUTIERREZ	REQUEST FOR RESPONSE SCHEDULE FINAL EE/CA SITE 3, AOC 4, COMMENT RESOLUTION FOR THE EE/CA & DRAFT ACTION MEMORANDUM FOR SITE 3 AOCA 4 W/ENCL	ADMIN RECORD	RESPONSE ACTMEMO EE/CA(*)	3 AOC 4	SOUTHWEST DIVISION		
N68311 000851 PLAN N687119204670 0012	03/13/97 05/13/96 0110 05.1	BECHTEL NATIONAL INC J. KLUESENER VARIOUS AGENCIES	DRAFT TECHNICAL MEMORANDUM PROPOSED PLANS AND RECORDS OF DECISION FOR IR SITES 1-5, 6A AND 7 DATED MAY 13, 1996	ADMIN RECORD	TECH MEMO ROD IRA	1 2 3 4 5 AOC 4 6A 7	SOUTHWEST DIVISION		

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N68311 RPT N6871192D4670 0450	000773	08/27/96 05/15/96 0094 03.4	BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION P.KENNEDY	FINAL UNDERGROUND STORAGE TANK SITE ASSESSMENT REPORT SUPPLEMENT BUILDING 32			ADMIN RECORD INFO REPOSITORY	UST SA			BLDG 32	SOUTHWEST DIVISION		
N68311 LTR 0000000000000000 0001	000816	09/13/96 06/06/96 00000 01.6	EPA SAN FRANCISCO M. HAUSLADEN SOUTHWEST DIVISION K. BAER	COMMENTS ON DRAFT ACTION MEMORANDUM/REMOVAL WORK PLAN IR SITE 3			ADMIN RECORD	COMMENTS ACTMEMO WORK PLAN			3	SOUTHWEST DIVISION		
N68311 LTR 0000000000000000 0003	000794	09/09/96 06/12/96 00000 01.6	DTSC LONG BEACH A. GUTIERREZ SOUTHWEST DIVISION K. BAER	DTSC CONCURRENCE WITH DRAFT ACTION MEMORANDUM REQUEST FOR ADDITIONAL REVISION			ADMIN RECORD	ACTMEMO			3 AOC4	SOUTHWEST DIVISION		
N68311 PLAN N6871192D4670 0075	000750	08/21/96 06/19/96 0112 03.5	BNI SAN DIEGO N. THOMAS SOUTHWEST DIVISION P. KENNEDY	FINAL HEALTH AND SAFETY PLAN SUPPLEMENT FOR GROUNDWATER MONITORING DATED JUNE 19, 1996			ADMIN RECORD INFO REPOSITORY	H&SP GW MONITORING			1,2,3,4,5 6A, 6B BLDG.8 BLDG.32	SOUTHWEST DIVISION PUBLIC LIBRARY L.B		
N68311 RPT N6871192D4670 0600	000755	08/22/96 06/20/96 00022 09.3	BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION	FINAL UNDERGROUND STORAGE TANK SITE ASSESSMENT REPORT FOR BUILDINGS 8 AND 32			ADMIN RECORD	SA UST			BLDG.8 BLDG.32	SOUTHWEST DIVISION PUBLIC LIBRARY L.B		
N68311 XMTL N6871192D4670 0050	000825	09/13/96 06/20/96 00037 10.1	BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION R. SELBY	RESPONSE TO COMMENTS FOR DRAFT RI DATED JUNE 12, 1996 AND JUNE 20, 1996 W/ENCL			ADMIN RECORD	RESPONSE COMMENTS RI			1 2 3 4 5 6A 6B	SOUTHWEST DIVISION		
N68311 RPT N6871192D4670 7000	000742	08/21/96 07/10/96 00015 03.4	BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION P. KENNEDY	FINAL RI REPORT FOR IR SITES I THROUGH 6A VOLUMES I THROUGH VII (W/RESPONSE TO COMMENTS ON THE DRAFT IR FROM DTSC)			ADMIN RECORD	RI IRP DISPOSAL			1,2,3,4,5 6A	SOUTHWEST DIVISION PUBLIC LIBRARY L.B		
N68311 LTR 0000000000000000 0002	000808	09/10/96 07/10/96 00000 10.1	SOUTHWEST DIVISION A. LEE DTSC LONG BEACH A. GUTIERREZ	NAVY'S RESPONSE TO COMMENTS AND THE FINAL ACTION MEMORANDUM FOR IR SITE 3, AOC 4 W/O ENCL			ADMIN RECORD	RESPONSE COMMENTS ACTMEMO			3 AOC 4	SOUTHWEST DIVISION		
N68311 LTR 0000000000000000 0002	000809	09/10/96 07/10/96 00000 01.6	SOUTHWEST DIVISION K. BAER DTSC LONG BEACH A. GUTIERREZ	REQUEST FOR LETTER OF ACCEPTANCE OF THE NAVY'S RESPONSE TO COMMENTS AND THE FINAL RI REPORT BY AUGUST 8, 1996 W/O ENCL			ADMIN RECORD	REQUEST RESPONSE RI			1 2 3 4 5 6A	SOUTHWEST DIVISION		

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N68311	000958	09/23/97	SOUTHWEST DIVISION	MEMO	07/12/96	K. BAER	PROPOSED SCHEDULE FOR SOIL EXCAVATION AT IR SITE 3, AOC 4, REQUEST COMMENTS/APPROVAL	ADMIN RECORD INFO REPOSITORY	COMMENTS SOIL ARSENIC REMOVAL DISPOSAL	3 AOC 4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311	000941	09/22/97	OHM REMEDIATION	PLAN	07/19/96	G. ALEXANDER	DRAFT CONSTRUCTION WORK PLAN, REMOVAL ACTION, IR SITE 3, AOC 4, NAVSTA (MISSING APPENDICES C & D, SEE DOC#000940-FINAL CWP FOR APPENDIX D)	ADMIN RECORD INFO REPOSITORY	WORK PLAN REMOVAL SOIL EXPOSURE DISPOSAL	3 AOC 4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N6871193D1459		DO#68	SOUTHWEST DIVISION	0200	03.3						
N68311	000945	09/23/97	OHM REMEDIATION	LTR	07/19/96	G. WILLIAMS	RESPONSE TO AGENCY COMMENTS ON DRAFT CONSTRUCTION WORK PLAN REMOVAL ACTION IR SITE 3, AOC 4 (REF. DOC. #000941)	ADMIN RECORD INFO REPOSITORY	RESPONSE COMMENTS WORK PLAN REMOVAL PRG CLEANUP BACKGROUND ARSENIC SOIL BRAC	3 AOC 4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N6871193D1459		DO 68	SOUTHWEST DIVISION	0021	10.1	K. BAER					
N68311	000761	08/22/96	SOUTHWEST DIVISION	LTR	07/23/96	A. LEE	REQUEST FOR LETTER ACCEPTING NAVY'S RESPONSES TO DTSC COMMENTS ON ENCLOSED ACTION MEMORANDUM BY AUGUST 8, 1996	ADMIN RECORD	ACTMEMO	3, AOC 4	SOUTHWEST DIVISION
N68311	000817	09/13/96	SOUTHWEST DIVISION	RPT	07/23/96	A. LEE	TRANSMITTAL OF THE FINAL ACTION MEMORANDUM FOR IR SITE 3, AOC 4: AND REQUEST FOR LETTER OF ACCEPTANCE W/ENCL	ADMIN RECORD	RESPONSE COMMENTS ACTMEMO	3 AOC 4	SOUTHWEST DIVISION
N6871192D4670		00112	SOUTHWEST DIVISION	0450	03.3						
N68311	000757	08/22/96	BNI SAN DIEGO	PLAN	07/25/96	K. KAPUR	DRAFT GROUNDWATER MONITORING WORK PLAN	ADMIN RECORD INFO REPOSITORY	GW	1,2,3,4	SOUTHWEST DIVISION PUBLIC LIBRARY L.B
N6871192D4670		00112	SOUTHWEST DIVISION	0450	03.3						
N68311	000766	08/22/96	BNI-LA	XMTL	07/29/96	K. KAPUR	CONTACT REPORT REGARDING RESOLUTION OF STATE AGENCY COMMENTS ON DRAFT RI FOR IR SITES 1 THROUGH 6A	ADMIN RECORD	COMMENTS RI	1,2,3,4,5 6A	SOUTHWEST DIVISION
N6871192D4670		15/16	SOUTHWEST DIVISION	0007	06.0	R. SELBY					
N68311	000959	09/23/97	OHM REMEDIATION	MISC	07/31/96		AGENDA FOR CONSTRUCTION WORK PLAN REVIEW MEETING REMOVAL ACTION IR SITE 3 AOC 4	ADMIN RECORD INFO REPOSITORY	WORK PLAN REMOVAL IR	3 AOC 4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N6871192D4670		00000	ATTENDEES	0001	01.6						
N68311	000818	09/13/96	DTSC LONG BEACH	LTR	08/06/96	A. GUTIERREZ	CONCURRENCE WITH THE FINAL ACTION MEMORANDUM FOR SITE 3, AOC 4	ADMIN RECORD	ACTMEMO	3 AOC 4	SOUTHWEST DIVISION
N6871192D4670		00000	SOUTHWEST DIVISION	0003	01.6	K. BAER					

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N68311 LTR 0000000000000000 0003	000819 08/11/96 00000 01.6	09/13/96 A. GUTIERREZ SOUTHWEST DIVISION K. BAER	APPROVAL OF RESOLUTION OF AUG.1, 1996 VERBAL COMMENTS TO THE NAVY DOCUMENTED IN MTG MINUTES. NO ADD'L COMMENTS OF DRAFT CONSTR. WORK PLAN RA/IR SITE 4 AOC 4	ADMIN RECORD	RESPONSE COMMENTS WORK PLAN AOC	3 AOC 4		SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0003	000961 08/11/96 00000 10.1	09/23/97 DTSC, LONG BEACH A. GUTIERREZ SOUTHWEST DIVISION K. BAER	DTSC CONCURRENCE WITH DRAFT CONSTRUCTION WORK PLAN REMOVAL ACTION, IR SITE 3, AOC 4 (REF. DOC. 000941)	ADMIN RECORD INFO REPOSITORY	WORK PLAN REMOVAL	3 AOC 4		SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 RPT N6871192D4670 0650	000771 08/21/96 0112 03.3	08/27/96 BNI SAN DIEGO J.W. KLUESENER SOUTHWEST DIVISION R. SELBY	DRAFT APPENDIX U SUPPLEMENTAL FIELD ACTIVITIES FOR IR SITES 1,2,3, AND 4	ADMIN RECORD INFO REPOSITORY	SAP GW EVALUATION	1 2 3 4		SOUTHWEST DIVISION
N68311 LTR N6871192D4670 0003	000824 08/27/96 00000 02.3	09/13/96 DTSC LONG BEACH A. GUTIERREZ SOUTHWEST DIVISION K. BAER	CONCURRENCE WITH THE FINAL EE/CA FOR IRP SITE 3, AOC 4	ADMIN RECORD	EE/CA(+) IRP	3 AOC 4		SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0031	000833 11/14/96 09/06/96 00112 03.4	BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION R. SELBY	BUILDING 32 SECOND QUARTER GROUNDWATER MONITORING REPORT FORMER NAVAL STATION LONG BEACH	ADMIN RECORD INFO REPOSITORY	GW MONITORING	BLDG. 32		SOUTHWEST DIVISION NAVSTA LONG BEACH
N68311 PLAN N6871193D1459 0250	000940 09/10/96 DO#68 03.3	09/22/97 OHM REMEDIATION G. ALEXANDER SOUTHWEST DIVISION	FINAL CONSTRUCTION WORK PLAN, REMOVAL ACTION, IR 3, AOC 4, NAVSTA LONG BEACH (MISSING APPENDIX C)	ADMIN RECORD INFO REPOSITORY	WORK PLAN RA BACKGROUND SOIL DISPOSAL ARSENIC CERCLA DATA	3 AOC 4		SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 LTR 0000000000000000 0002	000893 03/26/97 09/17/96 00000 10.1	SOUTHWEST DIVISION A. LEE DTSC LONG BEACH A. GUTIERREZ	RE CONCURRENCE OF FINAL CONSTRUCTION WORK PLAN, INSTALLATION RESTORATION SITE 3 AOC 4 W/O ENCL.	ADMIN RECORD	REQUEST WORK PLAN IR AOC	3 AOC 4		SOUTHWEST DIVISION
N68311 MEMO 0000000000000000 0002	000950 09/23/97 10/02/96 00000 10.1	CRWQCB LOS ANGELES J. ROSS DTSC LONG BEACH A. GUTIERREZ	CRWQCB COMMENTS ON DRAFT GROUNDWATER MONITORING WORK PLAN (REF. DOC. #000757)	ADMIN RECORD INFO REPOSITORY	COMMENTS GW MONITORING WORK PLAN DRY DOCK WELLS	1 3 4 AOPC 1 6A		SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 LTR 0000000000000000 0003	000890 03/26/97 10/07/96 00000 10.1	SOUTHWEST DIVISION A. LEE DTSC LONG BEACH A. GUTIERREZ	REQUEST FOR COMMENTS ON DRAFT CLOSE-OUT REPORT FOR INSTALLATION RESTORATION SITE 3, AOC 4 W/O ENCL.	ADMIN RECORD	REQUEST COMMENTS AOC CLOSURE IR	3 AOC 4		SOUTHWEST DIVISION

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N68311 RPT N6871193D1459 1200	000938 10/16/96 DO 68 03.4	09/22/97 10/16/96 DO 68 03.4	OHM REMEDIATION G. ALEXANDER SOUTHWEST DIVISION		DRAFT REMOVAL ACTION SITE CLOSURE REPORT ON IR SITE 3 AOC 4, NAVSTA LONG BEACH	ADMIN RECORD INFO REPOSITORY	REMOVAL RA ARAR SOIL EE\CA DATA DISPOSAL BACKGROUND ARSENIC	3 AOC 4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 MM 0000000000000000 0004	000953 10/24/96 00000 10.4	09/23/97 10/24/96 00000 10.4	OHM REMEDIATION K. WILLIAMS VARIOUS AGENCIES		OCTOBER 17, 1996 MEETING MINUTES FOR AGENCY REVIEW TELECONFERENCE FOR REMOVAL ACTION SITE CLOSURE REPORT, IR SITE 3, AOC 4	ADMIN RECORD INFO REPOSITORY	MTG MINS REMOVAL CLOSURE SOIL DRUMS DISPOSAL	3 AOC 4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 LTR 0000000000000000 0018	000885 10/28/96 00000 10.1	03/26/97 10/28/96 00000 10.1	DTSC LONG BEACH A. GUTIERREZ SOUTHWEST DIVISION K. OSTROUSKI		COMMENTS ON THE DRAFT GROUNDWATER MONITORING WORKPLAN (GWMWP), NAVAL STATION LONG BEACH	ADMIN RECORD	COMMENTS GW MONITORING WORK PLAN	5 OU 1 OU 2 AOC 1 AOC 4 1 3 4 6A	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0003	000884 10/29/96 00000 10.1	03/26/97 10/29/96 00000 10.1	DTSC LONG BEACH A. GUTIERREZ SOUTHWEST DIVISION K. BAER		CONCURRENCE ON THE FINAL CONSTRUCTION WORK PLAN REMOVAL ACTION IR SITE 3, AOC 4, NAVAL STATION LONG BEACH	ADMIN RECORD	RESPONSE AOC REMOVAL	3 AOC 4	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0001	000875 10/31/96 00000 10.1	03/25/97 10/31/96 00000 10.1	CRWQCB J. ROSS SOUTHWEST DIVISION D.ROLLEFSON		RECEIVED AND REVIEWED BUILDING 32 SECOND QUARTER GROUNDWATER MONITORING REPORT, REQUIRE NFA FOR GROUNDWATER	ADMIN RECORD	COMMENTS GW MONITORING	BLDG. 32	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0005	000883 11/05/96 00000 10.1	03/26/97 11/05/96 00000 10.1	OHM REMEDIATION SERV K. WILLIAMS SOUTHWEST DIVISION K. BAER		RESPONSE TO AGENCY COMMENTS ON DRAFT REMOVAL ACTION SITE CLOSURE REPORT, REMOVAL ACTION INSTALLATION RESTORATION SITE 3, AREA OF CONCERN 4	ADMIN RECORD	RESPONSE COMMENTS CLOSURE AOC REMOVAL	3 AOC 4	SOUTHWEST DIVISION
N68311 FAX 0000000000000000 0005	000960 11/05/96 00000 10.1	09/23/97 11/05/96 00000 10.1	OHM REMEDIATION K. WILLIAMS VARIOUS AGENCIES		AGENCY RESPONSE TO COMMENTS ON DRAFT REMOVAL ACTION SITE CLOSURE REPORT, REMOVAL ACTION IR SITE 3, AOC 4	ADMIN RECORD INFO REPOSITORY	RESPONSE COMMENTS REMOVAL SOIL DRUMS RI	3 AOC 4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.

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N68311 PLAN N6871192D4670 0500	000838 11/11/96 00112 03.3	11/21/96 11/11/96 00112 03.3	BECHTEL NATIONAL K. KAPUR SOUTHWEST DIVISION R. SELBY	FINAL GROUNDWATER MONITORING WORK PLAN				ADMIN RECORD	GW MONITORING WORK PLAN	1 2 3 4 6A 6B	SOUTHWEST DIVISION
N68311 RPT N6871193D1459 1035	000841 11/15/96 DO#68 03.3	03/13/97 11/15/96 DO#68 03.3	OHM REMEDIATION K. WILLIAMS SOUTHWEST DIVISION	FINAL REMOVAL ACTION SITE CLOSURE REPORT REMOVAL ACTION INSTALLATION RESTORATION SITE 3 AOC 4 REV. 0 VOLUME I OF II AND VOLUME II OF II				ADMIN RECORD INFO REPOSITORY	REMOVAL CLOSURE SOIL	3 AOC 4	SOUTHWEST DIVISION NAVSTA LONG BEACH
N68311 LTR 0000000000000000 1000	000882 03/26/97 00000 10.1	03/26/97 11/19/96 00000 10.1	DTSC LONG BEACH A. GUTIERREZ SOUTHWEST DIVISION K. OSTROWSKI	COMMENTS ON FINAL IR REPORTS FOR SITES 1 THROUGH 6A NAVAL STATION LONG BEACH				ADMIN RECORD	COMMENTS	1 2 3 4 5 6A	SOUTHWEST DIVISION
N68311 MM N6871192D4670 0004	000847 12/04/96 00123 10.4	03/13/97 12/04/96 00123 10.4	BECHTEL NATIONAL INC K. KAPUR VARIOUS AGENCIES	SEPTEMBER 10, 1996, MEETING MINUTES RE: KICK-OFF STRATEGY MEETING FOR LBNSY GROUNDWATER INVESTIGATION				ADMIN RECORD	MTG MINS GW INVESTIGATION VOC	9 3 12 13	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0001	000876 12/06/96 00000 10.1	03/25/97 12/06/96 00000 10.1	EPA SAN FRANCISCO M. HAUSLADEN SOUTHWEST DIVISION K. BAER	CONCURRENCE ON FINAL REMOVAL ACTION SITE CLOSURE SITE 3 AOPC 4				ADMIN RECORD	REMOVAL CLOSURE AOPC	3 AOPC 4	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0003	000863 12/10/96 00000 10.1	03/25/97 12/10/96 00000 10.1	SOUTHWEST DIVISION A. LEE DTSC LONG BEACH A. GUTIERREZ	TRANSMITTING FINAL REMOVAL ACTION SITE CLOSURE REPORT FOR INSTALLATION RESTORATION SITE 3, AOC 4 FOR REVIEW (REFER DOC# 000841 & DOC# 000842 FOR ENCL)				ADMIN RECORD	CLOSURE AOC	3 AOC 4	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0010	000878 12/11/96 00000 11.3	03/25/97 12/11/96 00000 11.3	CRWQCB MONTEREY J. ROSS SOUTHWEST DIVISION G. SIMON	WASTE DISCHARGE REQUIREMENTS RELATED TO UST EXCAVATION				ADMIN RECORD	MONITORING SOIL GW	BLDG. 129 BLDG. 215 BLDG. 132	SOUTHWEST DIVISION
N68311 PLAN N6817792D4670 0200	000839 12/24/96 00118 03.3	12/24/96 12/11/96 00118 03.3	BECHTEL NATIONAL INC J. KLUESENER VARIOUS AGENCIES	DRAFT BRAC CLEANUP PLAN (NO.4)-CTO-0118				ADMIN RECORD INFO REPOSITORY	BRAC CLEANUP BCP UST	1 2 3 4 5 6A AOPC 1 AOPC 2 AOPC 3 AOPC 4 AOPC 5 AOPC 6 AOPC 7 AOPC 8	SOUTHWEST DIVISION NAVSTA LONG BEACH

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N68311	000843	03/13/97	BECHTEL NATIONAL INC	LONG-TERM GROUNDWATER MONITORING PROGRAM FIRST QUARTER	ADMIN RECORD	GW	1	SOUTHWEST DIVISION
RPT		02/14/97	K. KAPUR	GROUNDWATER MONITORING REPORT FORMER NAVAL STATION	INFO REPOSITORY	MONITORING	2	NAVSTA LONG BEACH
N6871192D4670		00112	VARIOUS AGENCIES	LONG BEACH			3	
0500		03.4					4	

6A
6B
AOPC 4
AOPC 2
AOPC 8

N68311	000845	03/13/97	BECHTEL NATIONAL INC	BRAC CLEANUP PLAN (BCP) FOR NAVAL STATION LONG BEACH,	ADMIN RECORD	BRAC	1	SOUTHWEST DIVISION
PLAN		03/01/97	J. KLUESENER	NAVAL HOSPITAL AND ASSOCIATED HOUSING (VERSION NO.4)		CLEANUP	2	
N6871192D4670		00118	SOUTHWEST DIVISION	DATED MARCH 1997		BCP	3	
0142		03.3	R. SELBY			IRP	4	

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6B
6A
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BLDG. 32
BLDG. 42
BLDG. 143
BLDG. 144
BLDG. 272
BLDG. 888
BLDG. 401
BLDG. 669
BLDG. 671
BLDG. 422
BLDG. 299
BLDG. 398
BLDG. 8
BLDG. 46
BLDG. 95
BLDG. 676
BLDG. 741
BLDG. 152
BLDG. 650
BLDG. 307
BLDG. 821
BLDG. 749
BLDG. 756
BLDG. 4
BLDG. 220
BLDG. 419
BLDG. 40
BLDG. 831

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 AOPC 16
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 AOPC 21
 AOPC 22

N68311	000915	04/03/97	DTSC LONG BEACH	REVIEW OF FINAL REMOVAL ACTION SITE CLOSURE REPORT FOR	ADMIN RECORD	REMOVAL CLOSURE	3	SOUTHWEST DIVISION
LTR		03/11/97	A. GUTIERREZ	SITE 3, AREA OF CONCERN 4		AOC	AOC 4	
0000000000000000		00000	SOUTHWEST DIVISION			IR		
0003		02.0	K. BAER			COMMENTS		
N68311	000913	04/03/97	DTSC LONG BEACH	REVIEW OF AMENDMENTS TO DRAFT APPENDIX U -	ADMIN RECORD	IRP	6A	SOUTHWEST DIVISION
LTR		03/13/97	A. GUTIERREZ	SUPPLEMENTAL ACTIVITIES FOR INSTALLATION RESTORATION		COMMENTS	1	
0000000000000000		00000	VARIOUS AGENCIES				2	
0003		01.6					3	
							4	
N68311	000922	05/05/97	BECHTEL NATIONAL INC	FINAL SUPPLEMENTAL ENVIRONMENTAL BASELINE SURVEY	ADMIN RECORD	EBS	1	SOUTHWEST DIVISION
RPT		03/20/97	J. KLESENER				2	
N687119204670		00111	SOUTHWEST DIVISION				3	
0075		02.1	R. SELBY				4	
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N68311	000926	05/13/97	BECHTEL NATIONAL INC	RPT	04/14/97	J. KLUESENER	FINAL APPENDIX U, SUPPLEMENTAL FIELD ACTIVITIES FOR	ADMIN RECORD	IRP	1	SOUTHWEST DIVISION
N687119204670	00112	03.4	VARIOUS AGENCIES	0350			IRP SITES 1, 2, 3, 4, AND 6A			2	
										3	
										4	
										6A	
N68311	000951	09/23/97	SOUTHWEST DIVISION	LTR	04/24/97	D. ROLLEFSON	REQUEST THAT ALL TIER PERMITTED EQUIPMENT FORMERLY	ADMIN RECORD	REQUEST	AOPC 10	SOUTHWEST DIVISION
0000000000000000	00000	01.6	VARIOUS AGENCIES	0004			LOCATED AT NAVSTA LONG BEACH BE WITHDRAWN FROM AGENCY	INFO REPOSITORY	PERMIT	AOPC 11	L. BCH PUBLIC LIB.
							DATABASE		BRAC	AOPC 5	
										AOPC 17	
										AOPC 21	
										AOPC 22	
										BLDG. 655	
										BLDG. 831	
N68311	000955	09/23/97	SOUTHWEST DIVISION	CLTR	04/30/97	K. OSTROWSKI	TRANSMITTAL OF REMEDIAL INVESTIGATION REPORT FOR IRP	ADMIN RECORD	RI	1	SOUTHWEST DIVISION
0000000000000000	00000	10.1	VARIOUS AGENCIES	0006			SITES 1 THROUGH 6A, FINAL APPENDIX U, SUPPLEMENTAL	INFO REPOSITORY	IRP	2	L. BCH PUBLIC LIB.
							FIELD ACTIVITIES FOR IRP SITES 1-4 & 6A (DOC. #000926)			3	
										4	
										5	
										6A	
N68311	000966	09/25/97	BECHTEL NATIONAL INC	RPT	06/30/97	K. KAPUR	DRAFT FINAL REMEDIAL INVESTIGATION REPORT IRP FOR	ADMIN RECORD	RI	7	SOUTHWEST DIVISION
N687119204670	00026	03.4	VARIOUS AGENCIES	3200			WEST BASIN (SITE 7)		IRP	OU 3	
							(VOLUMES I-IV)		WATER	7A	
									PCB	7B	
									SEDIMENTS	BLDG. 143	
									ARAR	BLDG. 144	
									HABITAT	BLDG. 145	
									DREDGING	PIER 9	
									PIPELINE	BLDG. 8	
									DISPOSAL	SHOP 3	
									DATA	SHOP 7	
									PESTICIDES	BLDG. 128	
									HERBICIDE	SHOP 41	
										SHOP 56	
										BLDG. 132	
										SHOP 38	
										SHOP 71	
										BLDG. 109	
										BLDG. 129	
										BLDG. 130	
										SHOP 72	
										3	
										DRY DOCK 1	
										DRY DOCK 2	
										DRY DOCK 3	
										BLDG. 162	
										BLDG. 150	
										BLDG. 104	
										BLDG. 800	

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N68311 RPT N6871192D4670 1200	000964 07/11/97 00112 01.1	09/23/97 K. KAPUR SOUTHWEST DIVISION R. SELBY	BECHTEL NATIONAL INC DRAFT SECOND QUARTER (BIANNUAL) GROUNDWATER MONITORING REPORT NAVSTA LONG BEACH	ADMIN RECORD	GW MONITORING DATA WELLS	1 2 3 4 6A AOPC 4 AOPC 2 AOPC 8 6B 5		SOUTHWEST DIVISION	
N68311 RPT N6871192D4670 0500	000969 10/22/97 09/19/97 00112 03.4	10/22/97 K. KAPUR VARIOUS AGENCIES	BECHTEL NATIONAL INC FINAL THIRD QUARTER GROUNDWATER MONITORING REPORT FORMER NAVAL STATION LONG BEACH	ADMIN RECORD INFO REPOSITORY	GW MONITORING	1 2 3 4 AOPC 4 AOPC 2 AOPC 8		SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 LTR 0000000000000000 0003	000977 12/24/97 10/08/97 00000 01.6	12/24/97 SOUTHWEST DIVISION K. OSTROWSKI VARIOUS AGENCIES	REQUEST THAT DTSC BE LEAD AGENCY FOR THE STATE OF CALIFORNIA ON IDENTIFICATION OF STATE ARARs FOR IR SITES 1,2,3,4,5, AND 6A	ADMIN RECORD INFO REPOSITORY	REQUEST ARAR IR	1 2 3 4 5 6A		SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 RPT N6871192D4670 1000	000970 11/26/97 11/06/97 00112 01.2	11/26/97 BECHTEL NATIONAL INC K. KAPUR VARIOUS AGENCIES	DRAFT FOURTH QUARTER (ANNUAL) GROUNDWATER MONITORING REPORT FORMER NAVAL STATION LONG BEACH	ADMIN RECORD INFO REPOSITORY	GW MONITORING IR	1 2 3 4 6A 6B AOPC 4 AOPC 2 AOPC 8 AOPC 3		SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 XMTL N6871192D4670 0031	000982 12/24/97 12/08/97 00123 10.4	12/24/97 BECHTEL NATIONAL INC K. KAPUR SOUTHWEST DIVISION R. SELBY	NOVEMBER 21, 1997, MEETING MINUTES REGARDING THE RESULTS OF SUPPLEMENTAL GROUNDWATER INVESTIGATION PROPOSED SOIL SAMPLING	ADMIN RECORD INFO REPOSITORY	MTG MINS RESULTS GW INVESTIGATION SOIL	9 12 13 BLDG. 128 BLDG. 129 BLDG. 130 BLDG. 131		SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 LTR 0000000000000000 0007	000992 03/16/98 01/05/98 00000 10.1	03/16/98 EPA SAN FRANCISCO M. HAUSLADEN SOUTHWEST DIVISION K. OSTROWSKI	COMMENTS ON DRAFT FEASIBILITY STUDY FOR INSTALLATION RESTORATION SITES 3,4, 5 AND 6A	ADMIN RECORD INFO REPOSITORY	COMMENTS FS IR	3 4 5 6A		SOUTHWEST DIVISION L. BCH PUBLIC LIB.	

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N68311	001001	03/16/98	EPA SAN FRANCISCO	COMMENTS ON THE DRAFT ADDENDUM TO FINAL GROUNDWATER	ADMIN RECORD	COMMENTS	9		SOUTHWEST DIVISION
LTR		01/08/98	M. HAUSLADEN	INVESTIGATION WORK PLAN (SUPPLEMENT TO THE RI) FOR	INFO REPOSITORY	GW	12		L. BCH PUBLIC LIB.
0000000000000000	00000		SOUTHWEST DIVISION	IRP SITES 9, 12, AND 13		INVESTIGATION	13		
0003	10.1		K. OSTROWSKI			WORK PLAN			
						RI			
N68311	001002	03/16/98	CRWQCB MONTEREY PARK	CONCURRENCE WITH THE NAVY'S RECOMMENDATIONS FOR THE	ADMIN RECORD	FS	3		SOUTHWEST DIVISION
LTR		01/13/98	J. ROSS	DRAFT FEASIBILITY STUDY FOR INSTALLATION RESTORATION	INFO REPOSITORY	IR	4		L. BCH PUBLIC LIB.
0000000000000000	00000		SOUTHWEST DIVISION	SITES 3,4,5 AND 6A			5		
0001	10.1		K. OSTROWSKI				6A		
N68311	001004	03/16/98	BECHTEL NATIONAL INC	FINAL FOURTH QUARTER (ANNUAL) GROUNDWATER MONITORING	ADMIN RECORD	GW	1		SOUTHWEST DIVISION
RPT		02/24/98	K. KAPUR	REPORT, FORMER NAVAL STATION, DATED FEBRUARY 1998	INFO REPOSITORY	MONITORING	2		L. BCH PUBLIC LIB.
N6871192D4670	00112		VARIOUS AGENCIES				3		
0900	01.2						4		
							6A		
N68311	001005	03/16/98	BECHTEL NATIONAL INC	FINAL SECOND QUARTER (BIANNUAL) GROUNDWATER MONITORING	ADMIN RECORD	GW	1		SOUTHWEST DIVISION
RPT		02/24/98	K. KAPUR	REPORT FORMER NAVAL STATION LONG BEACH	INFO REPOSITORY	MONITORING	2		L. BCH PUBLIC LIB.
N6871192D4670	00112		VARIOUS AGENCIES			AOPC	3		
0850	01.2					RESULTS	4		
							AOPC 2		
							AOPC 4		
							AOPC 8		

TOTAL RECORDS PRINTED: 128

REPORT SPECIFICATION FOR: RPT233

TITLE: NAVAL STATION LONG BEACH ADMINISTRATIVE RECORD FILE SITE 3

FILE: COMBINED Key Info. with Activity File

SELECTION CRITERIA:

[01] Site No. CONTAINS "3" & UIC.No. IS "N68311 "

SORT CRITERIA:

01 Doc. Date

PAGE BREAK LEVEL:

00 NO PAGEBREAK

TYPE REPORT FORM

PAPER COMBO KEY INFO(master activity rpt form)

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NAVAL STATION LONG BEACH ADMINISTRATIVE RECORD FILE SITE 4

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APPROX.#.OF.PAGES	EPA.CAT#	TO.SIGNATURE.....						
N68311 MISC 0000000000000000 0001	000814 00000 10.3	09/13/96 PUBLIC NOTICE	SOUTHWEST DIVISION	PUBLIC NOTICE "REMOVAL OF CONTAMINATED SOIL AT THE FORMER NAVAL STATION IR SITE 3, AOC 4"; NOTICE OF PUBLIC MEETING & COMMENT PERIOD	ADMIN RECORD	PUBNOT REMOVAL PIM EE/CA(*)	3 AOC 4	SOUTHWEST DIVISION
N68311 LTR N6747484C4771 0150	000014 02/11/86 00000 01.5	08/18/94 LEIGHTON & ASSOC. T.E. MILLS WESTERN DIVISION D. BLICK		NAVSTA LONG BEACH SITE CHARACTERIZATION FOR SOIL & GROUNDWATER CONTAMINATION FOR A PROPOSED SERVMART & TWO ALTERNATE SITES (P-049)	ADMIN RECORD	GW WATER FUEL CHAR	4	SOUTHWEST DIVISION
N68311 LTR N6747484C4771 0001	000015 08/18/94 04/22/86 00000 01.5	WESTERN DIVISION J.R. COLLINS NEESA		NAVAL SUPPLY CENTER LONG BEACH FY 85 MCON PROJECT P-049, SERVMART	ADMIN RECORD		4	SOUTHWEST DIVISION
N68311 RPT 0000000000000000 0200	000245 09/07/94 10/01/86 00000 01.5	SCS ENGINEERS ASSOCIATED SOILS INC		NAVSTA LONG BEACH DRAFT REPORT PRELIMINARY HYDROGEOLOGICAL INVESTIGATION AND ENVIRONMENTAL ASSESSMENT OF U.S. NAVAL SERVMART	ADMIN RECORD	PA EA DRUMS FUEL IAS HAZ WASTE SB	4	SOUTHWEST DIVISION
N68311 CLTR N6247483C2208 0042	000291 09/21/94 10/21/86 00000 01.5	ASE S.Z. AHMAD WHITTLE-FORREST, INC G.A. FORREST		NAVSTA LONG BEACH REPORT OF PRELIMINARY FOUNDATION INVESTIGATION CONDUCTED ON THE SITE OF THE PROPOSED SERVMART AT THE NAVY MOLE	ADMIN RECORD	LAB SB	4	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0003	000025 08/22/94 12/05/86 00000 01.5	CODE 1141D CODE 92A		NAVSTA LONG BEACH SERVMART FY 1985 MCON P-049 CLEANUP REQUIREMENTS AND ALTERNATE MEASURES	ADMIN RECORD CONFIDENTIAL DOC	WMP COST	4	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0001	000026 08/22/94 12/08/86 00000 01.5	WESTERN DIVISION V. JEPSEN EPA N. MORGAN		NAVSTA LONG BEACH RECOMMENDATIONS AND ANALYTICAL DATA FOR SERVMART SITE (MISSING ENCL: RECOMMENDATIONS & ANALYTICAL DATA; SEE 000025 FOR WESTNAVFACENGCOM LTR)	ADMIN RECORD	DATA WMP	4	SOUTHWEST DIVISION
N68311 RPT 0000000000000000 0007	000258 09/08/94 02/26/87 00000 01.5	SCS ENGINEERS		NAVSTA LONG BEACH ANALYTICAL RESULTS FROM FIRST GROUNDWATER SAMPLING FOR SERVMART SITE (HANDWRITTEN NOTES)	ADMIN RECORD	GW LAB	4	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0013	000257 09/08/94 05/14/87 00000 01.5	SCS ENGINEERS A.S. CHILDRESS WHITTLE-FORREST, INC G. FORREST		NAVSTA LONG BEACH ANALYTICAL RESULTS FROM SECOND GROUND WATER SAMPLING FOR SERVMART SITE	ADMIN RECORD	GW MONITORING WELLS LAB WATER HAZMAT	4	SOUTHWEST DIVISION

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N68311 CLTR 000000000000000 0037	000243 04/13/89 00000 01.5	09/07/94 04/13/89 00000 01.5	SOILS ENGINEERING S.Z. AHMAD WHITTLE FORREST, INC G.A. FORREST	NAVSTA LONG BEACH SOILS INVESTIGATION OF PROPOSED U.S. NAVAL SERVMART LOCATION	ADMIN RECORD	HAZ WASTE SB LAB	4		SOUTHWEST DIVISION
N68311 RPT N6247483C2208 0074	000242 08/01/89 00000 01.5	09/07/94 08/01/89 00000 01.5	SCS ENGINEERS ASSOCIATED SOILS	NAVSTA LONG BEACH DRAFT SITE INVESTIGATION REPORT ALTERNATE SITE FOR THE PROPOSED SERVMART	ADMIN RECORD	SI SB TPH HAZ WASTE GW	4		SOUTHWEST DIVISION
N68311 CLTR N6871189D9296 0250	000287 04/26/90 00017 03.3	09/21/94 04/26/90 00017 03.3	JACOBS ENGINEERING B.W.C. WONG SOUTHWEST DIVISION H. PADRO	NAVSTA/NSY LONG BEACH CONTRACT TASK ORDER #0017 SITE INSPECTION (SI) WORK PLAN, INCLUDING THE FIELD QA/QC AND THE SITE HEALTH & SAFETY PLAN (DRAFT)	ADMIN RECORD	SI QA QC HAZ WASTE SAP GW H&SP IAS SARA CERCLA RI FS	1 2 3 4 5 6 7		SOUTHWEST DIVISION
N68311 LTR N6247489B6687 0010	000042 08/13/90 00000 01.5	08/23/94 08/13/90 00000 01.5	SOUTHWEST DIVISION D.N. SAKAMOTO DHS SCANDURA	NAVAL SUPPLY CENTER LONG BEACH CONTAMINATED SOILS REMOVAL FOR SERVMART	ADMIN RECORD	SB REMOVAL	4		SOUTHWEST DIVISION
N68311 MISC 000000000000000 0002	000309 10/17/90 00000 01.1	09/23/94 10/17/90 00000 01.1		NAVSTA LONG BEACH HISTORY OF INSTALLATION RESTORATION PROGRAM (IRP)	ADMIN RECORD	IRP GW HAZ WASTE IAS SI	1 2 3 4 5		SOUTHWEST DIVISION
N68311 RPT N6871189D9296 0150	000047 10/31/90 00017 03.3	08/23/94 10/31/90 00017 03.3	JACOBS ENGINEERING SOUTHWEST DIVISION	NAVSTA LONG BEACH INSTALLATION RESTORATION PROGRAM FINAL DRAFT SITE INSPECTION WORK PLAN, INCLUDING THE FIELD QA/QC PLAN & THE SITE HEALTH & SAFETY PLAN	ADMIN RECORD	H&SP QA QC SI IRP	1 2 3 4 5 6 7A		SOUTHWEST DIVISION
N68311 RPT N6871189D9296 0150	000058 04/08/91 00017 03.3	08/23/94 04/08/91 00017 03.3	SOUTHWEST DIVISION	NAVSTA LONG BEACH INSTALLATION RESTORATION PROGRAM (IRP) FINAL SITE INSPECTION (SI) WORK PLAN INCL FIELD QA/QC PLAN AND THE SITE SAFETY & HEALTH PLAN (SSHP)	ADMIN RECORD	H&SP SI QA QC IRP	1 2 3 4 5 6 7A		SOUTHWEST DIVISION

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N68311 RPT N6871189D9296 0012	000062 07/03/91 00017 03.3	08/24/94 07/03/91 00017 03.3	SOUTHWEST DIVISION NAVSTA LONG BEACH	NAVSTA/NSY LONG BEACH INSTALLATION RESTORATION PROGRAM (IRP) RESPONSE TO CA DEPARTMENT OF HEALTH SERVICES REVIEW COMMENTS ON THE SITE INSPECTION (SI) WORK PLAN	ADMIN RECORD	SI RCRA PERMIT IRP COMMENTS	1 2 4 5 6A 9 10 13		SOUTHWEST DIVISION
N68311 CLTR N6871189D9296 0001	000063 07/23/91 00017 03.3	08/24/94 07/23/91 00017 03.3	NAVSTA LONG BEACH J.L. SNYDER RWQCB J. ROSS	NAVSTA/NSY LONG BEACH FINAL REVISED IR PROGRAM SI WORKPLAN & CA DHS COMMENTS & RCRA CROSS REF (SEE DOC NO 000062 FOR COMMENTS)(SEE DOC 246 FOR SI WORKPLAN)	ADMIN RECORD	RCRA SI PERMIT COMMENTS IRP	1 2 4 5 6A 9 10 13		SOUTHWEST DIVISION
N68311 RPT N6871189D9296 0020	000292 12/24/91 00207 01.5	09/21/94 12/24/91 00207 01.5	SOUTHWEST DIVISION	NAVSTA LONG BEACH DRAFT WORK PLAN FOR COVERING AND INVESTIGATING SERVMART FACILITY MOLE PIER	ADMIN RECORD	SAP	4		SOUTHWEST DIVISION
N68311 LTR N6247489B6687 0003	000071 01/02/92 00000 01.5	08/24/94 01/02/92 00000 01.5	NAVSTA LONG BEACH J.L. SNYDER DHS J. ZARNOCH	NAVSTA LONG BEACH CONTAMINATED SOILS REMOVAL FOR SERVMART AT THE NAVAL SUPPLY CENTER, LONG BEACH ANNEX	ADMIN RECORD	SI SB REMOVAL	4		SOUTHWEST DIVISION
N68311 RPT N6871189D9296 0008	000262 01/07/92 00207 01.5	09/08/94 01/07/92 00207 01.5	SOUTHWEST DIVISION	NAVSTA LONG BEACH COVERING AND INVESTIGATION STOCKPILE SOIL SERVMART FACILITY, MOLE PIER DRAFT SOIL SAMPLING/ANALYSIS PLAN	ADMIN RECORD	SAP LAB	4		SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0003	000462 01/15/92 00000 01.5	10/04/94 01/15/92 00000 01.5	DTSC J. ZARNOCH NAVSTA LONG BEACH J.L. SNYDER	NAVSTA LONG BEACH RCRA CORRECTIVE ACTION: SERVMART SITE	ADMIN RECORD	PERMIT RCRA HAZ WASTE RFI UST TANK FUEL	4		SOUTHWEST DIVISION
N68311 RPT N6871189D9296 0200	000073 03/12/92 00207 01.5	08/24/94 03/12/92 00207 01.5	SOUTHWEST DIVISION	NAVSTA LONG BEACH COVERING AND INVESTIGATION STOCKPILE SOIL SERVMART FACILITY, MOLE PIER FINAL REPORT INCLUDING WORK PLAN & SOIL SAMPLING/ANALYSIS PLAN	ADMIN RECORD	QC SAP SI	4		SOUTHWEST DIVISION
N68311 RPT N6871189D9296 0150	000321 05/08/92 00122 01.2	09/23/94 05/08/92 00122 01.2	SOUTHWEST DIVISION	NAVSTA LONG BEACH INSTALLATION RESTORATION PROGRAM (IRP) SITE INSPECTION (SI) REPORT (VOLUME 1)	ADMIN RECORD	IRP SI PERMIT RCRA HAZ WASTE IAS GW	1 2 3 4 5 6 7A		SOUTHWEST DIVISION

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N68311 000321 continued

					WATER QC MONITORING WELLS H&SP LAB QA DATA SB CERCLA SARA		
N68311	000076	08/24/94		PORT OF LONG BEACH INSTALLATION RESTORATION PROGRAM	ADMIN RECORD	SI	1
RPT		07/29/92		(IRP) - DRAFT SITE INSPECTION (SI) REPORT (VOLUME 1)		GW	2
0000000000000000		00000		(PRELIMINARY COMMENTS)		DATA	3
0002		01.2				COMMENTS	4
						IRP	
N68311	000293	09/21/94	GROUNDWATER TECH	NAVSTA LONG BEACH SITE HEALTH AND SAFETY PLAN UNITED	ADMIN RECORD	H&SP	4
RPT		10/08/92		STATES NAVY SERVMART/MOLE PIER		WELLS	
N470892D3044		00000				GW	
0100		01.5					
N68311	000086	08/25/94	GROUNDWATER TECH	NAVSTA LONG BEACH FINAL SUMMARY REPORT MOLE	ADMIN RECORD	H&SP	4
LTR		11/13/92		PIER/SERVMART SOIL PILE		GW	
N470892D3044		00000	I BROWN				
0090		01.5					
N68311	000087	08/25/94	SOUTHWEST DIVISION	NAVSTA LONG BEACH INSTALLATION RESTORATION PROGRAM	ADMIN RECORD	SI	1
RPT		11/14/92		(IRP) FINAL SITE INSPECTION (SI) REPORT (VOLUME 1)	INFO REPOSITORY	HAZMAT	2
N6871189D9296		00122				GW	3
0250		01.2				CERCLA	4
						IRP	5
							6
							7A
N68311	000344	09/29/94	JACOBS ENGINEERING	NAVAL COMPLEX LONG BEACH SITE MANAGEMENT PLAN (SMP)	ADMIN RECORD	SMP	1
MM		12/10/92	P. TORREY	LAND USE MEETING NO. 1 (HELD 11/2/92)		BRAC	2
0000000000000000		00000					3
0004		01.1					4
							5
							6
							6B
N68311	000564	10/10/94	RWQCB	NAVSTA LONG BEACH REVIEW OF FINAL SUMMARY REPORT MOLE	ADMIN RECORD	SB	4
LTR		12/28/92	J.E. ROSS	PIER/SERVMART SOIL PILE		IRP	
0000000000000000		00000	NAVSTA LONG BEACH				
0001		01.5	J.L. SNYDER				

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N68311	000542	10/07/94	SOUTHWEST DIVISION	MEMO	12/31/92	A. MUCKERMAN	NAVSTA LONG BEACH INCLUSION OF SERVMART INTO SITE 4	ADMIN RECORD	RI FS RCRA HAZ WASTE PERMIT	4	SOUTHWEST DIVISION
0000000000000000	00000	01.5	Y.H. KIM	0001							
N68311	000543	10/07/94	NAVSTA LONG BEACH	LTR	01/07/93	J.L. SNYDER	NAVSTA LONG BEACH RESPONSE TO STATUS OF THE SERVMART DIRT PILE LETTER DATED 12/28/92	ADMIN RECORD	REMOVAL SI RI FS RCRA HAZ WASTE PERMIT	4	SOUTHWEST DIVISION
0000000000000000	00000	01.5	RWQCB J. ROSS	0002							
N68311	000347	09/29/94	JACOBS ENGINEERING	MM	04/19/93	K. BREWER	NAVAL COMPLEX LONG BEACH REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLANS DATA QUALITY OBJECTIVES FOR SITE 4 (HELD 03/19/93)	ADMIN RECORD	RI FS CHAR GW WATER PCB VOC	4	SOUTHWEST DIVISION
0000000000000000	00249	04.3		0009							
N68311	000115	08/26/94	CODE 1852.CL	MEMO	06/14/93	C. LEADON	NAVSTA/NSY LONG BEACH TECHNICAL REVIEWS OF THE DRAFT RI/FS WORK PLANS, DRAFT PRELIMINARY ASSESSMENT FOR SITE 6B AND DRAFT SITE MANAGEMENT PLAN	ADMIN RECORD	RI FS PA SMP IRA ARAR COMMENTS	6B 6A 1 2 4 7	SOUTHWEST DIVISION
0000000000000000	00000	04.3	CODE 1832.JJ J. JOYCE	0011							
N68311	000284	09/21/94	SOUTHWEST DIVISION	RPT	09/13/93		NAVSTA LONG BEACH INSTALLATION RESTORATION PROGRAM (IRP) REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) FINAL SAMPLING AND ANALYSIS PLAN (SAP)	ADMIN RECORD INFO REPOSITORY	GW SAP PERMIT WMP DMP WELLS MONITORING QA SB H&SP RI FS QC QAPP	1 2 3 4 5 6A 7	SOUTHWEST DIVISION
N6871189D9296	00249	03.1		0400							
N68311	000140	08/29/94	BECHTEL NATIONAL	RPT	12/18/93	K. KAPUR	NAVAL COMPLEX LONG BEACH DRAFT INVESTIGATION DERIVED WASTE (IDW) MANAGEMENT PLAN CTO-0015,0016,0026	ADMIN RECORD	IDWMP RI FS GW LAB	1 2 3 4 5 6A 7	SOUTHWEST DIVISION
N6871192D4670	00015	03.0		0005							

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N68311 RPT N6871192D4670 0053	000141 12/18/93 00015 04.3	08/29/94	BECHTEL NATIONAL K. KAPUR	NAVSTA LONG BEACH DRAFT RISK ASSESSMENT WORK PLAN REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) SITES 1,2,3,4,5,6A AND 7	ADMIN RECORD	RA FS IRP CERCLA SARA HAZ WASTE DERA RCRA RA	1 2 3 4 5 6A 7			SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0150	000142 12/18/93 00015 03.3	08/29/94	BECHTEL NATIONAL K. KAPUR	NAVSTA LONG BEACH DRAFT DATA MANAGEMENT PLAN FOR CTO'S 015, 016, AND 026	ADMIN RECORD	DMP DATA RI FS OU SAP QAPP	1 2 3 4			SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0075	000849 01/05/94 00041 04.2	03/13/97	BECHTEL NATIONAL INC K. KAPUR SOUTHWEST DIVISION	FINAL CERFA ENVIRONMENTAL BASELINE SURVEY (EBS) FOR NAVAL HOSPITAL LONG BEACH	ADMIN RECORD	CERFA EBS UST	BLDG. 9024 PARCEL A PARCEL B			SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0002	000151 01/13/94 00000 10.0	08/29/94	NAVSTA LONG BEACH T.S. ERICKSON SOUTHWEST DIVISION A.K. LEE	NAVSTA LONG BEACH FINAL CERFA ENVIRONMENTAL BASELINE SURVEY (EBS) (COMMENTS)	ADMIN RECORD	EBS RI FS UST TANK COMMENTS	2 4 6A 6B			SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0016	000158 01/30/94 00015 04.3	08/29/94	BECHTEL NATIONAL K. KAPUR	NAVSTA LONG BEACH FINAL TECHNICAL MEMORANDUM PROPOSED MODIFICATION TO FINAL REMEDIAL INVESTIGATION FEASIBILITY STUDY RI/FS PLAN	ADMIN RECORD	TECH MEMO RI FS WELLS GW	4 6A 7			SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0051	000160 01/30/94 00015 03.3	08/29/94	BECHTEL NATIONAL K. KAPUR	NAVSTA LONG BEACH FINAL RISK ASSESSMENT WORK PLAN REMEDIAL INVESTIGATION/FEASIBILITY STUDY SITES 1,2,3,4,5,6A AND 7	ADMIN RECORD	RA RI FS DATA GW CHAR IRP CERCLA SARA DERA RCRA	1 2 3 4 5 6A 7			SOUTHWEST DIVISION

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N68311	000161	08/29/94	BECHTEL NATIONAL	NAVSTA LONG BEACH FINAL DATA MANAGEMENT PLAN FOR	ADMIN RECORD	DMP	1	SOUTHWEST DIVISION	
RPT		01/30/94	K. KAPUR	CTO'S 015, 016, AND 026		DATA	2		
N6871192D4670		00015				RI	3		
0143		03.3				FS	4		
						OU	5		
						GW	6A		
						SB	7A		
						LAB	7B		
						WATER			
						SAP			
						QAPP			
N68311	000163	08/29/94	BECHTEL NATIONAL	NAVAL COMPLEX LONG BEACH FINAL INVESTIGATION DERIVED	ADMIN RECORD	WELLS	1	SOUTHWEST DIVISION	
RPT		01/30/94	K. KAPUR	WASTE (IDW) MANAGEMENT PLAN CTO'S 0015, 0016, AND 0026		GW	2		
N6871192D4670		00015				SB	3		
0005		03.3				HAZ WASTE	4		
						IDWMP	5		
							6A		
							7		
N68311	000856	03/13/97	NAVSTA LONG BEACH	BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP PLAN	ADMIN RECORD	BRAC	1	SOUTHWEST DIVISION	
PLAN		03/01/94				CLOSURE	2		
0000000000000000		00000	SOUTHWEST DIVISION			CLEANUP	3		
0315		03.3				RA	4		
						PCB	5		
						VOC	6A		
						UST	6B		
						OU	7		
							OU 1		
							OU 2		
							OU 3		
							BLDG. 32		
							BLDG. 143		
							BLDG. 144		
							BLDG. 401		
							BLDG. 815		
							BLDG. 675		
N68311	000191	08/30/94	BECHTEL NATIONAL	NAVAL COMPLEX LONG BEACH TECHNICAL MEMORANDUM NO. 2	ADMIN RECORD	RI	1	SOUTHWEST DIVISION	
RPT		05/01/94	K. KAPUR	REVISED FINAL TECHNICAL MEMORANDUM PROPOSED		FS	2		
N6871192D4670		00015		MODIFICATION TO FINAL RI/FS PLAN		TECH MEMO	3		
0018		04.3				WELLS	4		
						GW	5		
						SAP	6A		
							7		
N68311	000193	08/30/94	BECHTEL NATIONAL	NAVSTA LONG BEACH PRELIMINARY FIELD DATA REVIEW FOR	ADMIN RECORD	DATA	1	SOUTHWEST DIVISION	
CLTR		05/05/94	K. KAPUR	SITES 1 THROUGH 5 AND 6A (MISSING ENCL: CONCENTRATION		LAB	2		
0000000000000000		00015	SOUTHWEST DIVISION	MAPS)		RI	3		
0007		01.1				FS	4		
						MAP	5		
							6A		

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N68311	000194	08/30/94	NAVSTA LONG BEACH	NAVSTA LONG BEACH PRELIMINARY FIELD DATA REVIEW FOR	ADMIN RECORD	DATA	1	SOUTHWEST DIVISION	
CLTR	05/05/94	T.S. ERICKSON		SITES 1 THROUGH 5 AND 6A (MISSING ENCL: CONCENTRATION		LAB	2		
0000000000000000	00015	DISTRIBUTION		MAPS, SEE DOCUMENT NO. 000193 FOR PRELIM. DATA)		RI	3		
0001	01.1					FS	4		
						MAP	5		
							6A		
N68311	000203	08/30/94	NAVSTA LONG BEACH	NAVSTA LONG BEACH REVISED FINAL HEALTH AND SAFETY	ADMIN RECORD	RI	1	SOUTHWEST DIVISION	
CLTR	05/18/94	T.S. ERICKSON		PLAN SUPPLEMENT		FS	2		
N6871192D4670	00015	DISTRIBUTION				H&SP	3		
0081	04.4					SB	4		
						HAZ WASTE	5		
							6A		
							7		
N68311	000437	10/04/94	NAVSTA LONG BEACH	NAVSTA LONG BEACH CONTACT REPORT REGARDING PROPOSED	ADMIN RECORD	SB	1	SOUTHWEST DIVISION	
TEL	05/18/94	D. MC NARY		CONTINGENT SAMPLING PLAN FOR IR SITES 1 THROUGH 5 AND			2		
0000000000000000	00015			6A			3		
0001	03.1	A. WINANS					4		
							5		
							6A		
N68311	000216	08/31/94	DTSC	NAVSTA LONG BEACH COMMENTS TO PROPOSED PHASE II	ADMIN RECORD	RI	1	SOUTHWEST DIVISION	
LTR	06/22/94	A. GUTIERREZ		(CONTINGENT) SAMPLING - IR SITES 1 THROUGH 5 AND 6A		FS	2		
0000000000000000	00000	NAVSTA/NSY LB				SAP	3		
0005	03.1					WELLS	4		
						SB	5		
						DATA	6A		
						MONITORING			
						COMMENTS			
N68311	000222	08/31/94	BECHTEL NATIONAL	NAVSTA LONG BEACH TRANSMITTAL OF DRAFT FINAL RI/FS	ADMIN RECORD	RI	1	SOUTHWEST DIVISION	
MISC	07/01/94	K. KAPUR		RISK ASSESSMENT WORK PLAN (ENCL RI/FS RA WORK PLAN		FS	2		
N6871192D4670	00015	SOUTHWEST DIVISION		CAN BE FOUND WITH DOC NO. 000223)		RA	3		
0002	03.3	A.K. LEE					4		
							5		
							6A		
N68311	000904	03/26/97	EPA SAN FRANCISCO	COMMENTS ON DRAFT BRAC REALIGNMENT AND CLOSURE	ADMIN RECORD	COMMENTS	PARCEL A	SOUTHWEST DIVISION	
LTR	01/27/95	S. LAUTH		(BRAC) CLEANUP PLAN		BCP	PARCEL B		
0000000000000000	00000	SOUTHWEST DIVISION					1		
0005	10.1	A. LEE					2		
							3		
							4		
							5		
							6A		
							7		
N68311	000857	03/13/97	BECHTEL NATIONAL INC	FINAL BRAC CLEANUP PLAN (REV. NO. 2)	ADMIN RECORD	BRAC	3	SOUTHWEST DIVISION	
PLAN	02/24/95	K. KAPUR				CLEANUP	4		
N6871192D4670	00017	SOUTHWEST DIVISION				BCP	5		
0100	03.3	A. LEE				UST	6A		
						GW	7		

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N68311 000857 continued

OU 1
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OU 3
BLDG. 673
BLDG. 676
BLDG. 401
AOC 1
AOC 2
AOC 3
AOC 4
AOC 5
AOC 6
AOC 7
AOC 8
AOC 9
AOC 10
AOC 11
BLDG. 756
AOC 12
AOC 13
AOC 14
AOC 15
AOC 16
AOC 17
AOC 18
AOC 19
AOC 20
1
2

N68311	000005	03/08/95	BNI	NAVSTA LONG BEACH, NAVHOSP LONG BEACH AND ASSOCIATED	ADMIN RECORD	BCP	1	SOUTHWEST DIVISION
CLTR		03/03/95	K. KAPUR	HOUSING FINAL BRAC CLEANUP PLAN (NO. 2)	INFO REPOSITORY	BRAC	2	
N6871192D4670		00017	A. LEE			AOC	3	
0075		10.0	SWDIV			ARAR	4	
						AST	5	
						CERCLA	6A	
						FFSRA		
						FOSL		
						FOST		
						SARA		
						UST		
N68311	000860	03/25/97	BECHTEL NATIONAL INC	RI REPORT ERRATA LIST; SITES 1 THROUGH 5 AND 6A	ADMIN RECORD	RI	1	SOUTHWEST DIVISION
XMTL		07/28/95	K. KAPUR			CONTAM*	2	
N6871192D4670		00015	VARIOUS AGENCIES				3	
0022		03.4					4	

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N68311 000743 continued

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N68311	000746	08/21/96	DTSC	COMMENTS ON THE FINDINGS OF SUITABILITY TO LEASE NAVY MOLE	ADMIN RECORD	COMMENTS FOSL	1,2,3,4,5 6,7	SOUTHWEST DIVISION
LTR		03/22/96	S. LEMIEUX					
0000000000000000		00000	SOUTHWEST DIVISION					
0004		01.6	K. KESLER					
N68311	000747	08/21/96	DTSC	COMMENTS ON THE FINDINGS OF SUITABILITY TO LEASE NAVY MOLE FROM CRWQCB	ADMIN RECORD	COMMENTS FOSL	1,2,4 6A	SOUTHWEST DIVISION
LTR		03/25/96	S. LEMIEUX					
0000000000000000		00000	SOUTHWEST DIVISION					
0003		01.6	K. KESLER					
N68311	000748	08/21/96	DTSC	REVIEW OF ENVIRONMENTAL ASSESMENT FOR THE INTERIM LEASE OF THE NAVY MOLE	ADMIN RECORD	EA	1,2,3,4	SOUTHWEST DIVISION
LTR		03/25/96	S. LEMIEUX					
0000000000000000		00000	SOUTHWEST DIVISION					
0005		01.6	K. KESLER					
N68311	000815	09/13/96	ROY F. WESTON, INC	COMMENTS ON DRAFT EE/CC NON-TIME CRITICAL REMOVAL ACTION FOR IRP SITE 3, AOC 4 (FAXED COPY OF DRAFT LTR)	ADMIN RECORD	COMMENTS EE/CA(*) NTCRA	3 AOC 4	SOUTHWEST DIVISION
MISC		03/27/96	K. BRASACMLE					
0000000000000000		00000	EPA SAN FRANCISCO					
0003		01.6	M. HAUSLADEN					
N68311	000749	08/21/96	DTSC	COMMENTS ON DRAFT EECA NON-TIME CRITICAL RA FOR SITE 3 AND AREA OF CONCERN 4	ADMIN RECORD	COMMENTS ACTMEMO EE/CA(*)	3 AOC 4	SOUTHWEST DIVISION
LTR		04/03/96	A.GUTIERREZ					
0000000000000000		00000	SOUTHWEST DIVISION					
0003		01.6	K. BAER					
N68311	000751	08/21/96	DTSC	COMMENTS ON DRAFT FINAL FINDING OF SUITABILITY TO LEASE, NAVY MOLE	ADMIN RECORD	FOSL	1,2,3,4,5 6A,7	SOUTHWEST DIVISION
LTR		04/08/96	S. LEMIEUX					
0000000000000000		00000	SOUTHWEST DIVISION					
0003		01.6	K. KESLER					
N68311	000939	09/22/97	OHM REMEDIATION	FINAL SITE HEALTH AND SAFETY PLAN - EXCAVATION AND REMOVAL OF CONTAMINATED SOIL, SITE 3, AOC 4 NAVSTA LONG BEACH	ADMIN RECORD	H&SP REMOVAL SOIL	3 AOC 4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
PLAN		04/30/96	R. MARGOTTO		INFO REPOSITORY			
N6871193D1459		DO 68	SOUTHWEST DIVISION					
0069		03.5						
N68311	000775	09/09/96	SOUTHWEST DIVISION	REQUEST FOR RESPONSE SCHEDULE FINAL EE/CA SITE 3, AOC 4, COMMENT RESOLUTION FOR THE EE/CA & DRAFT ACTION MEMORANDUM FOR SITE 3 AOC 4 W/ENCL	ADMIN RECORD	RESPONSE ACTMEMO EE/CA(*)	3 AOC 4	SOUTHWEST DIVISION
LTR		05/02/96	A. LEE					
0000000000000000		00000	DTSC LONG BEACH					
0060		02.4	A. GUTIERREZ					
N68311	000851	03/13/97	BECHTEL NATIONAL INC	DRAFT TECHNICAL MEMORANDUM PROPOSED PLANS AND RECORDS OF DECISION FOR IR SITES 1-5, 6A AND 7 DATED MAY 13, 1996	ADMIN RECORD	TECH MEMO ROD IRA	1 2 3 4 5 AOC 4 6A 7	SOUTHWEST DIVISION
PLAN		05/13/96	J. KLUESENER					
N6871192D4670		0110	VARIOUS AGENCIES					
0012		05.1						

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UIC No.	DOC.NO.	PRC.DATE	FROM.....	DTSC CONCURRENCE WITH DRAFT ACTION MEMORANDUM REQUEST FOR ADDITIONAL REVISION	ADMIN RECORD	ACTMEMO	3 AOC4	SOUTHWEST DIVISION
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N68311 LTR 0000000000000000 0003	000794 06/12/96 00000 01.6	DTSC LONG BEACH A. GUTIERREZ SOUTHWEST DIVISION K. BAER	DTSC CONCURRENCE WITH DRAFT ACTION MEMORANDUM REQUEST FOR ADDITIONAL REVISION	ADMIN RECORD	ACTMEMO	3 AOC4	SOUTHWEST DIVISION	
N68311 PLAN N6871192D4670 0075	000750 06/19/96 0112 03.5	BNI SAN DIEGO N. THOMAS SOUTHWEST DIVISION P. KENNEDY	FINAL HEALTH AND SAFETY PLAN SUPPLEMENT FOR GROUNDWATER MONITORING DATED JUNE 19, 1996	ADMIN RECORD INFO REPOSITORY	H&SP GW MONITORING	1,2,3,4,5 6A, 6B BLDG.8 BLDG.32	SOUTHWEST DIVISION PUBLIC LIBRARY L.B	
N68311 XMTL N6871192D4670 0050	000825 06/20/96 00037 10.1	BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION R. SELBY	RESPONSE TO COMMENTS FOR DRAFT RI DATED JUNE 12, 1996 AND JUNE 20, 1996 W/ENCL	ADMIN RECORD	RESPONSE COMMENTS RI	1 2 3 4 5 6A 6B	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0002	000807 07/03/96 00000 06.3	SOUTHWEST DIVISION D. ROLLEFSON DTSC LONG BEACH A. GUTIERREZ	REQUEST FOR CONCURRENCE OF THE FINAL ADDITIONAL INVESTIGATION FIELD SAMPLING STRATEGY FOR AOPC 5 BUILDING 46 W/O ENCL	ADMIN RECORD	REQUEST INVESTIGATION	AOPC 5 BLDG. 46	SOUTHWEST DIVISION	
N68311 RPT N6871192D4670 7000	000742 07/10/96 00015 03.4	BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION P. KENNEDY	FINAL RI REPORT FOR IR SITES I THROUGH 6A VOLUMES I THROUGH VII (W/RESPONSE TO COMMENTS ON THE DRAFT IR FROM DTSC)	ADMIN RECORD	RI IRP DISPOSAL	1,2,3,4,5 6A	SOUTHWEST DIVISION PUBLIC LIBRARY L.B	
N68311 LTR 0000000000000000 0002	000808 07/10/96 00000 10.1	SOUTHWEST DIVISION A. LEE DTSC LONG BEACH A. GUTIERREZ	NAVY'S RESPONSE TO COMMENTS AND THE FINAL ACTION MEMORANDUM FOR IR SITE 3, AOC 4 W/O ENCL	ADMIN RECORD	RESPONSE COMMENTS ACTMEMO	3 AOC 4	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0002	000809 07/10/96 00000 01.6	SOUTHWEST DIVISION K. BAER DTSC LONG BEACH A. GUTIERREZ	REQUEST FOR LETTER OF ACCEPTANCE OF THE NAVY'S RESPONSE TO COMMENTS AND THE FINAL RI REPORT BY AUGUST 8, 1996 W/O ENCL	ADMIN RECORD	REQUEST RESPONSE RI	1 2 3 4 5 6A	SOUTHWEST DIVISION	
N68311 MEMO 0000000000000000 0001	000958 07/12/96 00000 01.6	SOUTHWEST DIVISION K. BAER VARIOUS AGENCIES	PROPOSED SCHEDULE FOR SOIL EXCAVATION AT IR SITE 3, AOC 4, REQUEST COMMENTS/APPROVAL	ADMIN RECORD INFO REPOSITORY	COMMENTS SOIL ARSENIC REMOVAL DISPOSAL	3 AOC 4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 LTR 0000000000000000 0004	000777 07/15/96 00000 10.1	DTSC LONG BEACH S. LEMIEUX PORT OF LONG BEACH G. KNATZ	COMMENTS ON THE PORT OF LONG BEACH PIER "I" MARINE TERMINAL DRAFT ENVIRONMENTAL IMPACT REPORT	ADMIN RECORD	EIR IRP	7 4	SOUTHWEST DIVISION	

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N68311 PLAN N6871193D1459 0200	000941	09/22/97 07/19/96 DO#68 03.3	OHM REMEDIATION G. ALEXANDER SOUTHWEST DIVISION	DRAFT CONSTRUCTION WORK PLAN, REMOVAL ACTION, IR SITE 3, AOC 4, NAVSTA (MISSING APPENDICES C & D, SEE DOC#000940-FINAL CWP FOR APPENDIX D)	ADMIN RECORD INFO REPOSITORY	WORK PLAN REMOVAL SOIL EXPOSURE DISPOSAL	3 AOC 4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 LTR N6871193D1459 0021	000945	09/23/97 07/19/96 DO 68 10.1	OHM REMEDIATION K. WILLIAMS SOUTHWEST DIVISION K. BAER	RESPONSE TO AGENCY COMMENTS ON DRAFT CONSTRUCTION WORK PLAN REMOVAL ACTION IR SITE 3, AOC 4 (REF. DOC. #000941)	ADMIN RECORD INFO REPOSITORY	RESPONSE COMMENTS WORK PLAN REMOVAL PRG CLEANUP BACKGROUND ARSENIC SOIL BRAC	3 AOC 4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 LTR 0000000000000000 0060	000761	08/22/96 07/23/96 00000 01.6	SOUTHWEST DIVISON A. LEE DTSC A. GUTIERREZ	REQUEST FOR LETTER ACCEPTING NAVY'S RESPONSES TO DTSC COMMENTS ON ENCLOSED ACTION MEMORANDUM BY AUGUST 8, 1996	ADMIN RECORD	ACTMEMO	3, AOC 4	SOUTHWEST DIVISION	
N68311 RPT 0000000000000000 0100	000817	09/13/96 07/23/96 00000 02.5	SOUTHWEST DIVISION A. LEE DTSC LONG BEACH A. GUTIERREZ	TRANSMITTAL OF THE FINAL ACTION MEMORANDUM FOR IR SITE 3, AOC 4: AND REQUEST FOR LETTER OF ACCEPTANCE W/ENCL	ADMIN RECORD	RESPONSE COMMENTS ACTMEMO	3 AOC 4	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0004	000764	08/22/96 07/24/96 00000 01.6	DTSC A. GUTIERREZ SOUTHWEST DIVISION D. ROLLEFSON	AGENCY CONCURRENCE WITH PROPOSED FIELD SAMPLING STRATEGY FOR AREAS OF POTENTIAL CONCERN #5 AND AREA 46	ADMIN RECORD	SAP VOC SB	AOPC 5 AREA 46	SOUTHWEST DIVISION	
N68311 PLAN N6871192D4670 0450	000757	08/22/96 07/25/96 00112 03.3	BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION	DRAFT GROUNDWATER MONITORING WORK PLAN	ADMIN RECORD INFO REPOSITORY	GW	1,2,3,4	SOUTHWEST DIVISION PUBLIC LIBRARY L.B	
N68311 XMTL N-6871192D4670 0007	000766	08/22/96 07/29/96 15/16 06.0	BNI-LA K. KAPUR SOUTHWEST DIVISION R. SELBY	CONTACT REPORT REGARDING RESOLUTION OF STATE AGENCY COMMENTS ON DRAFT RI FOR IR SITES 1 THROUGH 6A	ADMIN RECORD	COMMENTS RI	1,2,3,4,5 6A	SOUTHWEST DIVISION	
N68311 MISC 0000000000000000 0001	000959	09/23/97 07/31/96 00000 01.6	OHM REMEDIATION ATTENDEES	AGENDA FOR CONSTRUCTION WORK PLAN REVIEW MEETING REMOVAL ACTION IR SITE 3 AOC 4	ADMIN RECORD INFO REPOSITORY	WORK PLAN REMOVAL IR	3 AOC 4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 LTR 0000000000000000 0003	000818	09/13/96 08/06/96 00000 01.6	DTSC LONG BEACH A. GUTIERREZ SOUTHWEST DIVISION K. BAER	CONCURRENCE WITH THE FINAL ACTION MEMORANDUM FOR SITE 3, AOC 4	ADMIN RECORD	ACTMEMO	3 AOC 4	SOUTHWEST DIVISION	

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N68311 LTR 0000000000000000 0003	000819 08/11/96 00000 01.6	09/13/96 A. GUTIERREZ SOUTHWEST DIVISION K. BAER	APPROVAL OF RESOLUTION OF AUG.1, 1996 VERBAL COMMENTS TO THE NAVY DOCUMENTED IN MTG MINUTES. NO ADD'L COMMENTS OF DRAFT CONSTR. WORK PLAN RA/IR SITE 4 AOC 4		ADMIN RECORD	RESPONSE COMMENTS WORK PLAN AOC	3 AOC 4	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0003	000961 08/11/96 00000 10.1	09/23/97 DTSC, LONG BEACH A. GUTIERREZ SOUTHWEST DIVISION K. BAER	DTSC CONCURRENCE WITH DRAFT CONSTRUCTION WORK PLAN REMOVAL ACTION, IR SITE 3, AOC 4 (REF. DOC. 000941)		ADMIN RECORD INFO REPOSITORY	WORK PLAN REMOVAL	3 AOC 4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 RPT N6871192D4670 0650	000771 08/21/96 0112 03.3	08/27/96 BNI SAN DIEGO J.W. KLUESENER SOUTHWEST DIVISION R. SELBY	DRAFT APPENDIX U SUPPLEMENTAL FIELD ACTIVITIES FOR IR SITES 1,2,3, AND 4		ADMIN RECORD INFO REPOSITORY	SAP GW EVALUATION	1 2 3 4	SOUTHWEST DIVISION	
N68311 LTR N6871192D4670 0003	000824 08/27/96 00000 02.3	09/13/96 DTSC LONG BEACH A. GUTIERREZ SOUTHWEST DIVISION K. BAER	CONCURRENCE WITH THE FINAL EE/CA FOR IRP SITE 3, AOC 4		ADMIN RECORD	EE/CA(*) IRP	3 AOC 4	SOUTHWEST DIVISION	
N68311 RPT N6871192D46701 0300	000810 09/03/96 00095 01.3	09/12/96 BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION	FINAL ADDENDUM TO THE FINAL PRELIMINARY ASSESSMENT FOR THE AOPC		ADMIN RECORD	PA GW SOIL AIR	BLDG 46 BLDG 671 BLDG 756	SOUTHWEST DIVISION	
N68311 MM N6871192D4670 0004	000835 09/03/96 00095 01.6	11/14/96 BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION R. SELBY	AUGUST 21, 1996 MEETING MINUTES REGARDING ADDITIONAL INVESTIGATION AT AOPC 5, BUILDING 46		ADMIN RECORD	MTG MINS INVESTIGATION	AOPC 5 BLDG. 46	SOUTHWEST DIVISION	
N68311 PLAN N6871193D1459 0250	000940 09/10/96 DO#68 03.3	09/22/97 OHM REMEDIATION G. ALEXANDER SOUTHWEST DIVISION	FINAL CONSTRUCTION WORK PLAN, REMOVAL ACTION, IR 3, AOC 4, NAVSTA LONG BEACH (MISSING APPENDIX C)		ADMIN RECORD INFO REPOSITORY	WORK PLAN RA BACKGROUND SOIL DISPOSAL ARSENIC CERCLA DATA	3 AOC 4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 LTR 0000000000000000 0002	000893 09/17/96 00000 10.1	03/26/97 SOUTHWEST DIVISION A. LEE DTSC LONG BEACH A. GUTIERREZ	RE CONCURRENCE OF FINAL CONSTRUCTION WORK PLAN, INSTALLATION RESTORATION SITE 3 AOC 4 W/O ENCL.		ADMIN RECORD	REQUEST WORK PLAN IR AOC	3 AOC 4	SOUTHWEST DIVISION	
N68311 MEMO 0000000000000000 0002	000950 10/02/96 00000 10.1	09/23/97 CRWQCB LOS ANGELES J. ROSS DTSC LONG BEACH A. GUTIERREZ	CRWQCB COMMENTS ON DRAFT GROUNDWATER MONITORING WORK PLAN (REF. DOC. #000757)		ADMIN RECORD INFO REPOSITORY	COMMENTS GW MONITORING WORK PLAN DRY DOCK WELLS	1 3 4 AOPC 1 6A	SOUTHWEST DIVISION L. BCH PUBLIC LIB.	

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N68311	000890	03/26/97	SOUTHWEST DIVISION		REQUEST FOR COMMENTS ON DRAFT CLOSE-OUT REPORT FOR	ADMIN RECORD	REQUEST	3	SOUTHWEST DIVISION
LTR		10/07/96	A. LEE		INSTALLATION RESTORATION SITE 3, AOC 4		COMMENTS	AOC 4	
0000000000000000		00000	DTSC LONG BEACH		W/O ENCL.		AOC		
0003		10.1	A. GUTIERREZ				CLOSURE		
							IR		
N68311	000889	03/26/97	PORT OF LONG BEACH		PIER 1 NAVAL STATION MARINE TERMINAL ENVIRONMENTAL	ADMIN RECORD	CLEANUP	4	SOUTHWEST DIVISION
LTR		10/15/96	A. STEINBERG		CLEANUP MEETING HELD SEPTEMBER 23, 1996			BLDG. 4	
0000000000000000		00000	SOUTHWEST DIVISION					BLDG. 46	
0003		01.6	A. LEE					BLDG. 220	
N68311	000888	03/26/97	SOUTHWEST DIVISION		RE DRAFT SAMPLING PLAN, SOIL REMOVAL AND CONFIRMATION	ADMIN RECORD	REQUEST	BLDG. S-4	SOUTHWEST DIVISION
LTR		10/16/96	A. LEE		WELL INSTALLATION FOR BUILDING S-4 BOILER PLANT,		COMMENTS		
0000000000000000		00000	CRWQCB MONTEREY		IS PROVIDED FOR REVIEW AND COMMENTS		SOIL		
0021		10.1	H. MARLEY				REMOVAL		
							WELLS		
N68311	000938	09/22/97	OHM REMEDIATION		DRAFT REMOVAL ACTION SITE CLOSURE REPORT ON IR SITE 3	ADMIN RECORD	REMOVAL	3	SOUTHWEST DIVISION
RPT		10/16/96	G. ALEXANDER		AOC 4, NAVSTA LONG BEACH	INFO REPOSITORY	RA	AOC 4	L. BCH PUBLIC LIB.
N6871193D1459		DO 68	SOUTHWEST DIVISION				ARAR		
1200		03.4					SOIL		
							EE\CA		
							DATA		
							DISPOSAL		
							BACKGROUND		
							ARSENIC		
N68311	000953	09/23/97	OHM REMEDIATION		OCTOBER 17, 1996 MEETING MINUTES FOR AGENCY REVIEW	ADMIN RECORD	MTG MINS	3	SOUTHWEST DIVISION
MM		10/24/96	K. WILLIAMS		TELECONFERENCE FOR REMOVAL ACTION SITE CLOSURE REPORT,	INFO REPOSITORY	REMOVAL	AOC 4	L. BCH PUBLIC LIB.
0000000000000000		00000	VARIOUS AGENCIES		IR SITE 3, AOC 4		CLOSURE		
0004		10.4					SOIL		
							DRUMS		
							DISPOSAL		
N68311	000885	03/26/97	DTSC LONG BEACH		COMMENTS ON THE DRAFT GROUNDWATER MONITORING WORKPLAN	ADMIN RECORD	COMMENTS	5	SOUTHWEST DIVISION
LTR		10/28/96	A. GUTIERREZ		(GWMWP), NAVAL STATION LONG BEACH		GW	OU 1	
0000000000000000		00000	SOUTHWEST DIVISION				MONITORING	OU 2	
0018		10.1	K. OSTROUSKI				WORK PLAN	AOC 1	
								AOC 4	
								1	
								3	
								4	
								6A	
N68311	000948	09/23/97	DTSC LONG BEACH		DTSC COMMENTS TO DRAFT GROUNDWATER MONITORING WORK	ADMIN RECORD	COMMENTS	OU 1	SOUTHWEST DIVISION
LTR		10/28/96	A. GUTIERREZ		PLAN (REF. DOC. #000757)	INFO REPOSITORY	GW	OU 2	L. BCH PUBLIC LIB.
0000000000000000		00000	VARIOUS AGENCIES				MONITORING	5	
0016		10.1					WORK PLAN	AOPC 4	
							WELLS		
							WATER		

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N68311 LTR 0000000000000000 0003	000884 10/29/96 00000 10.1	03/26/97 A. GUTIERREZ SOUTHWEST DIVISION K. BAER	CONCURRENCE ON THE FINAL CONSTRUCTION WORK PLAN REMOVAL ACTION IR SITE 3, AOC 4, NAVAL STATION LONG BEACH		ADMIN RECORD	RESPONSE AOC REMOVAL	3 AOC 4	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0007	000868 11/05/96 00000 01.6	03/25/97 D. ROLLEFSON EPA SAN FRANCISCO M. HAUSLADEN	PROPOSAL TO ADD NEW SITE TO IR PROGRAM; APOC #5 WILL BECOME IR SITE 14		ADMIN RECORD	PROPOSAL IRP	14 APOC 5 BLDG. 46	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0005	000883 11/05/96 00000 10.1	03/26/97 OHM REMEDIATION SERV K. WILLIAMS SOUTHWEST DIVISION K. BAER	RESPONSE TO AGENCY COMMENTS ON DRAFT REMOVAL ACTION SITE CLOSURE REPORT, REMOVAL ACTION INSTALLATION RESTORATION SITE 3, AREA OF CONCERN 4		ADMIN RECORD	RESPONSE COMMENTS CLOSURE AOC REMOVAL	3 AOC 4	SOUTHWEST DIVISION	
N68311 FAX 0000000000000000 0005	000960 11/05/96 00000 10.1	09/23/97 OHM REMEDIATION K. WILLIAMS VARIOUS AGENCIES	AGENCY RESPONSE TO COMMENTS ON DRAFT REMOVAL ACTION SITE CLOSURE REPORT, REMOVAL ACTION IR SITE 3, AOC 4		ADMIN RECORD INFO REPOSITORY	RESPONSE COMMENTS REMOVAL SOIL DRUMS RI	3 AOC 4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.	
N68311 LTR 0000000000000000 0002	000874 11/08/96 00000 02.1	03/25/97 CRWQCB MONTEREY J. ROSS SOUTHWEST DIVISIION K. BAER	COMMENTS ON DRAFT SAMPLING PLAN, SOIL REMOVAL AND CONFIRMATION WELL INSTALLATION, BLDG. S-4 BOILER PLANT		ADMIN RECORD	SOIL COMMENTS GW	BLDG. S-4	SOUTHWEST DIVISION	
N68311 PLAN N6871192D4670 0500	000838 11/11/96 00112 03.3	11/21/96 BECHTEL NATIONAL K. KAPUR SOUTHWEST DIVISION R. SELBY	FINAL GROUNDWATER MONITORING WORK PLAN		ADMIN RECORD	GW MONITORING WORK PLAN	1 2 3 4 6A 6B	SOUTHWEST DIVISION	
N68311 RPT N6871193D1459 1035	000841 11/15/96 DO#68 03.3	03/13/97 OHM REMEDIATION K. WILLIAMS SOUTHWEST DIVISION	FINAL REMOVAL ACTION SITE CLOSURE REPORT REMOVAL ACTION INSTALLATION RESTORATION SITE 3 AOC 4 REV. 0 VOLUME I OF II AND VOLUME II OF II		ADMIN RECORD INFO REPOSITORY	REMOVAL CLOSURE SOIL	3 AOC 4	SOUTHWEST DIVISION NAVSTA LONG BEACH	
N68311 LTR 0000000000000000 1000	000882 11/19/96 00000 10.1	03/26/97 DTSC LONG BEACH A. GUTIERREZ SOUTHWEST DIVISION K. OSTROWSKI	COMMENTS ON FINAL IR REPORTS FOR SITES 1 THROUGH 6A NAVAL STATION LONG BEACH		ADMIN RECORD	COMMENTS	1 2 3 4 5 6A	SOUTHWEST DIVISION	
N68311 LTR N6871193D1459 0019	000861 11/21/96 DO#83 03.1	03/25/97 OHM REMEDIATION SVCS G. ALEXANDER SOUTHWEST DIVISION K. BAER	FINAL SAMPLING PLAN; SOIL REMOVAL AND CONFIRMATION WELL INSTALLATION; BUILDING S-4 BOILER PLANT		ADMIN RECORD	SOIL REMOVAL WELLS	BLDG. S-4	SOUTHWEST DIVISION	

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N68311 LTR 0000000000000000 0003	000864 12/02/96 00000 10.1	03/25/97 K. BAER CRWQCB MONTEREY H. MARLEY	SOUTHWEST DIVISION PLAN SOIL REMOVAL AND CONFIRMATION WELL INSTALLATION BLDG 4 BOILER PLANT (REFER DOC#000861 FOR ENCL)		ADMIN RECORD	RESPONSE COMMENTS SOIL REMOVAL WELLS	BLDG. 4	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0001	000876 12/06/96 00000 10.1	03/25/97 M. HAUSLADEN SOUTHWEST DIVISIION K. BAER	EPA SAN FRANCISCO CONCURRENCE ON FINAL REMOVAL ACTION SITE CLOSURE SITE 3 AOPC 4		ADMIN RECORD	REMOVAL CLOSURE AOPC	3 AOPC 4	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0003	000863 12/10/96 00000 10.1	03/25/97 A. LEE DTSC LONG BEACH A. GUTIERREZ	SOUTHWEST DIVISION TRANSMITTING FINAL REMOVAL ACTION SITE CLOSURE REPORT FOR INSTALLATION RESTORATION SITE 3, AOC 4 FOR REVIEW (REFER DOC# 000841 & DOC# 000842 FOR ENCL)		ADMIN RECORD	CLOSURE AOC	3 AOC 4	SOUTHWEST DIVISION	
N68311 LTR 0000000000000000 0001	000879 12/12/96 00000 10.1	03/25/97 CRWQCB MONTEREY J. ROSS SOUTHWEST DIVISIION K. BAER	CONCURRENT ON THE FINAL SAMPLING PLAN, SOIL REMOVAL AND CONFIRMATION WELL INSTALLATION, BLDG. S-4 BOILER PLAN		ADMIN RECORD	SOIL REMOVAL WELLS COMMENTS	BLDG. S-4	SOUTHWEST DIVISION	
N68311 PLAN N681779204670 0200	000839 12/24/96 12/16/96 00118 03.3	BECHTEL NATIONAL INC J. KLUESENER VARIOUS AGENCIES	DRAFT BRAC CLEANUP PLAN (NO.4)-CTO-0118		ADMIN RECORD INFO REPOSITORY	BRAC CLEANUP BCP UST	1 2 3 4 5 6A AOPC 1 AOPC 2 AOPC 3 AOPC 4 AOPC 5 AOPC 6 AOPC 7 AOPC 8	SOUTHWEST DIVISION NAVSTA LONG BEACH	
N68311 LTR 0000000000000000 0002	000907 03/26/97 12/17/96 00000 10.1	03/26/97 SOUTHWEST DIVISION K. BAER DTSC LONG BEACH A. GUTIERREZ	CLARIFICATION THAT RESPONSE TO ADDITIONAL COMMENT ON FINAL RI CAN BE FOUND AS RESPONSE TO COMMENT 1 FOR DRAFT APPENDIX U		ADMIN RECORD	RESPONSE COMMENTS RI IR	1 2 3 4 5 6A	SOUTHWEST DIVISION	
N68311 RPT N687119204670 0090	000848 03/13/97 01/15/97 00111 04.2	BECHTEL NATIONAL INC K. KAPUR VARIOUS AGENCIES	DRAFT SUPPLEMENTAL ENVIRONMENTAL BASELINE SURVEY (SUPPLEMENTAL EBS) FOR NAVAL STATION LONG BEACH		ADMIN RECORD	EBS	1 4 14 BLDG. 815 BLDG. 4 BLDG. 8 BLDG. 32 BLDG. 42 BLDG. 143 BLDG. 144	SOUTHWEST DIVISION	

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N68311 000848 continued

BLDG. 272
BLDG. 401
BLDG. 888
BLDG. 673
BLDG. 576
AOPC 5
AOPC 6
AOPC 17
AOPC 9
AOPC 21
AOPC 22
6A
5
3

N68311	000997	03/16/98	SOUTHWEST DIVISION	DRAFT EXPANDED SITE INSPECTION REPORT FOR IR SITE 14; W/O ENCLS. (REFERENCE DOCUMENT NUMBER N68311.000911)	ADMIN RECORD	SI	14	SOUTHWEST DIVISION
LTR		01/15/97	A. LEE		INFO REPOSITORY	IR		L. BCH PUBLIC LIB.
0000000000000000	00000		DTSC LONG BEACH	REQUEST WRITTEN COMMENTS BY FEBRUARY 13, 1997		COMMENTS		
0004		10.1	A. GUTIERREZ					

N68311	001000	03/16/98	CRWQCB MONTEREY PARK	RESPONSE TO PROPOSED SAMPLING GRID FOR SITE 4	ADMIN RECORD	RESPONSE	4	SOUTHWEST DIVISION
LTR		01/29/97	J. ROSS		INFO REPOSITORY	SA		L. BCH PUBLIC LIB.
0000000000000000	00000		SOUTHWEST DIVISION					
0001		10.1	G. SIMON					

N68311	000910	04/01/97	BECHTEL NATIONAL INC	AMENDMENTS TO DRAFT APPENDIX U-SUPPLEMENTAL FIELD ACTIVITIES FOR IRP SITE 6A, DATED FEBRUARY 3, 1997	ADMIN RECORD	IRP	6A	SOUTHWEST DIVISION
RPT		02/03/97	J. KLUESENER			RI	1	
N6871192D4670	00112		VARIOUS AGENCIES	(REF.)		BRAC	2	
0100		03.4				VOC	3	
						AOPC	4	
							12	
							AOPC 1	
							AOPC 2	
							AOPC 3	
							AOPC 4	
							AOPC 8	

N68311	000909	03/26/97	BECHTEL NATIONAL INC	PRELIMINARY DATA QUALITY OBJECTIVES FOR IR SITE 14 EXPANDED SITE INSPECTION, NAVAL STATION LONG BEACH	ADMIN RECORD	IR	14	SOUTHWEST DIVISION
XMTL		02/13/97	K. KAPUR			ESI		
N6871192D4670	00134		VARIOUS AGENCIES					
0025		01.2						

N68311	000843	03/13/97	BECHTEL NATIONAL INC	LONG-TERM GROUNDWATER MONITORING PROGRAM FIRST QUARTER	ADMIN RECORD	GW	1	SOUTHWEST DIVISION
RPT		02/14/97	K. KAPUR	GROUNDWATER MONITORING REPORT FORMER NAVAL STATION	INFO REPOSITORY	MONITORING	2	NAVSTA LONG BEACH
N6871192D4670	00112		VARIOUS AGENCIES	LONG BEACH			3	
0500		03.4					4	
							6A	
							6B	
							AOPC 4	
							AOPC 2	
							AOPC 8	

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N68311	000845	03/13/97	BECHTEL NATIONAL INC	BRAC CLEANUP PLAN (BCP) FOR NAVAL STATION LONG BEACH,	ADMIN RECORD	BRAC	1	SOUTHWEST DIVISION
PLAN		03/01/97	J. KLUESENER	NAVAL HOSPITAL AND ASSOCIATED HOUSING (VERSION NO.4)		CLEANUP	2	
N6871192D4670		00118	SOUTHWEST DIVISION	DATED MARCH 1997		BCP	3	
0142		03.3	R. SELBY			IRP	4	
							5	
							6B	
							6A	
							7	
							14	
							8	
							9	
							10	
							11	
							12	
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							BLDG. 32	
							BLDG. 42	
							BLDG. 143	
							BLDG. 144	
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							BLDG. 671	
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							BLDG. 676	
							BLDG. 741	
							BLDG. 152	
							BLDG. 650	
							BLDG. 307	
							BLDG. 821	
							BLDG. 749	
							BLDG. 756	
							BLDG. 4	
							BLDG. 220	
							BLDG. 419	
							BLDG. 40	
							BLDG. 831	
							AOPC 1	
							AOPC 2	
							AOPC 3	
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							AOPC 9	
							AOPC 10	

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 AOPC 12
 AOPC 13
 AOPC 14
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 AOPC 16
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 AOPC 18
 AOPC 19
 AOPC 20
 AOPC 21
 AOPC 22

N68311 LTR 0000000000000000 0001	000993 03/16/98 03/03/97 00000 10.1	CRWQCB MONTEREY PARK J. ROSS SOUTHWEST DIVISION G. SIMON	RESPONSE TO PROPOSED AMENDMENTS TO THE SAMPLING GRID FOR SITE 4	ADMIN RECORD INFO REPOSITORY	RESPONSE SMP	4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 LTR 0000000000000000 0003	000915 04/03/97 03/11/97 00000 02.0	DTSC LONG BEACH A. GUTIERREZ SOUTHWEST DIVISION K. BAER	REVIEW OF FINAL REMOVAL ACTION SITE CLOSURE REPORT FOR SITE 3, AREA OF CONCERN 4	ADMIN RECORD	REMOVAL CLOSURE AOC IR COMMENTS	3 AOC 4	SOUTHWEST DIVISION
N68311 XMTL 0002	000919 05/05/97 03/12/97 10.1	RWQCB J.E. ROSS SOUTHWEST DIVISION K. BAER	COMMENTS ON DRAFT REMEDIATION WORKPLAN, REMOVAL OF DIESEL CONTAMINATED SOIL AT BUILDING S-4 BOILER PLANT	ADMIN RECORD	COMMENTS WORK PLAN REMOVAL CONTAM* SOIL	BLDG S-4 BOILR PLNT	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0003	000913 04/03/97 03/13/97 00000 01.6	DTSC LONG BEACH A. GUTIERREZ VARIOUS AGENCIES	REVIEW OF AMENDMENTS TO DRAFT APPENDIX U - SUPPLEMENTAL ACTIVITIES FOR INSTALLATION RESTORATION SITE 6A	ADMIN RECORD	IRP COMMENTS	6A 1 2 3 4	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0001	000994 03/16/98 03/17/97 00000 10.1	CRWQCB MONTEREY PARK J. ROSS SOUTHWEST DIVISION G. SIMON	CONCURRENCE ON THE SAMPLING/REQUEST TO BACKFILL CELLS B 2-7, C 2-7 AND D 2-7, SITE 4 WITH THE EXCEPTION OF THE EAST AND SOUTH SIDEWALLS	ADMIN RECORD INFO REPOSITORY	REQUEST	4	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 LTR N68711-92D-4670 0016	000914 04/03/97 03/19/97 00095 10.1	BECHTEL NATIONAL INC K. KAPUR VARIOUS AGENCIES	PRELIMINARY DRAFT RESPONSE TO COMMENTS ON THE DRAFT SITE INSPECTION REPORT FOR AREA OF POTENTIAL CONCERN 5	ADMIN RECORD	RESPONSE COMMENTS SI AOPC PCE ESI IR	BLDG. 46 AOPC 5 14	SOUTHWEST DIVISION

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N68311	000922	05/05/97	BECHTEL NATIONAL INC	FINAL SUPPLEMENTAL ENVIRONMENTAL BASELINE SURVEY	ADMIN RECORD	EBS				1	SOUTHWEST DIVISION
RPT		03/20/97	J. KLESENER							2	
N6871192D4670		00111	SOUTHWEST DIVISION							3	
0075		02.1	R. SELBY							4	
										5	
										6A	
										7	
										14	
										AOPC 9	
										AOPC 21	
										AOPC 22	
										AOPC 17	
										AOPC 6	
										AOPC 5	
N68311	000911	04/02/97	BECHTEL NATIONAL INC	DRAFT EXPANDED SITE INSPECTION WORK PLAN FOR IR	ADMIN RECORD	SI				14	SOUTHWEST DIVISION
PLAN		03/31/97	J. KLUESENER	SITE 14		WORK PLAN				AOPC 5	
N6871192D4670		00134	VARIOUS AGENCIES			IR					
0100		03.3				ESI					
						DQOP					
						PCE					
N68311	000926	05/13/97	BECHTEL NATIONAL INC	FINAL APPENDIX U, SUPPLEMENTAL FIELD ACTIVITIES FOR	ADMIN RECORD	IRP				1	SOUTHWEST DIVISION
RPT		04/14/97	J. KLUESENER	IRP SITES 1, 2, 3, 4, AND 6A						2	
N6871192D4670		00112	VARIOUS AGENCIES							3	
0350		03.4								4	
										6A	
N68311	000947	09/23/97	DEPT. PARKS AND REC.	COMMENTS ON REMOVAL OF DIESEL-CONTAMINATED SOIL AT	ADMIN RECORD	COMMENTS				BLDG. S-4	SOUTHWEST DIVISION
LTR		04/24/97	C. WIDELL	BLDG. S-4, BOILER PLANT, NAVSTA LONG BEACH	INFO REPOSITORY	REMOVAL					L. BCH PUBLIC LIB.
0000000000000000		00000	SOUTHWEST DIVISION			DIESEL					
0002		10.1	E. MARTIN			SOIL					
						BOILER					
N68311	000955	09/23/97	SOUTHWEST DIVISION	TRANSMITTAL OF REMEDIAL INVESTIGATION REPORT FOR IRP	ADMIN RECORD	RI				1	SOUTHWEST DIVISION
CLTR		04/30/97	K. OSTROWSKI	SITES 1 THROUGH 6A, FINAL APPENDIX U, SUPPLEMENTAL	INFO REPOSITORY	IRP				2	L. BCH PUBLIC LIB.
0000000000000000		00000	VARIOUS AGENCIES	FIELD ACTIVITIES FOR IRP SITES 1-4 & 6A (DOC. #000926)						3	
0006		10.1								4	
										5	
										6A	
N68311	000956	09/23/97	BECHTEL NATIONAL INC	TRANSMITTAL OF REVISED SPINE TO REMEDIAL INVESTIGATION	ADMIN RECORD	RI				1	SOUTHWEST DIVISION
CLTR		05/15/97	K. KAPUR	REPORT FOR IRP SITES 1 THRU 6A, FINAL APPENDIX U,	INFO REPOSITORY	IRP				2	L. BCH PUBLIC LIB.
N6871192D4670		00112	VARIOUS AGENCIES	SUPPLEMENTAL FIELD ACTIVITIES (REF. DOC. #000926)						4	
0002		03.4								5	
										6A	
N68311	000930	09/22/97	DTSC, LONG BEACH	COMMENTS TO DRAFT EXPANDED SITE INSPECTION WORK PLAN	ADMIN RECORD	COMMENTS				AOPC 5	SOUTHWEST DIVISION
LTR		05/20/97	A. GUTIERREZ	IR SITE 14, DATED MARCH 31, 1997	INFO REPOSITORY	SI				14	L. BCH PUBLIC LIB.
0000000000000000		00000	VARIOUS AGENCIES	(REF. DOC. #000911)		WORK PLAN					
0007		10.1				GW					
						DATA					

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N68311	000942	09/22/97	DTSC, LONG BEACH	05/20/97	A. GUTIERREZ	COMMENTS TO DRAFT EXPANDED SITE INSPECTION WORK PLAN IR SITE 14 NAVSTA LONG BEACH (REF. DOC. #000911)	ADMIN RECORD INFO REPOSITORY	COMMENTS ESI WORK PLAN INVESTIGATION GW VOC	14	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
LTR	0000000000000000	00000	VARIOUS AGENCIES	10.1						
0007										
N68311	000963	09/23/97	BECHTEL NATIONAL INC	06/05/97	K. KAPUR	FINAL SITE INSPECTION REPORT FOR AREA OF POTENTIAL CONCERN 5	ADMIN RECORD	SI GW VOC PCE SOIL PRG UST MONITORING WELLS IDW	AOPC 5 BLDG. 46 BLDG. 8 7	SOUTHWEST DIVISION
RPT		06/18/97	J. HILL	00095	SOUTHWEST DIVISION					
N6871192D4670		01.2	R. SELBY							
0900										
N68311	000971	12/24/97	SOUTHWEST DIVISION	06/18/97	J. HILL	RESPONSE TO REVIEW COMMENTS REGARDING THE DRAFT EXPANDED SITE INSPECTION WORK PLAN FOR IR SITE 14 W/O ENCLOSURES	ADMIN RECORD	RESPONSE COMMENTS IR WORK PLAN	14	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
LTR	0000000000000000	00000	VARIOUS AGENCIES	10.1						
0001										
N68311	000972	12/24/97	EPA SAN FRANCISCO	06/27/97	M. HAUSLADEN	CONTRACT REPORT TO PROVIDE DIRECTION ON THE HANDLING OF AGENCY COMMENTS RECEIVED VERBALLY OR BY FAX, AND TO ADVISE ON THE STATUS OF U.S. EPA's REVIEW FOR SITE 14	ADMIN RECORD INFO REPOSITORY	COMMENTS AAL	14	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
RPT		06/27/97	BECHTEL NATIONAL INC	00134						
0000000000000000		01.2	A. GESSESSE							
0001										
N68311	000966	09/25/97	BECHTEL NATIONAL INC	06/30/97	K. KAPUR	DRAFT FINAL REMEDIAL INVESTIGATION REPORT IRP FOR WEST BASIN (SITE 7) (VOLUMES I-IV)	ADMIN RECORD	RI IRP WATER PCB SEDIMENTS ARAR HABITAT DREDGING PIPELINE DISPOSAL DATA PESTICIDES HERBICIDE	7 OU 3 7A 7B BLDG. 143 BLDG. 144 BLDG. 145 PIER 9 BLDG. 8 SHOP 3 SHOP 7 BLDG. 128 SHOP 41 SHOP 56 BLDG. 132 SHOP 38 SHOP 71 BLDG. 109 BLDG. 129 BLDG. 130 SHOP 72 3 DRY DOCK 1 DRY DOCK 2 DRY DOCK 3	SOUTHWEST DIVISION
RPT		06/30/97	VARIOUS AGENCIES	00026						
N6871192D4670		03.4								
3200										

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N68311 000966 continued

 BLDG. 162
 BLDG. 150
 BLDG. 104
 BLDG. 800

N68311 RPT N6871193D1459 0330	000962	09/23/97 07/07/97 DO#05 01.1	OHM REMEDIATION M. ZAIDI SOUTHWEST DIVISION D. JESPERSON	QUARTERLY GROUNDWATER MONITORING REPORT - SECOND QUARTER 1997 (FINAL)	ADMIN RECORD	GW MONITORING UST TPH WELLS SOIL	BLDG. 401 NEX STN	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0003	000933	09/22/97 07/09/97 00000 10.1	DTSC, LONG BEACH J. SCANDURA VARIOUS AGENCIES	CONCURRENCE WITH FINAL SITE INSPECTION REPORT FOR AOPC 5 (SITE 14), DATED JUNE 1997	ADMIN RECORD INFO REPOSITORY	SI PCE GW COMMENTS	AOPC 5 14	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 RPT N6871192D4670 1200	000964	09/23/97 07/11/97 00112 01.1	BECHTEL NATIONAL INC K. KAPUR SOUTHWEST DIVISION R. SELBY	DRAFT SECOND QUARTER (BIANNUAL) GROUNDWATER MONITORING REPORT NAVSTA LONG BEACH	ADMIN RECORD	GW MONITORING DATA WELLS	1 2 3 4 6A AOPC 4 AOPC 2 AOPC 8 6B 5	SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0500	000969	10/22/97 09/19/97 00112 03.4	BECHTEL NATIONAL INC K. KAPUR VARIOUS AGENCIES	FINAL THIRD QUARTER GROUNDWATER MONITORING REPORT FORMER NAVAL STATION LONG BEACH	ADMIN RECORD INFO REPOSITORY	GW MONITORING	1 2 3 4 AOPC 4 AOPC 2 AOPC 8	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 LTR 0000000000000000 0003	000973	12/24/97 09/30/97 00000 01.6	DTSC LONG BEACH A. GUTIERREZ VARIOUS AGENCIES	CONCURRENCE ON THE FINAL EXPANDED SITE INSPECTION (ESI) WORK PLAN FOR INSTALLATION RESTORATION SITE 14	ADMIN RECORD INFO REPOSITORY	ESI WORK PLAN IR	14	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 LTR 0000000000000000 0003	000977	12/24/97 10/08/97 00000 01.6	SOUTHWEST DIVISION K. OSTROWSKI VARIOUS AGENCIES	REQUEST THAT DTSC BE LEAD AGENCY FOR THE STATE OF CALIFORNIA ON IDENTIFICATION OF STATE ARARS FOR IR SITES 1,2,3,4,5, AND 6A	ADMIN RECORD INFO REPOSITORY	REQUEST ARAR IR	1 2 3 4 5 6A	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 RPT N6871193D1459 0450	000967	10/22/97 10/16/97 DO#05 03.4	OHM REMEDIATION K. WILLIAMS VARIOUS AGENCIES	QUARTERLY GROUNDWATER MONITORING REPORT-THIRD QUARTER 1997 (FINAL)	ADMIN RECORD	GW MONITORING	NEX GAS ST BLDG. 401	SOUTHWEST DIVISION

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N68311 RPT N6871193D1459 0075	000968	10/22/97 10/16/97 DO#83 03.4	OHM REMEDIATION K. WILLIAMS VARIOUS AGENCIES	QUARTERLY GROUNDWATER MONITORING REPORT-THIRD QUARTER 1997 (FINAL)BUILDING S-4 BOILER PLANT	ADMIN RECORD	GW MONITORING				BLDG. S-4	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0001	000976	12/24/97 10/27/97 00000 01.6	CRWQCB MONTEREY PARK J.E. ROSS VARIOUS AGENCIES	DRAFT CLOSURE REPORT FOR SITE 4-EAST AT THE NAVY MOLE	ADMIN RECORD INFO REPOSITORY	CLOSURE			4		SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 RPT N6871192D4670 1000	000970	11/26/97 11/06/97 00112 01.2	BECHTEL NATIONAL INC K. KAPUR VARIOUS AGENCIES	DRAFT FOURTH QUARTER (ANNUAL) GROUNDWATER MONITORING REPORT FORMER NAVAL STATION LONG BEACH	ADMIN RECORD INFO REPOSITORY	GW MONITORING IR			1 2 3 4 6A 6B AOPC 4 AOPC 2 AOPC 8 AOPC 3		SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 XMTL N6871192D4670 0008	000983	12/24/97 12/15/97 00112 10.1	BECHTEL NATIONAL INC K. KAPUR SOUTHWEST DIVISION R. SELBY	RESPONSE TO AGENCY COMMENTS ON THE LONG TERM GROUND- WATER MONITORING PROGRAM, DRAFT SECOND QRT.(BIANNUAL) & FINAL THIRD-QTR. GROUNDWATER MONITORING REPORT	ADMIN RECORD INFO REPOSITORY	RESPONSE COMMENTS GW MONITORING			1 2 AOPC 4		SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 LTR N47409895D0730 0008	000996	03/16/98 12/18/97 00000 10.1	SOUTHWEST DIVISION F. ALJABI CRWQCB MONTEREY PARK H. MARLEY	REQUEST FOR REVIEW AND APPROVAL OF THE ACTION PLAN FOR THE CHARACTERIZATION OF THE SOIL STOCK PILES AT IRP SITE 4, DATED JANUARY 5, 1997	ADMIN RECORD INFO REPOSITORY	REQUEST SOIL IRP			4		SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 LTR 0000000000000000 0007	000992	03/16/98 01/05/98 00000 10.1	EPA SAN FRANCISCO M. HAUSLADEN SOUTHWEST DIVISION K. OSTROWSKI	COMMENTS ON DRAFT FEASIBILITY STUDY FOR INSTALLATION RESTORATION SITES 3,4, 5 AND 6A	ADMIN RECORD INFO REPOSITORY	COMMENTS FS IR			3 4 5 6A		SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 LTR 0000000000000000 0001	000991	03/16/98 01/06/98 00000 01.6	CRWQCB MONTEREY PARK J. ROSS SOUTHWEST DIVISION D. ROLLEFSON	RESPONSE TO ACTION PLAN (REVISED)-STOCKPILE CHARACTERIZATION, SITE 4, DATED JANUARY 5, 1998	ADMIN RECORD INFO REPOSITORY	RESPONSE CLEANUP			4		SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 LTR 0000000000000000 0001	001002	03/16/98 01/13/98 00000 10.1	CRWQCB MONTEREY PARK J. ROSS SOUTHWEST DIVISION K. OSTROWSKI	CONCURRENCE WITH THE NAVY'S RECOMMENDATIONS FOR THE DRAFT FEASIBILITY STUDY FOR INSTALLATION RESTORATION SITES 3,4,5 AND 6A	ADMIN RECORD INFO REPOSITORY	FS IR			3 4 5 6A		SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 RPT N6871192D4670 0300	001006	03/16/98 01/15/98 00134 01.4	BECHTEL NATIONAL INC K. KAPUR VARIOUS AGENCIES	DRAFT EXPANDED SITE INSPECTION FOR IR SITE 14 DATED JANUARY 19, 1998	ADMIN RECORD INFO REPOSITORY	SI IR			14		SOUTHWEST DIVISION L. BCH PUBLIC LIB.

TOTAL RECORDS PRINTED: 163

REPORT SPECIFICATION FOR: RPT233

TITLE: NAVAL STATION LONG BEACH ADMINISTRATIVE RECORD FILE SITE 4

FILE: COMBINED Key Info. with Activity File

SELECTION CRITERIA:

[01] Site No. CONTAINS "4" & UIC.No. IS "N68311 "

SORT CRITERIA:

01 Doc. Date

PAGE BREAK LEVEL:

00 NO PAGEBREAK

TYPE REPORT FORM

PAPER COMBO KEY INFO(master activity rpt form)

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N68311	000287	09/21/94	JACOBS ENGINEERING	NAVSTA/NSY LONG BEACH CONTRACT TASK ORDER #0017 SITE	ADMIN RECORD	SI	1		SOUTHWEST DIVISION
CLTR		04/26/90	B.W.C. WONG	INSPECTION (SI) WORK PLAN, INCLUDING THE FIELD QA/QC		QA	2		
N6871189D9296		00017	SOUTHWEST DIVISION	AND THE SITE HEALTH & SAFETY PLAN (DRAFT)		QC	3		
0250		03.3	H. PADRO			HAZ WASTE	4		
						SAP	5		
						GW	6		
						H&SP	7		
						IAS			
						SARA			
						CERCLA			
						RI			
						FS			
N68311	000309	09/23/94		NAVSTA LONG BEACH HISTORY OF INSTALLATION RESTORATION	ADMIN RECORD	IRP	1		SOUTHWEST DIVISION
MISC		10/17/90		PROGRAM (IRP)		GW	2		
0000000000000000		00000				HAZ WASTE	3		
0002		01.1				IAS	4		
						SI	5		
N68311	000047	08/23/94	JACOBS ENGINEERING	NAVSTA LONG BEACH INSTALLATION RESTORATION PROGRAM	ADMIN RECORD	H&SP	1		SOUTHWEST DIVISION
RPT		10/31/90		FINAL DRAFT SITE INSPECTION WORK PLAN, INCLUDING THE		QA	2		
N6871189D9296		00017	SOUTHWEST DIVISION	FIELD QA/QC PLAN & THE SITE HEALTH & SAFETY PLAN		QC	3		
0150		03.3				SI	4		
						IRP	5		
							6		
							7A		
N68311	000058	08/23/94	SOUTHWEST DIVISION	NAVSTA LONG BEACH INSTALLATION RESTORATION PROGRAM	ADMIN RECORD	H&SP	1		SOUTHWEST DIVISION
RPT		04/08/91		(IRP) FINAL SITE INSPECTION (SI) WORK PLAN INCL FIELD		SI	2		
N6871189D9296		00017		QA/QC PLAN AND THE SITE SAFETY & HEALTH PLAN (SSHP)		QA	3		
0150		03.3				QC	4		
						IRP	5		
							6		
							7A		
N68311	000062	08/24/94	SOUTHWEST DIVISION	NAVSTA/NSY LONG BEACH INSTALLATION RESTORATION PROGRAM	ADMIN RECORD	SI	1		SOUTHWEST DIVISION
RPT		07/03/91		(IRP) RESPONSE TO CA DEPARTMENT OF HEALTH SERVICES		RCRA	2		
N6871189D9296		00017	NAVSTA LONG BEACH	REVIEW COMMENTS ON THE SITE INSPECTION (SI) WORK PLAN		PERMIT	4		
0012		03.3				IRP	5		
						COMMENTS	6A		
							9		
							10		
							13		
N68311	000063	08/24/94	NAVSTA LONG BEACH	NAVSTA/NSY LONG BEACH FINAL REVISED IR PROGRAM SI	ADMIN RECORD	RCRA	1		SOUTHWEST DIVISION
CLTR		07/23/91	J.L. SNYDER	WORKPLAN & CA DHS COMMENTS & RCRA CROSS REF (SEE DOC		SI	2		
N6871189D9296		00017	RWQCB	NO 000062 FOR COMMENTS)(SEE DOC 246 FOR SI WORKPLAN)		PERMIT	4		
0001		03.3	J. ROSS			COMMENTS	5		
						IRP	6A		
							9		
							10		
							13		

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N68311	000321	09/23/94	SOUTHWEST DIVISION	NAVSTA LONG BEACH INSTALLATION RESTORATION PROGRAM (IRP) SITE INSPECTION (SI) REPORT (VOLUME 1)	ADMIN RECORD	IRP SI PERMIT RCRA HAZ WASTE IAS GW WATER QC MONITORING WELLS H&SP LAB QA DATA SB CERCLA SARA	1 2 3 4 5 6 7A	SOUTHWEST DIVISION
N68311	000549	10/07/94	SOUTHWEST DIVISION	NAVSTA LONG BEACH RESPONSE TO ISSUES RAISED REGARDING INSTALLATION RESTORATION PROGRAM (IRP) FOR PROPERTIES LEASED TO & FROM POLA (HARD TO READ) "PRIV & CONF"	CONFIDENTIAL DOC ADMIN RECORD	IRP SI PA RI FS SWMU HAZ WASTE CERCLA	5	SOUTHWEST DIVISION
LTR	0000000000000000	06/18/92	J.L. SNYDER NAVSTA LONG BEACH CO					
0008		01.1						
N68311	000087	08/25/94	SOUTHWEST DIVISION	NAVSTA LONG BEACH INSTALLATION RESTORATION PROGRAM (IRP) FINAL SITE INSPECTION (SI) REPORT (VOLUME 1)	ADMIN RECORD INFO REPOSITORY	SI HAZMAT GW CERCLA IRP	1 2 3 4 5 6 7A	SOUTHWEST DIVISION
RPT	N687118909296	11/14/92						
0250		00122						
		01.2						
N68311	000341	09/23/94	JACOBS ENGINEERING	NAVAL COMPLEX LONG BEACH INITIAL SCOPING MEETING REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLANS (HELD 11/20/92)	ADMIN RECORD	RI FS OU PA SMP GW WATER PCB ARAR RCRA RA	5 6 6B	SOUTHWEST DIVISION
MM	0000000000000000	12/04/92						
0006		00000						
		04.3						
N68311	000344	09/29/94	JACOBS ENGINEERING	NAVAL COMPLEX LONG BEACH SITE MANAGEMENT PLAN (SMP) LAND USE MEETING NO. 1 (HELD 11/2/92)	ADMIN RECORD	SMP BRAC	1 2 3 4	SOUTHWEST DIVISION
MM	0000000000000000	12/10/92	P. TORREY					
0004		00000						
		01.1						

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N68311	000284	09/21/94	SOUTHWEST DIVISION	NAVSTA LONG BEACH INSTALLATION RESTORATION PROGRAM (IRP) REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) FINAL SAMPLING AND ANALYSIS PLAN (SAP)	ADMIN RECORD	GW	1	SOUTHWEST DIVISION
RPT		09/13/93			INFO REPOSITORY	SAP	2	
N6871189D9296		00249				PERMIT	3	
0400		03.1				WMP	4	
						DMP	5	
						WELLS	6A	
						MONITORING	7	
						QA		
						SB		
						H&SP		
						RI		
						FS		
						QC		
						QAPP		
N68311	000130	08/26/94	SOUTHWEST DIVISION	NAVSTA LONG BEACH REQUEST FOR IDENTIFICATION OF POTENTIAL STATE CHEMICAL-SPECIFIC AND LOCATION-SPECIFIC ARAR FOR IR SITES 1A, 1B, 2, & 5	ADMIN RECORD	ARAR	1A	SOUTHWEST DIVISION
LTR		10/12/93	E. DIENZO			HAZ WASTE	1B	
0000000000000000		00000	EPA			CHAR	2	
0002		04.1	A. GUTIERREZ				5	
N68311	000140	08/29/94	BECHTEL NATIONAL	NAVAL COMPLEX LONG BEACH DRAFT INVESTIGATION DERIVED WASTE (IDW) MANAGEMENT PLAN CTO-0015,0016,0026	ADMIN RECORD	IDWMP	1	SOUTHWEST DIVISION
RPT		12/18/93	K. KAPUR			RI	2	
N6871192D4670		00015				FS	3	
0005		03.0				GW	4	
						LAB	5	
							6A	
							7	
N68311	000141	08/29/94	BECHTEL NATIONAL	NAVSTA LONG BEACH DRAFT RISK ASSESSMENT WORK PLAN REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) SITES 1,2,3,4,5,6A AND 7	ADMIN RECORD	RA	1	SOUTHWEST DIVISION
RPT		12/18/93	K. KAPUR			FS	2	
N6871192D4670		00015				IRP	3	
0053		04.3				CERCLA	4	
						SARA	5	
						HAZ WASTE	6A	
						DERA	7	
						RCRA		
						RA		
N68311	000160	08/29/94	BECHTEL NATIONAL	NAVSTA LONG BEACH FINAL RISK ASSESSMENT WORK PLAN REMEDIAL INVESTIGATION/FEASIBILITY STUDY SITES 1,2,3,4,5,6A AND 7	ADMIN RECORD	RA	1	SOUTHWEST DIVISION
RPT		01/30/94	K. KAPUR			RI	2	
N6871192D4670		00015				FS	3	
0051		03.3				DATA	4	
						GW	5	
						CHAR	6A	
						IRP	7	
						CERCLA		
						SARA		
						DERA		
						RCRA		

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N68311 RPT N6871192D4670 0143	000161 01/30/94 00015 03.3	08/29/94 01/30/94 00015 03.3	BECHTEL NATIONAL K. KAPUR	NAVSTA LONG BEACH FINAL DATA MANAGEMENT PLAN FOR CTO'S 015, 016, AND 026	ADMIN RECORD	DMP DATA RI FS OU GW SB LAB WATER SAP QAPP	1 2 3 4 5 6A 7A 7B	SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0005	000163 01/30/94 00015 03.3	08/29/94 01/30/94 00015 03.3	BECHTEL NATIONAL K. KAPUR	NAVAL COMPLEX LONG BEACH FINAL INVESTIGATION DERIVED WASTE (IDW) MANAGEMENT PLAN CTO'S 0015, 0016, AND 0026	ADMIN RECORD	WELLS GW SB HAZ WASTE IDWMP	1 2 3 4 5 6A 7	SOUTHWEST DIVISION
N68311 PLAN 0000000000000000 0315	000856 03/01/94 00000 03.3	03/13/97 03/01/94 00000 03.3	NAVSTA LONG BEACH SOUTHWEST DIVISION	BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP PLAN	ADMIN RECORD	BRAC CLOSURE CLEANUP RA PCB VOC UST OU OU 1 OU 2 OU 3 BLDG. 32 BLDG. 143 BLDG. 144 BLDG. 401 BLDG. 815 BLDG. 675	1 2 3 4 5 6A 6B 7	SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0030	000190 05/01/94 00016 01.1	08/30/94 05/01/94 00016 01.1	BECHTEL NATIONAL K. KAPUR	NAVAL COMPLEX LONG BEACH TECHNICAL MEMORANDUM NO. 1 REVISED FINAL TECHNICAL MEMORANDUM FACILITY WIDE LIMITED FIELD INVESTIGATION	ADMIN RECORD	TECH MEMO GW WELLS DATA RI FS	5 6A	SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0018	000191 05/01/94 00015 04.3	08/30/94 05/01/94 00015 04.3	BECHTEL NATIONAL K. KAPUR	NAVAL COMPLEX LONG BEACH TECHNICAL MEMORANDUM NO. 2 REVISED FINAL TECHNICAL MEMORANDUM PROPOSED MODIFICATION TO FINAL RI/FS PLAN	ADMIN RECORD	RI FS TECH MEMO WELLS GW SAP	1 2 3 4 5 6A 7	SOUTHWEST DIVISION

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N68311	000193	08/30/94	BECHTEL NATIONAL	NAVSTA LONG BEACH PRELIMINARY FIELD DATA REVIEW FOR	ADMIN RECORD	DATA	1	SOUTHWEST DIVISION		
CLTR	05/05/94	K. KAPUR	SITES 1 THROUGH 5 AND 6A (MISSING ENCL: CONCENTRATION			LAB	2			
0000000000000000	00015	SOUTHWEST DIVISION	MAPS)			RI	3			
0007	01.1					FS	4			
						MAP	5			
							6A			
N68311	000194	08/30/94	NAVSTA LONG BEACH	NAVSTA LONG BEACH PRELIMINARY FIELD DATA REVIEW FOR	ADMIN RECORD	DATA	1	SOUTHWEST DIVISION		
CLTR	05/05/94	T.S. ERICKSON	SITES 1 THROUGH 5 AND 6A (MISSING ENCL: CONCENTRATION			LAB	2			
0000000000000000	00015	DISTRIBUTION	MAPS, SEE DOCUMENT NO. 000193 FOR PRELIM. DATA)			RI	3			
0001	01.1					FS	4			
						MAP	5			
							6A			
N68311	000203	08/30/94	NAVSTA LONG BEACH	NAVSTA LONG BEACH REVISED FINAL HEALTH AND SAFETY	ADMIN RECORD	RI	1	SOUTHWEST DIVISION		
CLTR	05/18/94	T.S. ERICKSON	PLAN SUPPLEMENT			FS	2			
N6871192D4670	00015	DISTRIBUTION				H&SP	3			
0081	04.4					SB	4			
						HAZ WASTE	5			
							6A			
							7			
N68311	000437	10/04/94	NAVSTA LONG BEACH	NAVSTA LONG BEACH CONTACT REPORT REGARDING PROPOSED	ADMIN RECORD	SB	1	SOUTHWEST DIVISION		
TEL	05/18/94	D. MC NARY	CONTINGENT SAMPLING PLAN FOR IR SITES 1 THROUGH 5 AND				2			
0000000000000000	00015		6A				3			
0001	03.1	A. WINANS					4			
							5			
							6A			
N68311	000216	08/31/94	DTSC	NAVSTA LONG BEACH COMMENTS TO PROPOSED PHASE II	ADMIN RECORD	RI	1	SOUTHWEST DIVISION		
LTR	06/22/94	A. GUTIERREZ	(CONTINGENT) SAMPLING - IR SITES 1 THROUGH 5 AND 6A			FS	2			
0000000000000000	00000	NAVSTA/NSY LB				SAP	3			
0005	03.1					WELLS	4			
						SB	5			
						DATA	6A			
						MONITORING				
						COMMENTS				
N68311	000222	08/31/94	BECHTEL NATIONAL	NAVSTA LONG BEACH TRANSMITTAL OF DRAFT FINAL RI/FS	ADMIN RECORD	RI	1	SOUTHWEST DIVISION		
MISC	07/01/94	K. KAPUR	RISK ASSESSMENT WORK PLAN (ENCL RI/FS RA WORK PLAN			FS	2			
N6871192D4670	00015	SOUTHWEST DIVISION	CAN BE FOUND WITH DOC NO. 000223)			RA	3			
0002	03.3	A.K. LEE					4			
							5			
							6A			
N68311	000904	03/26/97	EPA SAN FRANCISCO	COMMENTS ON DRAFT BRAC REALIGNMENT AND CLOSURE	ADMIN RECORD	COMMENTS	PARCEL A	SOUTHWEST DIVISION		
LTR	01/27/95	S. LAUTH	(BRAC) CLEANUP PLAN			BCP	PARCEL B			
0000000000000000	00000	SOUTHWEST DIVISION					1			
0005	10.1	A. LEE					2			
							3			
							4			
							5			
							6A			

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N68311 000904 continued

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N68311	000903	03/26/97	DTSC LONG BEACH	COMMENTS ON DRAFT BASE REALIGNMENT AND CLOSURE (BRAC)	ADMIN RECORD	COMMENTS	5	SOUTHWEST DIVISION
LTR		02/06/95	A. GUTIERREZ	CLEANUP PLAN NAVAL STATION, LONG BEACH		BCP	6B	
0000000000000000		00000	SOUTHWEST DIVISION				BLDG. 8	
0006		10.1	A. LEE				BLDG. 32	

N68311	000857	03/13/97	BECHTEL NATIONAL INC	FINAL BRAC CLEANUP PLAN (REV. NO. 2)	ADMIN RECORD	BRAC	3	SOUTHWEST DIVISION
PLAN		02/24/95	K. KAPUR			CLEANUP	4	
N6871192D4670		00017	SOUTHWEST DIVISION			BCP	5	
0100		03.3	A. LEE			UST	6A	
						GW	7	
							OU 1	
							OU 2	
							OU 3	
							BLDG. 673	
							BLDG. 676	
							BLDG. 401	
							AOC 1	
							AOC 2	
							AOC 3	
							AOC 4	
							AOC 5	
							AOC 6	
							AOC 7	
							AOC 8	
							AOC 9	
							AOC 10	
							AOC 11	
							BLDG. 756	
							AOC 12	
							AOC 13	
							AOC 14	
							AOC 15	
							AOC 16	
							AOC 17	
							AOC 18	
							AOC 19	
							AOC 20	
							1	
							2	

N68311	000005	03/08/95	BNI	NAVSTA LONG BEACH, NAVHOSP LONG BEACH AND ASSOCIATED	ADMIN RECORD	BCP	1	SOUTHWEST DIVISION
CLTR		03/03/95	K. KAPUR	HOUSING FINAL BRAC CLEANUP PLAN (NO. 2)	INFO REPOSITORY	BRAC	2	
N6871192D4670		00017	A. LEE			AOC	3	
0075		10.0	SWDIV			ARAR	4	
						AST	5	
						CERCLA	6A	
						FFSRA		
						FOSL		
						FOST		
						SARA		
						UST		

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N68311	000860	03/25/97	BECHTEL NATIONAL INC	RI REPORT ERRATA LIST; SITES 1 THROUGH 5 AND 6A	ADMIN RECORD	RI CONTAM*	1 2 3 4 5 6A	SOUTHWEST DIVISION
XMTL		07/28/95	K. KAPUR					
N6871192D4670	00015		VARIOUS AGENCIES					
0022	03.4							
N68311	000754	08/22/96	BNI SAN DIEGO	DRAFT PRELIMINARY ASSESSMENT FOR THE AREAS OF	ADMIN RECORD	HAZ WASTE	AOPC 1	SOUTHWEST DIVISION
RPT		08/11/95	K. KAPUR	POTENTIAL CONCERN			AOPC 2	
N6871192D4670	00095		SOUTHWEST DIVISION				AOPC 3	
0250	01.3						AOPC 4	
							AOPC 5	
							AOPC 6	
							AOPC 7	
							AOPC 8	
							AOPC 9	
							AOPC 10	
							AOPC 11	
							AOPC 12	
							AOPC 13	
							AOPC 14	
							AOPC 15	
							AOPC 16	
							AOPC 17	
							AOPC 18	
							AOPC 19	
							AOPC 20	
							1	
							2	
							3	
							4	
							5	
							6A	
							7	
N68311	000676	11/16/95	DTSC	NAVSTA LONG BEACH DRAFT REMEDIAL INVESTIGATION (RI)	ADMIN RECORD	RI	1	SOUTHWEST DIVISION
CLTR		09/05/95	A. GUTIERREZ	FOR SITES 1 THROUGH 6A		COMMENTS	2	
0000000000000000	00000		SOUTHWEST DIVISION			SI	3	
0016	03.4		M. RADECKI			GW	4	
						ARAR	5	
						RISK	6A	
N68311	000828	10/11/96	EPA SAN FRANCISCO	EPA COMMENTS TO AMENDED PORTIONS OF THE FINDING OF	ADMIN RECORD	COMMENTS	6A	SOUTHWEST DIVISION
LTR		09/05/95	S. LAUTH	SUITABILITY TO LEASE SEASIDE AVE AND OCEAN BLVD AT		FOSL	BLDG. 95	
0000000000000000	00000		SOUTHWEST DIVISION	FORMER NAVSTA LONG BEACH		RSE		
0001	10.1		R. HOLMAN					
N68311	000981	12/24/97	EPA SAN FRANCISCO	COMMENTS ON DRAFT PRELIMINARY ASSESSMENT FOR	ADMIN RECORD	COMMENTS	AOPC 5	SOUTHWEST DIVISION
LTR		10/11/95	M. HAUSLADEN	THE AREAS OF POTENTIAL CONCERN	INFO REPOSITORY	ASSESSMENT	AOPC 17	L. BCH PUBLIC LIB.
0000000000000000	00000		SOUTHWEST DIVISION				AOPC 13	
0002	10.1		D. ROLLEFSON				AOPC 14	
							AOPC 18	

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N68311 LTR 0000000000000000 0100	000743 03/12/96 00000 01.6	08/21/96 A. LEE RWCQB H. MARLEY	SOUTHWEST DIVISION		NAVY REQUEST FOR EXCLUSION FROM MCL REQUIREMENTS WITH ENCLOSURE: TECHNICAL MEMO - EXAMINATION OF GROUNDWATER BENEFICIAL USES	ADMIN RECORD	GW	1 2 3 4 5 6A 6B	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0004	000746 03/22/96 00000 01.6	08/21/96 S. LEMIEUX SOUTHWEST DIVISION K. KESLER			COMMENTS ON THE FINDINGS OF SUITABILITY TO LEASE NAVY MOLE	ADMIN RECORD	COMMENTS FOSL	1,2,3,4,5 6,7	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0003	000751 04/08/96 01.6	08/21/96 S. LEMIEUX SOUTHWEST DIVISION K. KESLER			COMMENTS ON DRAFT FINAL FINDING OF SUITABILITY TO LEASE, NAVY MOLE	ADMIN RECORD	FOSL	1,2,3,4,5 6A,7	SOUTHWEST DIVISION
N68311 PLAN N6871192D4670 0012	000851 05/13/96 0110 05.1	03/13/97 BECHTEL NATIONAL INC J. KLUESENER VARIOUS AGENCIES			DRAFT TECHNICAL MEMORANDUM PROPOSED PLANS AND RECORDS OF DECISION FOR IR SITES 1-5, 6A AND 7 DATED MAY 13, 1996	ADMIN RECORD	TECH MEMO ROD IRA	1 2 3 4 5 AOC 4 6A 7	SOUTHWEST DIVISION
N68311 CLTR N6871192D4670 0015	000723 05/22/96 05/15/96 00110 04.3	05/22/96 BNI J. KLUESENER SOUTHWEST DIVISION P. KENNEDY			NAVSTA LONG BEACH DRAFT TECHNICAL MEMORANDUM PROPOSED PLAN AND RECORDS OF DECISION FOR IR SITES 1-5, 6A, & 7	ADMIN RECORD INFO REPOSITORY	ROD TECH MEMO RI FS CERCLA NCP	1-5,6A,7	SOUTHWEST DIVISION
N68311 PLAN N6871192D4670 0075	000750 06/19/96 0112 03.5	08/21/96 BNI SAN DIEGO N. THOMAS SOUTHWEST DIVISION P. KENNEDY			FINAL HEALTH AND SAFETY PLAN SUPPLEMENT FOR GROUNDWATER MONITORING DATED JUNE 19, 1996	ADMIN RECORD INFO REPOSITORY	H&SP GW MONITORING	1,2,3,4,5 6A, 6B BLDG.8 BLDG.32	SOUTHWEST DIVISION PUBLIC LIBRARY L.B
N68311 XMTL N6871192D4670 0050	000825 06/20/96 00037 10.1	09/13/96 BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION R. SELBY			RESPONSE TO COMMENTS FOR DRAFT RI DATED JUNE 12, 1996 AND JUNE 20, 1996 W/ENCL	ADMIN RECORD	RESPONSE COMMENTS RI	1 2 3 4 5 6A 6B	SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0039	000772 07/03/96 0095 03.1	08/27/96 BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION P. KENNEDY			ADDITIONAL INVESTIGATION FIELD SAMPLING STRATEGY FOR AOPC 5	ADMIN RECORD	PA SA SAP	AOPC 5	SOUTHWEST DIVISION

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N68311 000807 LTR 0000000000000000 0002	09/10/96 07/03/96 00000 06.3	SOUTHWEST DIVISION D. ROLLEFSON DTSC LONG BEACH A. GUTIERREZ	REQUEST FOR CONCURRENCE OF THE FINAL ADDITIONAL INVESTIGATION FIELD SAMPLING STRATEGY FOR AOPC 5 BUILDING 46 W/O ENCL	ADMIN RECORD	REQUEST INVESTIGATION	AOPC 5 BLDG. 46	SOUTHWEST DIVISION		
N68311 000742 RPT N6871192D4670 7000	08/21/96 07/10/96 00015 03.4	BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION P. KENNEDY	FINAL RI REPORT FOR IR SITES 1 THROUGH 6A VOLUMES I THROUGH VII (W/RESPONSE TO COMMENTS ON THE DRAFT IR FROM DTSC)	ADMIN RECORD	RI IRP DISPOSAL	1,2,3,4,5 6A	SOUTHWEST DIVISION PUBLIC LIBRARY L.B		
N68311 000809 LTR 0000000000000000 0002	09/10/96 07/10/96 00000 01.6	SOUTHWEST DIVISION K. BAER DTSC LONG BEACH A. GUTIERREZ	REQUEST FOR LETTER OF ACCEPTANCE OF THE NAVY'S RESPONSE TO COMMENTS AND THE FINAL RI REPORT BY AUGUST 8, 1996 W/O ENCL	ADMIN RECORD	REQUEST RESPONSE RI	1 2 3 4 5 6A	SOUTHWEST DIVISION		
N68311 000764 LTR 0000000000000000 0004	08/22/96 07/24/96 00000 01.6	DTSC A. GUTIERREZ SOUTHWEST DIVISION D. ROLLEFSON	AGENCY CONCURRENCE WITH PROPOSED FIELD SAMPLING STRATEGY FOR AREAS OF POTENTIAL CONCERN #5 AND AREA 46	ADMIN RECORD	SAP VOC SB	AOPC 5 AREA 46	SOUTHWEST DIVISION		
N68311 000765 LTR 0000000000000000 0004	08/22/96 07/25/96 00000 01.6	DTSC S. LEMIEUX SOUTHWEST DIVISION J. HILL	AGENCY COMMENTS ON LICENSE REQUEST FOR UPLAND INVESTIGATION AT IR SITE 5	ADMIN RECORD	COMMENTS SB	5	SOUTHWEST DIVISION		
N68311 000766 XMTL N-6871192D4670 0007	08/22/96 07/29/96 15/16 06.0	BNI-LA K. KAPUR SOUTHWEST DIVISION R. SELBY	CONTACT REPORT REGARDING RESOLUTION OF STATE AGENCY COMMENTS ON DRAFT RI FOR IR SITES 1 THROUGH 6A	ADMIN RECORD	COMMENTS RI	1,2,3,4,5 6A	SOUTHWEST DIVISION		
N68311 000822 LTR 0000000000000000 0005	09/13/96 08/25/96 00000 01.5	DTSC LONG BEACH A. GUTIERREZ SOUTHWEST DIVISION D. ROLLEFSON	COMMENTS ON THE DRAFT ADDENDUM TO THE FINAL PRELIMINARY ASSESSMENT FOR THE AOCs DATED MAY 1996	ADMIN RECORD	COMMENTS PA	AOPC 21 AOPC 22 AOPC 5 AOPC 17	SOUTHWEST DIVISION		
N68311 000810 RPT N6871192D46701 0300	09/12/96 09/03/96 00095 01.3	BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION	FINAL ADDENDUM TO THE FINAL PRELIMINARY ASSESSMENT FOR THE AOPC	ADMIN RECORD	PA GW SOIL AIR	BLDG 46 BLDG 671 BLDG 756	SOUTHWEST DIVISION		
N68311 000835 MM N6871192D4670 0004	11/14/96 09/03/96 00095 01.6	BNI SAN DIEGO K. KAPUR SOUTHWEST DIVISION R. SELBY	AUGUST 21, 1996 MEETING MINUTES REGARDING ADDITIONAL INVESTIGATION AT AOPC 5, BUILDING 46	ADMIN RECORD	MTG MINS INVESTIGATION	AOPC 5 BLDG. 46	SOUTHWEST DIVISION		
N68311 000885 LTR 0000000000000000 0018	03/26/97 10/28/96 00000 10.1	DTSC LONG BEACH A. GUTIERREZ SOUTHWEST DIVISION K. OSTROUSKI	COMMENTS ON THE DRAFT GROUNDWATER MONITORING WORKPLAN (GWMWP), NAVAL STATION LONG BEACH	ADMIN RECORD	COMMENTS GW MONITORING WORK PLAN	5 OU 1 OU 2 AOC 1 AOC 4 1	SOUTHWEST DIVISION		

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N68311 RPT N6871192D4670 1000	000840 00095 01.2	12/30/96 12/23/96 00095 01.2	BECHTEL NATIONAL K. KAPUR SOUTHWEST DIVISION R. SELBY	DRAFT SITE INSPECTION REPORT FOR AOPC 5	ADMIN RECORD	SI SOIL GW RISK	AOPC 5	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0003	000858 00000 01.2	03/25/97 12/23/96 00000 01.2	SOUTHWEST DIVISION D. ROLLEFSON	LETTER FOR DRAFT SITE INSPECTION REPORT FOR AREA OF POTENTIAL CONCERN 5 (REFER DOC.#000840) "FOR ENCL"	ADMIN RECORD	AOC	AOPC 5	SOUTHWEST DIVISION
N68311 RPT N6871192D4670 0090	000848 0115/97 00111 04.2	03/13/97 01/15/97 00111 04.2	BECHTEL NATIONAL INC K. KAPUR VARIOUS AGENCIES	DRAFT SUPPLEMENTAL ENVIRONMENTAL BASELINE SURVEY (SUPPLEMENTAL EBS) FOR NAVAL STATION LONG BEACH	ADMIN RECORD	EBS	1 4 14 BLDG. 815 BLDG. 4 BLDG. 8 BLDG. 32 BLDG. 42 BLDG. 143 BLDG. 144 BLDG. 272 BLDG. 401 BLDG. 888 BLDG. 673 BLDG. 576 AOPC 5 AOPC 6 AOPC 17 AOPC 9 AOPC 21 AOPC 22 6A 5 3	SOUTHWEST DIVISION
N68311 XMTL 0004	000916 10.1	05/05/97 02/03/97 10.1	USEPA SAN FRANCISCO M. HAUSLADEN SOUTHWEST DIVISION D. ROLLEFSON	EPA/WESTON JOINT COMMENTS ON DRAFT SITE INSPECTION REPORT FOR AREA OF POTENTIAL CONCERN 5	ADMIN RECORD	COMMENTS SI AOPC	AREA 5	SOUTHWEST DIVISION
N68311 LTR 0000000000000000 0004	000975 00000 10.1	12/24/97 02/03/97 00000 10.1	EPA SAN FRANCISCO M. HAUSLADEN SOUTHWEST DIVISION D. ROLLEFSON	JOINT COMMENTS FROM EPA/WESTON ON THE DRAFT SITE INSPECTION REPORT FOR AREA OF POTENTIAL CONCERN 5	ADMIN RECORD INFO REPOSITORY	COMMENTS SI AOPC	AOPC 5	SOUTHWEST DIVISION L. BCH PUBLIC LIB.
N68311 XMTL 0006	000917 10.1	05/05/97 02/25/97 10.1	DTSC LONG BEACH A. GUTIERREZ SOUTHWEST DIVISION D. ROLLEFSON	COMMENTS ON DRAFT SITE INSPECTION REPORT FOR AREA OF POTENTIAL CONCERN 5 W/ENCLOSURE OF SPECIFIC COMMENTS FROM DTSC AND RWQCB	ADMIN RECORD	COMMENTS SI AOPC	AREA 5	SOUTHWEST DIVISION

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N68311	000845	03/13/97	BECHTEL NATIONAL INC	BRAC CLEANUP PLAN (BCP) FOR NAVAL STATION LONG BEACH,	ADMIN RECORD	BRAC	1	SOUTHWEST DIVISION
PLAN		03/01/97	J. KLUESENER	NAVAL HOSPITAL AND ASSOCIATED HOUSING (VERSION NO.4)		CLEANUP	2	
N6871192D4670		00118	SOUTHWEST DIVISION	DATED MARCH 1997		BCP	3	
0142		03.3	R. SELBY			IRP	4	
							5	
							68	
							6A	
							7	
							14	
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N68311	000951	09/23/97	SOUTHWEST DIVISION	REQUEST THAT ALL TIER PERMITTED EQUIPMENT FORMERLY				ADMIN RECORD	REQUEST	AOPC 10	SOUTHWEST DIVISION
LTR		04/24/97	D. ROLLEFSON	LOCATED AT NAVSTA LONG BEACH BE WITHDRAWN FROM AGENCY				INFO REPOSITORY	PERMIT	AOPC 11	L. BCH PUBLIC LIB.
0000000000000000		00000	VARIOUS AGENCIES	DATABASE					BRAC	AOPC 5	
0004		01.6								AOPC 17	
										AOPC 21	
										AOPC 22	
										BLDG. 655	
										BLDG. 831	
N68311	000955	09/23/97	SOUTHWEST DIVISION	TRANSMITTAL OF REMEDIAL INVESTIGATION REPORT FOR IRP				ADMIN RECORD	RI	1	SOUTHWEST DIVISION
CLTR		04/30/97	K. OSTROWSKI	SITES 1 THROUGH 6A, FINAL APPENDIX U, SUPPLEMENTAL				INFO REPOSITORY	IRP	2	L. BCH PUBLIC LIB.
0000000000000000		00000	VARIOUS AGENCIES	FIELD ACTIVITIES FOR IRP SITES 1-4 & 6A (DOC. #000926)						3	
0006		10.1								4	
										5	
										6A	
N68311	000956	09/23/97	BECHTEL NATIONAL INC	TRANSMITTAL OF REVISED SPINE TO REMEDIAL INVESTIGATION				ADMIN RECORD	RI	1	SOUTHWEST DIVISION
CLTR		05/15/97	K. KAPUR	REPORT FOR IRP SITES 1 THRU 6A, FINAL APPENDIX U,				INFO REPOSITORY	IRP	2	L. BCH PUBLIC LIB.
N6871192D4670		00112	VARIOUS AGENCIES	SUPPLEMENTAL FIELD ACTIVITIES (REF. DOC. #000926)						4	
0002		03.4								5	
										6A	
N68311	000930	09/22/97	DTSC, LONG BEACH	COMMENTS TO DRAFT EXPANDED SITE INSPECTION WORK PLAN				ADMIN RECORD	COMMENTS	AOPC 5	SOUTHWEST DIVISION
LTR		05/20/97	A. GUTIERREZ	IR SITE 14, DATED MARCH 31, 1997				INFO REPOSITORY	SI	14	L. BCH PUBLIC LIB.
0000000000000000		00000	VARIOUS AGENCIES	(REF. DOC. #000911)					WORK PLAN		
0007		10.1							GW		
									DATA		
N68311	000963	09/23/97	BECHTEL NATIONAL INC	FINAL SITE INSPECTION REPORT FOR AREA OF POTENTIAL				ADMIN RECORD	SI	AOPC 5	SOUTHWEST DIVISION
RPT		06/05/97	K. KAPUR	CONCERN 5					GW	BLDG. 46	
N6871192D4670		00095	SOUTHWEST DIVISION						VOC	BLDG. 8	
0900		01.2	R. SELBY						PCE	7	
									SOIL		
									PRG		
									UST		
									MONITORING		
									WELLS		
									IDW		
N68311	000929	09/22/97	SOUTHWEST DIVISION	TRANSMITTAL OF FINAL SITE INSPECTION REPORT FOR AREA				ADMIN RECORD	SI	AOPC 5	SOUTHWEST DIVISION
CLTR		06/09/97	D. ROLLEFSON	OF POTENTIAL CONCERN 5, DATED JUNE 1997, REQUEST FOR				INFO REPOSITORY	REQUEST		L. BCH PUBLIC LIB.
0000000000000000		00000	VARIOUS AGENCIES	CONCURRENCE (W/O ENCL)					COMMENTS		
0003		01.6									
N68311	000966	09/25/97	BECHTEL NATIONAL INC	DRAFT FINAL REMEDIAL INVESTIGATION REPORT IRP FOR				ADMIN RECORD	RI	7	SOUTHWEST DIVISION
RPT		06/30/97	K. KAPUR	WEST BASIN (SITE 7)					IRP	OU 3	
N6871192D4670		00026	VARIOUS AGENCIES	(VOLUMES I-IV)					WATER	7A	
3200		03.4							PCB	7B	
									SEDIMENTS	BLDG. 143	
									ARAR	BLDG. 144	
									HABITAT	BLDG. 145	
									DREDGING	PIER 9	
									PIPELINE	BLDG. 8	

DATE - 10/05/98

NAVAL STATION LONG BEACH ADMINISTRATIVE RECORD FILE SITE 5

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UIC NO.	DOC.NO.	PRC.DATE	FROM.....	DOCUMENT.TYPE...	DOC.DATE	FROM.SIGNATURE.....	CONTR/GUID..NO..	CTO.NO..	TO.....	SUBJECT.....	CLASSIFICATION	KEY WORDS	...Site...Location.....
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N68311	000992	03/16/98	EPA SAN FRANCISCO	COMMENTS ON DRAFT FEASIBILITY STUDY FOR INSTALLATION	ADMIN RECORD	COMMENTS	3							SOUTHWEST DIVISION
LTR		01/05/98	M. HAUSLADEN	RESTORATION SITES 3,4, 5 AND 6A	INFO REPOSITORY	FS	4							L. BCH PUBLIC LIB.
0000000000000000	00000		SOUTHWEST DIVISION			IR	5							
0007	10.1		K. OSTROWSKI				6A							
N68311	001002	03/16/98	CRWQCB MONTEREY PARK	CONCURRENCE WITH THE NAVY'S RECOMMENDATIONS FOR THE	ADMIN RECORD	FS	3							SOUTHWEST DIVISION
LTR		01/13/98	J. ROSS	DRAFT FEASIBILITY STUDY FOR INSTALLATION RESTORATION	INFO REPOSITORY	IR	4							L. BCH PUBLIC LIB.
0000000000000000	00000		SOUTHWEST DIVISION	SITES 3,4,5 AND 6A			5							
0001	10.1		K. OSTROWSKI				6A							

APPENDIX E
PUBLIC COMMENTS AND NAVY RESPONSES

**Responses to Public Comments on Preferred Alternative
Sites 3, 4, 5, and 6A
Long Beach Naval Station, Long Beach, CA**

Commentor: DAVE HALL

Comment: The preferred alternative should meet the needs of the community and marine life.

Response: Installation Restoration (IR) Sites 3, 4, 5, and 6A are located at Naval Station (NAVSTA) Long Beach, within the western part of the Long Beach Naval Complex (LBNC). Responsibility for maintenance and security of these sites resides with Southwest Division Naval Facilities (SWDIV NAVFAC) until the property is disposed of, leased, or transferred. Under current agreements, the property will be transferred to the Local Redevelopment Authority (City of Long Beach or City of Los Angeles, depending upon the parcel), after the environmental activities are complete.

The Reuse Plan for the LBNC was prepared by the Local Redevelopment Authority, which included input from members of the community. The Reuse Plan recommended industrial use for the land. As proposed, the LBNC, which includes IR Sites 3, 4, and the Long Beach portion of 6A, will be deeded to the City of Long Beach for use as a port facility. The Los Angeles portion of Site 6A is proposed to be deeded to the City of Los Angeles in support of the Port Authority of Los Angeles Pier 300/400 projects. Site 5 will be transferred back to the Port Authority of Los Angeles in support of industrial uses.

The preferred alternatives for IR Sites 3, 4, 5, and 6A are adequate to release the land, under deed restrictions, for the uses described above. Because the decision for future land use for IR Sites 3, 4, and 6A was made by the Local Redevelopment Authority with participation by community members, the preferred alternatives are considered to meet the needs of the community.

No chemicals of concern (COCs) were identified in groundwater at IR Sites 3, 4, 5, or 6A. The calculations performed by the groundwater computer model estimate that the receiving surface waters will not be affected by the transport of any contaminants in IR Sites 3, 4, or 5 groundwater. IR Site 6A groundwater is generally flowing away from the marine ecosystem.

Groundwater monitoring is currently conducted quarterly at IR Sites 3 and 6A to ensure that residual chemicals present in the groundwater do not exceed California Ocean Plan criteria and are not migrating to marine ecosystems. Thus, the preferred alternatives are considered to meet the needs of marine life

Comment: Continued monitoring of water quality is necessary to maintain the health of the environment.

Response: There are no chemicals of concern (COCs) and no areas of concern (AOCs) at

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any of the IR Sites. Risk assessments completed for the site indicate that the residual chemicals present in soils and groundwater do not pose a threat to human health under an industrial exposure scenario or to the environment.

Groundwater monitoring for IR Sites 3 and 6A is expected to continue for one year. At the end of that period, groundwater conditions will be evaluated and a determination will be made as to whether the monitoring program should be extended. The determination will be made by the Los Angeles Regional Water Quality Control Board (RWQCB), the California Department of Toxic Substances Control (DTSC), the U.S. Environmental Protection Agency (USEPA), and the U.S. Department of Navy (DON).

The RWQCB, DTSC, USEPA, and DON determined that groundwater monitoring at IR Site 4 demonstrated that groundwater conditions were stable and not a threat to human health or the environment. Therefore, the groundwater monitoring program at IR Site 4 was discontinued.

Risk due to groundwater at IR Site 5 is less than the EPA point of departure and is considered unconditionally acceptable. Therefore, groundwater monitoring at IR Site 5 is not warranted.

Comment: Why do the alternatives only call for temporary monitoring? On-going, long-term monitoring will best guarantee adequate health.

Response: Current quarterly groundwater monitoring at IR Sites 3 and 6A is necessary to ensure that migration of groundwater to marine ecosystems at concentrations in excess of the California Ocean Plan criteria is not occurring. The determination will be made by the RWQCB, DTSC, USEPA, and DON.

The preferred alternatives call for one year of (continued) groundwater monitoring at IR Sites 3 and 6A. At the end of that period, the stability of the plume will be evaluated and a determination made as to whether the monitoring program should be extended. Groundwater monitoring at IR Sites 3 and 6A will be discontinued only if the Los Angeles RWQCB, DTSC, USEPA, and DON determine that the groundwater conditions at IR Sites 3 and 6A are stable and not a threat to human health or the environment.

Comment: What about damage to the Least Tern, an endangered species using the area?

Response: The California Least Tern does not use IR Sites 3, 4, 5, or 6A for either nesting or foraging (see *Final Environmental Impact Statement/Environmental Impact Report for the Disposal and Reuse of Long Beach Complex, Long Beach, California*. United States Navy and City of Long Beach. April 1998). Therefore neither site conditions nor remedial action on the sites should affect the Least Tern.

Comment: Why does "deeding" the land help to meet the health needs of the area? I do not understand the connection.

Response: Risk assessments completed for the site indicate that the residual chemicals present in soils and groundwater do not pose a threat to human health under an industrial exposure scenario or to the environment. Deed restrictions on IR Sites 3, 4, 5, and 6A will prevent changes in future land use that may increase exposure risks by limiting future land use options and activities on these sites to industrial use. They can also limit groundwater use and excavations. Thus, they limit exposure pathways to humans and to the environment from contamination present at the sites.

Commentor: JOY WILLIAMS

Comment: As a former resident of Long Beach, I am concerned that the Navy is planning to walk away from Naval Station Long Beach leaving it unfit for any uses except industry.

Response: Installation Restoration (IR) Sites 3, 4, 5, and 6A are located in the western part of the Long Beach Naval Complex (LBNC). Under current agreements, the property will be transferred to the Local Redevelopment Authority (City of Long Beach or City of Los Angeles) depending upon the parcel, after environmental activities are complete.

The Reuse Plan for the LBNC was prepared by the Local Redevelopment Authority, which included input from members of the community. The Reuse Plan recommended industrial use for the land. As proposed, the LBNC, which includes IR Sites 3, 4, and the Long Beach portion of 6A, will be deeded to the City of Long Beach for use as a port facility. The Los Angeles portion of Site 6A is proposed to be deeded to the City of Los Angeles in support of the Port Authority of Los Angeles Pier 300/400 projects. Site 5 will be transferred back to the Port Authority of Los Angeles in support of industrial uses.

The preferred alternatives for IR Sites 3, 4, 5, and 6A are adequate to release the land, under deed restrictions, for the industrial uses described above. Because the decision for future land use for IR Sites 3, 4, and 6A was made by the Local Redevelopment Authority with participation by community members, the preferred alternatives are considered appropriate for the anticipated industrial land use.

Comment: The alternative selected for these sites, institutional controls (deed restrictions), amounts to a flimsy rationale for dumping Navy pollution onto future generations.

Response: As noted above, the proposed future land use was identified by the Local Redevelopment Authority and is consistent with current land use in the vicinity of LBNC, which is port-related, commercial, or industrial. The areas west and east of the facility are used for commercial shipping, liquid bulk handling, heavy industrial activities, and commercial fishing activities. The area north of the facility is used for oil production activities. Risk assessments completed for the site indicate that the residual chemicals present in soils and groundwater do not pose a threat to human health under an industrial exposure scenario or to the environment.

Deed restrictions on IR Sites 3, 4, 5, and 6A will prevent changes in future land use by limiting future land use as industrial. They can also limit groundwater use and

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excavations. Thus, they limit exposure pathways to humans and to the environment from residual chemicals present at the sites. Therefore, the preferred alternatives for IR Sites 3, 4, 5, and 6A are adequate to release the land, under deed restrictions, for the industrial uses described above.

In addition, the preferred alternatives call for one year of (continued) groundwater monitoring at IR Sites 3 and 6A. At the end of that period, the stability of the plume will be evaluated and a determination made as to whether the monitoring program should be extended. Groundwater monitoring at IR Sites 3 and 6A will be discontinued only if the Los Angeles RWQCB, DTSC, USEPA, and DON determines that the groundwater conditions at IR Sites 3 and 6A are stable and not a threat to human health or the environment.

Comment: When the Navy came to Long Beach, the land was clean enough for any land uses including residences, schools, or agriculture. Now the Navy proposes to vacate Long Beach, leaving it unsuitable for children, growing plants, or much of anything else. This is a shabby way to treat a former "Navy town."

Response: The LBNC was built in the early 1940's in defense of U.S. borders and to service the U.S. fleet in the Pacific during war time. Much of the "land" on which IR Sites 3, 4, 5, and 6A is located, including all of the mole and Gull Park, did not exist prior to the establishment of the LBNC. Rather, it was built by the Navy, using dredge and fill from the ocean, and placement of a stabilizing cap. Its purpose, to provide support, service, and maintenance of the U.S. Navy fleet, has always been consistent with "industrial use."

Further, there are no potable groundwater resources at IR Sites 3, 4, 5, or 6A due to the high levels of total dissolved solids in the groundwater. That is, groundwater encountered under IR Sites 3, 4, 5, and 6A at depths up to 25 ft below ground surface (bgs), is mixed naturally with seawater. It is thus unsuitable as drinking water, and has limited usefulness for other purposes. Risk assessments completed for the site indicate that the residual chemicals present in soils and groundwater do not pose a threat to human health under an industrial exposure scenario or to the environment.

Comment: Furthermore, I have no confidence that deed restrictions will be an effective control mechanism for longer than one or two generations in the future, whereas many of the pollutants will remain hazardous indefinitely. Human predictions of the future are notoriously unreliable, and it cannot be stated with any certainty that this land will remain exclusively industrial; and it easy to imagine that deed restrictions would be conveniently overlooked the moment they become an obstacle.

Response: Deed restrictions on IR Sites 3, 4, 5, and 6A will prevent changes in future land use. Deed or zoning restrictions are necessary to ensure that land usage at the sites remains industrial. They do so by limiting future land use options and activities on these sites to industrial use. They may also include a wide range of provisions intended to mitigate potential soil and groundwater threats, including limiting groundwater use and subsurface borings and excavations.

Further, land use in the vicinity of LBNC is port-related, commercial, or industrial. The areas west and east of the facility are used for commercial shipping, liquid bulk handling, heavy industrial activities, and commercial fishing activities. The area north of the facility is used for oil production activities. Land use includes primary port uses, tank farms, automobile terminals, a cement terminal, cargo handling, cargo terminals, and Southern California Edison Long Beach Generating Station (SCE-LBGS). Given the current use of nearby areas, continued industrial land use is a reasonable expectation for the future.

In the event of an alternative future land use at any of the sites, all calculations performed in the human health risk assessment (HHRA) for that site would have to be re-evaluated.

Comment: The only acceptable option is for the Navy to clean up its own messes. All sites must be cleaned up to a level where the land is suitable for all uses, including residential uses, before these IR sites are closed.

Response: The Navy has conducted all work on IR Sites 3, 4, 5, and 6A according to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and following all appropriate Federal, state, and local regulations. Selection of preferred remedial action alternatives were based on human health risks and expected future land use. Remediating IR Sites 3, 4, 5, and 6A to residential standards would be extremely costly. The future use for this area has been designated as industrial and through the application of deed restrictions will remain industrial. The application of residential clean up standards would provide no greater measure of protection to future industrial workers at the sites.