

PA Summary

DoD Site #

91

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address	
0080-140-170	J R SCHNEIDER CO INC	849 JACKSON STREET	
Year Bldg. Built	1942	Year Bldg. Removed	Not applicable
Site Area (SqFt)	68257		
Current Land Use	Mixed Use-Lower Arsenal		

OPERATIONAL HISTORY

DoD Use Type

Industrial/Manufacturing Shops

DoD Uses

Machine Shop/Combat Vehicle and Artillery Repair

Secondary DoD Uses

Fuel Type

Post-Army Uses

1973: Kaiser Aluminum and Chemical for metal fabrication and casting. 1973-77: Fiberboard Corp. for manufacture of plastic pipes (ref 584). Currently used by J.R. Schneider Company to manufacture filtration systems.

Flooring

Concrete

Disposal Information

None Listed

Activities (inside/outside)

Inside/Outside

Records Research Report Addenda Data

Teardown and Main Assembly: five (5) hydraulic press 60 ton, solvent tank (6). Recoil: Degreaser and still (120" x 42"). Gun Tube: radial drill (13 column x 7' swing arm), gun tube degreaser (135 gal.), hot grease and solvent tanks (8'x3'x3'), gun tube cleaning machine (240 mm tube).(ref 714). Expansion and Rehabilitation of Facilities document dated 15 June 1951 included connecting utilities to a new degreaser and still (presumably for solvent purification), installation of a paint spray booth, blast machine, infrared dryer, and a carbon jet cleaning machine. Renovation also included a sump pump in the boiler room.

Records Research Report Comments

Potential beneficial use. Foundation built on solid rock. Construction of a ramp around the degreaser occurred in 1951. Steam heaters served as temporary paint dryers until the arrival of drying ovens. Six soil samples were (analyzed for fuels and related compounds and metals) taken in 1993 and all were found to have components less than regulatory action levels. In a letter to J.R. Schneider dated 2 April 1993, the SCDDEM ordered the company to cease and desist discharging untreated wastewater to grade (ref 532).

ENVIRONMENTAL SUMMARY

Vessel Inventory

Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army

PA Summary

DoD Site #

91

Area: I

Vessel Inventory

	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 1	AST	US Army	0	Unknown	Hot Grease/Solvents	Pre-1957	Unknown	Unknown	<input type="checkbox"/>
Uses: Hot Grease and Solvent Tank Comments: Pre-1957 based on reference 714, equipment list for new facility. Tank was 8'x3'x3'.									
Vessel # 2	AST	US Army	0	Unknown	Solvents	Pre-1957	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Pre-1957 based on reference 714, equipment list for new facility.									
Vessel # 3	AST	US Army	0	Unknown	Solvents	Pre-1957	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Pre-1957 based on reference 714, equipment list for new facility.									
Vessel # 4	AST	US Army	0	Unknown	Solvents	Pre-1957	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Pre-1957 based on reference 714, equipment list for new facility.									
Vessel # 5	AST	US Army	0	Unknown	Solvents	Pre-1957	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Pre-1957 based on reference 714, equipment list for new facility.									
Vessel # 6	AST	US Army	0	Unknown	Solvents	Pre-1957	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Pre-1957 based on reference 714, equipment list for new facility.									
Vessel # 7	AST	US Army	0	Unknown	Solvents	Pre-1957	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Pre-1957 based on reference 714, equipment list for new facility.									
Vessel # 8	AST	US Army	0	Unknown	Unknown	Pre-1957	Unknown	Unknown	<input type="checkbox"/>
Uses: Degreaser Comments: Pre-1957 based on reference 714, equipment list for new facility. Degreaser and Still 12"x 42".									
Vessel # 9	Booth	US Army	0	Unknown	Paints	Pre-1951	Unknown	Unknown	<input type="checkbox"/>
Uses: Paint Booth Comments: Pre-1951 based on Records Research data from an Expansion and Rehabilitation of Facilities document dated 15 June 1951.									

Furthest Stage of Environmental Investigation

NONE

COMMENTS

This building is associated with Building 91A. Building 91A is an addition built onto Building 91 in 1951. One gas-fueled boiler was installed in 1942 and was in existence with 11 yrs. of service left as of 1961 facility data report (ref 1093). Activities in this building involved vehicle repair. Locations of the processes are unknown.

RECOMMENDATIONS

Additional investigation is recommended to determine the presence or absence of fuels, solvents, and oils in groundwater downgradient of the building for a potential release from former cleaning and degreasing activities.

PA Summary

DoD Site #

91A

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)

Owner Name

Site Address

0080-140-170

J R SCHNEIDER CO INC

849 JACKSON STREET

Year Bldg. Built

1951

Year Bldg. Removed

Not applicable

Site Area (SqFt)

27266

Current Land Use

Mixed Use-Lower Arsenal

OPERATIONAL HISTORY

DoD Use Type

Industrial/Manufacturing Shops

DoD Uses

Temporary Machine Shop/Engine Rebuild

Secondary DoD Uses

Fuel type

Post-Army Uses

Fabrication of electrical signs for Farn Reed (ref 425). Kaiser Steel Corp from 1974 to 1977 for storage of furniture and household goods (refs 587 and 702). Fibreboard Corp from late 1973 to 1977 for the manufacture of plastic pipes (refs 425, 587, and 702). 1977: Clark Industrial Machinery Co. as a machine shop. Currently used by J.R. Schneider Company, Inc. for manufacture of filtration systems.

Flooring

Concrete

Disposal Information

Unknown

Activities (inside/outside)

Inside

Records Research Report Addenda Data

In a 1952 Brown and Caldwell survey, reported operations included steam cleaning of small parts, degreasing, dipping, and painting (ref 405). Drawing 6334, dated 21 March 1960 shows the relocation of the blast cleaning apparatus in the southeast corner and identifies a dust collector, blast barrel, grit reclaimer, roto-blast unit, existing cold well and hot well, existing baking oven, and paint booth (ref 626). Building 91Add was added to Building 91 in 1951 to assist in the combat vehicle rebuilding efforts. Drawing 4685 dated 18 August 1950 identifies the fabrication specifications for the tanks to be used in the power train rebuild operations. Included are paint strip tank (2), steam jet tank (2), acid tank (2) and water rinse tank (2). All tanks were to be constructed of black iron except the acid tank which was to be constructed of stainless steel (ref 714). Drawing 4177 dated 20 December 1950 identifies the acid, rinse, degreaser, steam, and strip tanks in the center of the west side of the addition to the building. Paint booths were to be located adjacent to the future gas fired ovens on the opposite side of the building from the tanks. Catch basins are also identified (ref 628).

Records Research Report Comments

Machine shop moved to Building 98 in 1952. According to an article in the Benicia Bomber, dated February 1951, the Power Train Rebuild Branch was responsible for the repair, rebuild and replacement of the inner components of transmissions, transfer cases, rear and front axles, prop shafts, power take offs, steering gears, and winches for Dodge, GMC, Chevrolet, International, and Jeep truck, pickup, and passenger vehicles. There was a four step cleaning process that included: 1) an alkali compound, 2) a caustic solution, 3) phosphoric acid, and 4) hot water tanks for rinsing. When the parts were dry, they were brought to the assemblers and to the test stands. Following an approved test run, the reassembled parts would be taken to the paint booths and on to the processing department. New steam and cleaning vats were just installed in the power train section at the time the article was written (ref 135).

PA Summary

DoD Site #

91A

Area: I

ENVIRONMENTAL SUMMARY

Vessel Inventory

	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 1	Booth	US Army	0	Unknown	Paints	1950	Unknown	Unknown	<input type="checkbox"/>
	Uses: Paint booth								
	Comments: Exact location unknown. Removed								
Vessel # 2	Booth	US Army	0	Unknown	Paints	1950	Unknown	Unknown	<input type="checkbox"/>
	Uses: Paint booth								
	Comments: Exact location unknown. Removed								
Vessel # 3	Booth	US Army	0	Unknown	Paints	1960	Unknown	Unknown	<input type="checkbox"/>
	Uses: Paint booth								
	Comments: Exists today								
Vessel # 4	AST	US Army	0	Black Iron	Solvents	Post 1951	Unknown	Unknown	<input type="checkbox"/>
	Uses: Degreaser Dip Tank								
	Comments: Exact location unknown. Removed								
Vessel # 5	Booth	US Army	0	Unknown	Water	Post 1951	Unknown	Unknown	<input type="checkbox"/>
	Uses: Steam booth								
	Comments: Location known. Removed								
Vessel # 6	Booth	US Army	0	Unknown	Water	Post 1951	Unknown	Unknown	<input type="checkbox"/>
	Uses: Steam booth								
	Comments: Location known. Removed								
Vessel # 7	AST	US Army	0	Black Iron	Unknown	Post 1951	Unknown	Unknown	<input type="checkbox"/>
	Uses: Strip Tank								
	Comments: Location known. Removed								
Vessel # 8	AST	US Army	0	Black Iron	Unknown	Post 1951	Unknown	Unknown	<input type="checkbox"/>
	Uses: Strip Tank								
	Comments: Location known. Removed								
Vessel # 9	AST	US Army	0	Black Iron	Water	Post 1951	Unknown	Unknown	<input type="checkbox"/>
	Uses: Steam Tank								
	Comments: Location known. Removed								
Vessel # 10	AST	US Army	0	Black Iron	Unknown	Post 1951	Unknown	Unknown	<input type="checkbox"/>
	Uses: Steam Tank								
	Comments: Location known. Removed								
Vessel # 11	AST	US Army	0	Stainless Steel	Acid	Post 1951	Unknown	Unknown	<input type="checkbox"/>
	Uses: Dip Tank								
	Comments: Location known. Removed								
Vessel # 12	AST	US Army	0	Stainless Steel	Acid	Post 1951	Unknown	Unknown	<input type="checkbox"/>
	Uses: Dip Tank								
	Comments: Location known. Removed								
Vessel # 13	AST	US Army	0	Black Iron	Water	Post 1951	Unknown	Unknown	<input type="checkbox"/>
	Uses: Rinse								
	Comments: Location known. Removed								

PA Summary

DoD Site #

91A

Area: I

Vessel Inventory

Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 14 AST	US Army	0	Black Iron	Water	Post 1951	Unknown	Unknown	<input type="checkbox"/>

Uses: Rinse

Comments: Location known. Removed

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Drawings are available that show the location of process tanks in this building. The tanks no longer exist. Features remain inside the building (holes in roof for exhaust hoods that once covered the process tanks).

RECOMMENDATIONS

Additional investigation is recommended to determine the presence or absence of fuels, solvents, and oils in groundwater downgradient of the building for a potential release from former cleaning and degreasing activities.

PA Summary

DoD Site #

92

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-150-070	BENICIA BENGALS LLC	1350 HAYES STREET			
Year Bldg. Built	1942	Year Bldg. Removed	Not applicable	Site Area (SqFt)	25387
Current Land Use	Mixed Use-Lower Arsenal				

OPERATIONAL HISTORY

DoD Use Type

Administrative

DoD Uses

Headquarters/office building/Photographic Laboratory

Secondary DoD Uses

Laboratory

Post-Army Uses

1973: office space for Sollitt Construction (ref 418) 1973: Dillingham Construction Corp., Diablo Personnel Agency (Rooms. 111 & 112) (ref 418). 1973-1977: Sperry Rand Corp. (ref 587 and 702). 1977: Solano Contract Warehouse Corp. (ref 702), and Benicia Industries (ref 587). Structure remains and currently serves as an office complex owned by the California Builders Association.

Flooring

Unknown

Disposal Information

Drawings of the laboratory facilities indicate that chemical wastes from the photo processing could have been disposed of without treatment directly into the sewer drainage system.

Activities (inside/outside)

Inside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

According to Mr. Byerrum, a former Arsenal employee, a section of basement used for the photography laboratory prior to closing (Byerrum, 1997). Presumably the laboratory was moved from Building 74.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

The sewer system was used by landowners after the Army left in 1964.

RECOMMENDATIONS

USACE's position is that any building, structure or system that remained in use after the Army left the former Arsenal has the possibility of use. These structures are ineligible for investigation under the FUDS program. Therefore, no DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

93

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-150-290	ORMOND THOMAS R	938 ADAMS STREET
Year Bldg. Built	Year Bldg. Removed	Site Area (SqFt)
1941	Not applicable	9806
Current Land Use Mixed Use-Lower Arsenal		

OPERATIONAL HISTORY

DoD Use Type
Industrial/Manufacturing Shops

DoD Uses
Truck Storage Building/MMW Repair, Motor Vehicle Maintenance Building.

Secondary DoD Uses
Fuel type

Post-Army Uses
1968-1973: Kayot Sales, Inc. for the assembly and distribution of boats and marine accessories (ref 587). No current user.

Flooring
Unknown

Disposal Information
Unknown

Activities (inside/outside)
Unknown

Records Research Report Addenda Data
Identified as MHE Parts Room and MHE Repair Shop date to vacate 7/31/62 (ref 713). Included in the Schedule A-Supplement to Report of Excess Real Property was a cleaner, chemical and steam, gas fired. In 1942, constructed as vehicle repair shop. Drawing 4307, dated 7 February 1947; identifies building as Motor Vehicle Maintenance Building (ref 371).

Records Research Report Comments
Vehicle rebuild. Field maintenance of material handling equipment (ref 541). Details include a gasoline engine at the steam washer, oil pressure tanks, two grease tanks, two compressors and two Globe hoists, and a floor drain located in the center of the building.

ENVIRONMENTAL SUMMARY

Vessel Inventory

	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 1	AST or UST?	US Army	0	Unknown	Grease	Post 1942	Unknown	Unknown	<input type="checkbox"/>
Uses: Grease									
Comments: Unknown if AST or UST.									
Vessel # 2	AST or UST?	US Army	0	Unknown	Grease	Post 1942	Unknown	Unknown	<input type="checkbox"/>
Uses: Grease									
Comments: Unknown if AST or UST.									

Furthest Stage of Environmental Investigation
NONE

PA Summary

DoD Site #

93

Area: I

COMMENTS

Building used by DoD for vehicle repair.

RECOMMENDATIONS

Additional investigation is recommended to determine the presence or absence of fuels, solvents, and oils in groundwater downgradient of the building for a potential release from former vehicle maintenance activities.

PA Summary

DoD Site #

95

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-130-020	BENICIA CITY				
Year Bldg. Built	1942	Year Bldg. Removed	Post 1964	Site Area (SqFt)	334763
Current Land Use	Wharf				

OPERATIONAL HISTORY

DoD Use Type

Wharf Facilities

DoD Uses

Wharf

Secondary DoD Uses

None Listed

Post-Army Uses

In May 1968, the western 1,000 feet of the Wharf was used for receiving, storing, handling and loading aboard vessels fluidized petroleum coke. Valero (formerly Exxon) owns and operates the coke loading facility on land leased from Benicia industries (ref 539). The wharf also is used by Bay Cities Transportation for mooring space.

Flooring

Concrete

Disposal Information

None Identified

Activities (inside/outside)

Outside

Records Research Report Addenda Data

A document referencing the 1956 Wharf rehabilitation, indicated that the facility was considered a point of consolidation for all export bound supplies awaiting loading. Building 95 was scheduled to vacate March 1964 (ref 713).

Records Research Report Comments

Designed to accommodate four ocean going vessels simultaneously. The construction included several storage facilities (T138, T139, T141, and T143) as well as a transformer house (Building 97) and a hoist building (Building 108). All types of ordnance materiel and supplies including chemical warfare materials were received and shipped from this facility (ref 9). Wharf also served as an unloading point for supplies returned from overseas.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

The Wharf was used as a point of consolidation for all export bound supplies awaiting loading.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for the Wharf.

PA Summary

DoD Site #

97(A)

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-130-020	BENICIA CITY				
Year Bldg. Built	1942	Year Bldg. Removed	Post 1964	Site Area (SqFt)	92
Current Land Use	Wharf				

OPERATIONAL HISTORY

DoD Use Type

Wharf Facilities

DoD Uses

Transformer house on wharf

Secondary DoD Uses

Transformer

Post-Army Uses

None identified

Flooring

Concrete

Disposal Information

None Listed

Activities (inside/outside)

Unknown

Records Research Report Addenda Data

(This building is referenced in the Records Research Report as Building 97). Building 97(A) was scheduled to vacate March 1964 (ref 713).

Records Research Report Comments

None Listed

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

98

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-160	UNICO INDUSTRIAL SERVICESCO	1209 POLK ROAD			
Year Bldg. Built	1942	Year Bldg. Removed	Not applicable	Site Area (SqFt)	41394
Current Land Use	Mixed Use-Lower Arsenal				

OPERATIONAL HISTORY

DoD Use Type

Industrial/Manufacturing Shops

DoD Uses

Carpenter Shop/Machine Shop

Secondary DoD Uses

Fuel type

Post-Army Uses

1967-1981: Manufacturing of bed frames for Harvard Manufacturing (refs 425, 579 and 587). Currently a machine shop for Unico Services, Inc.

Flooring

Concrete

Disposal Information

Unknown

Activities (inside/outside)

Inside

Records Research Report Addenda Data

SERVICE SHOPS: Millwright: 60 ton hydraulic press. Heat Treating: 3600 watt furnace, 13 kW furnace; Machining and Grinding (ref 714).

Records Research Report Comments

Directly across from shop Buildings 55, 56 and 57. Records Research was unable to locate any information about building operations.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Cleaning and rebuild processes were performed in other buildings in the area (e.g. Buildings 31, 91A, 91, 57, 56) where solvents and waste oil were present. Records indicate that this building was used as a machine shop by the Army. However, there are no records indicating any inventory of these substances (waste oil and solvents) in this building.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

99

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-140-100	BENICIA INDUSTRIES INC	1200 ADAMS STREET
Year Bldg. Built	1942	Year Bldg. Removed
		1970's
Current Land Use	Industrial-Waterfront	
	Site Area (SqFt)	20000

OPERATIONAL HISTORY

DoD Use Type

Industrial/Manufacturing Shops

DoD Uses

Storehouse/Shop Building

Secondary DoD Uses

Fuel type

Post-Army Uses

Leased to Weldon Leather Co. beginning 1969 for leather processing (ref 587).

Flooring

Unknown

Disposal Information

Unknown

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Building 99 identified as the Packing section (ref 713). Original construction plans dated 18 June 1942 detailed plans for grading and paving in the vicinity of the proposed ware house. Drawing 5373 dated 15 August 1952 included a ball bearing processing room at its north end (ref 633). Drawing 6366, dated 25 April 1960 identified tanks: SAE10 Cold (two), Solvent Cold (three), and Print Remover Cold. Also included were an infrared drier, a greaser, transformers, a mailing machine, and a bander (ref 392).

Records Research Report Comments

Used as a ball bearing processing plant by DoD. Demolished by Benicia Industries in the 1970's. An abandoned cistern at the western edge of the structure was to be cleaned and filled with compacted fill (ref 632).

ENVIRONMENTAL SUMMARY

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
1	Cistern	US Army	0	Unknown	Water	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Emergency storage for fire Comments: An abandoned cistern at the western edge of the structure was to be cleaned and filled with compacted fill (ref 632)(Appendix C1).									
2	AST	US Army	0	Unknown	SAE10	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Processing Comments: Identified in Drawing 6366, dated 25 April 1960. Cold tank.									

PA Summary

DoD Site #

99

Area: I

Vessel Inventory

	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 3	AST	US Army	0	Unknown	SAE10	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Processing Comments: Identified in Drawing 6366, dated 25 April 1960. Cold tank									
Vessel # 4	AST	US Army	0	Unknown	Solvent	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Identified in Drawing 6366, dated 25 April 1960									
Vessel # 5	AST	US Army	0	Unknown	Solvent	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Identified in Drawing 6366, dated 25 April 1960									
Vessel # 6	AST	US Army	0	Unknown	Solvent	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Identified in Drawing 6366, dated 25 April 1960									
Vessel # 7	AST	US Army	0	Unknown	Solvent	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Print Remover Comments: Identified in Drawing 6366, dated 25 April 1960									

Furtherest Stage of Environmental Investigation

NONE

COMMENTS

Between February 1995 and February 1997, Benicia Industries, Inc. (BII) investigated potential contamination releases from Building 99 along the "solvent and oil process line" identified in the Records Research Report. Found no evidence of solvent releases at the former Building 99 solvent and oil process line. However, a release of TPH (in the form of naptha) has occurred in this area. This conclusion is based on the past processes and chemical uses, the presence of zones of gray-stained mudstone and elevated PID readings extending vertically downward from the ground surface, and detectable concentrations of TPH decreasing laterally and vertically. Because no TPH was detected in the groundwater in this area, the impact of a petroleum hydrocarbon release is not thought to be significant. BII concluded that no additional work was needed to assess the extent of the release of organic chemicals from Building 99 (ref 1203). Unknown if the regulator agencies agree to the findings and recommendations in this report. The building was in use since closure of the former Arsenal and is considered to provide beneficial use to the current owners. Pursuant to Chapter 3, Section 7.2.3.5 of USACE Engineering Circular EC-200-3-7, DERP-FUDS Program Manual, dated 30 September 1999, beneficially used structures are ineligible for investigation under the FUDS Program.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

99A

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-100	BENICIA INDUSTRIES INC	1200 ADAMS STREET			
Year Bldg. Built	1944	Year Bldg. Removed	1976-1998	Site Area (SqFt)	33546
Current Land Use	Industrial-Waterfront				

OPERATIONAL HISTORY

DoD Use Type

Industrial/Manufacturing Shops

DoD Uses

Storehouse/Shop Building

Secondary DoD Uses

Fuel type

Post-Army Uses

Building 99A used for leather processing by Weldon Leather Co. Inc. 1969-76 (ref 587).

Flooring

Unknown

Disposal Information

Unknown

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Drawing 6366 from April 1944 is the only available record detailing the facility and includes additional items associated at the building such as manholes, catch basins, sewer lines, and water lines (ref 608). Records Research also identifies a production operation involving the use of preservatives and sealers, but in limited detail.

Records Research Report Comments

Used as a ball bearing processing plant by DoD. Demolished by Benicia Industries. Housed packaging and sealing operations.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

The production line with solvents and degreasing was performed in adjacent buildings - Building 48 and 99. In 1995 through 1997, an investigation was conducted by Benicia Industries at Buildings 48, 99 and 99A. The work focused on the production lines in Building 48 and 99. There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

101

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-140-100	BENICIA INDUSTRIES INC	1200 ADAMS STREET
Year Bldg. Built	1942	Year Bldg. Removed
		1973-1998
Current Land Use	Industrial-Waterfront	
	Site Area (SqFt)	7711

OPERATIONAL HISTORY

DoD Use Type

Industrial/Manufacturing Shops

DoD Uses

Battery Charge Building

Secondary DoD Uses

Battery

Post-Army Uses

1973: Lutz Tire for a garage and repair facility (ref 418). 1973: De Van Robins for a metal shop (ref 418). Currently owned by Benicia Industries.

Flooring

Concrete

Disposal Information

None Listed

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Date to vacate 7/13/62 (ref 713). SERVICE SHOPS: Battery Shop: acid tank (2) (3.5'x3'x4'), steam cleaner (ref 714). 30 June 1942 drawing shows a septic tank constructed of wood with an outflow trench across the road and under the railroad tracks to a point above high water (ref 619). Also identified are floor drains along with a hydraulic lift casing and a raceway approximately 26 feet long and 2 feet deep (ref 619). 1952; Brown and Caldwell identifies building operations including steam cleaning of battery cases (ref 405). The 1952 report also states that Building 101 is served by a 6-inch line that discharges at Point C directly into the Carquinez Strait. According to a disposition, dated 1 December 1953, the batteries were not identified as ordnance items because of deterioration. 6 May 1954, referenced 90 batteries (S/N 3B65L)(not an automotive type) found to be salvage. Does not list disposal location. According to a 1945 and 1954 Arsenal maps, Building 101 was named a "Battery Charging" Building (ref 650 and 646, respectively).

Records Research Report Comments

Demolished by Benicia Industries. The sewage line in front of Building 101 repeatedly clogged according to the records research report. The building had a septic tank with an outflow to a point above high water. Floor drains existed along with a hydraulic lift casing and a raceway (approximately 26 feet long and 2 feet deep).

ENVIRONMENTAL SUMMARY

Vessel Inventory

Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army

PA Summary

DoD Site #

101

Area: I

Vessel Inventory

	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 1	Septic Tank	US Army	0	Wooden	Sewage	1942	Unknown	Unknown	<input type="checkbox"/>

Uses: Septic Tank

Comments: a drawing dated 30 July 1942 (ref 619)(Appendix C1) identifies the location of a septic tank east of the building. The tank was to be constructed of wood with an outflow trench running across road and under railroad tracks, to a point above hi water.

Vessel # 2	AST	US Army	0	Unknown	Acid	Pre-1957	Unknown	Unknown	<input type="checkbox"/>
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Uses: Dip Tank

Comments: Pre-1957 based on Reference 714, Equipment list for new facility.

Vessel # 3	AST	US Army	0	Unknown	Acid	Pre-1957	Unknown	Unknown	<input type="checkbox"/>
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Uses: Dip Tank

Comments: Pre-1957 based on Reference 714, Equipment list for new facility.

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Building operations include steam cleaning of battery cases. Wastes flowed into floor drains.

RECOMMENDATIONS

Site requires investigation in regards to the former DoD activities with the steam cleaning of the battery cases. Downgradient water sampling is proposed to determine the possible impacts of metals dissolved in groundwater with sampling focused along the sewer line where the waste was carried.

PA Summary

DoD Site #

103

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-280-010	HISTORIC ARSENAL PARK LTD	920 JACKSON STREET
Year Bldg. Built	1943	Year Bldg. Removed
		Not applicable
Current Land Use	Mixed Use-Lower Arsenal	
	Site Area (SqFt)	403

OPERATIONAL HISTORY

DoD Use Type

Fuel Storage Facilities

DoD Uses

Service station/office building

Secondary DoD Uses

Fuel type

Post-Army Uses

None Identified. Building currently vacant.

Flooring

Concrete

Disposal Information

None Listed

Activities (inside/outside)

Inside/Outside

Records Research Report Addenda Data

Records from 1951 expressed the need to relocate the facility from the center of the existing shop area. A project estimate dated 18 August 1951, a request was made to remove existing building and relocate the station, pumps, island, and buried storage tanks (ref 16). No record of move being completed. Records indicate that service station was still used in 1953 following the reassignment of all motor pool activities to Area M.

Records Research Report Comments

This area had 1 gasoline tank, 1 kerosene tank and a fueling island (ref 167). Area became congested with tanks, vehicles and fork lifts. Area used primarily for maneuvering transport and combat vehicles entering the shops for servicing. UST was located in an area where salt water seepage occurred and it became corroded and pitted that a replacement would be necessary (ref 19).

ENVIRONMENTAL SUMMARY

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
1	UST	US Army	15000	Steel	Gasoline	Unknown	2002	Unknown	<input type="checkbox"/>
Uses: Fuel Storage Comments: UST removed in 2002 (BC Ref 1079).									
2	UST	US Army	3000	Unknown (likely steel)	Kerosene	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Fuel Storage Comments: Records Research is not clear if this tank is a UST or an AST or the location. Tank was not found during geophysical survey in May 1999. Tank is likely associated with former Building 161 (BC Ref 1077).									

PA Summary

DoD Site #

103

Area: I

Furthest Stage of Environmental Investigation

RIFS

COMMENTS

In May 1999, the USACE conducted a geophysical survey and excavated three test pits to locate a suspected 15,000-gal UST and a 3,000-gal kerosene UST and associated piping. The 15,000-gal UST and associated piping was uncovered, whose location corresponds to results from the RRR. A set of three pipes was traced from the UST to a fillport. The 3,000-gal kerosene UST and associated piping was not found during this investigation. It is likely that the kerosene tank was actually installed at the building next door, Building 161, and wrongly associated with Building 103 (ref 1077). The presence of hydrocarbons and lead in soil was confirmed. Groundwater was not encountered in May 1999. The report recommended further investigation to assess lateral extent of petroleum hydrocarbons in soil and to assess presence of petroleum hydrocarbons, VOCs, and PAHs in groundwater (ref 1078). Between March and April 2002, the USACE removed the UST, associated product piping, and collected soil samples beneath the former tank and product piping. Benzene, gasoline, diesel fuel, motor oil, lead, and JP-5 were detected in soil. Diesel fuel and motor oil concentrations were detected above the regulatory limits in soil (maximum concentration of 500 and 2,300 mg/kg, respectively). While there is no historical record indicating that JP-5 was ever used or stored at the Arsenal, another fuel, such as kerosene, falls within the same carbon range. Benzene and other fuel related compounds were reported in a groundwater sample collected from the excavation. Benzene was reported at 7 ug/L. Gasoline was also reported in the groundwater sample at 3,100 ug/L. This report also indicated that the extent of TPH in soil and groundwater has not been fully defined (ref 1079).

RECOMMENDATIONS

In response to the RWQCB request on the March 2002 investigation results, the site requires further investigation to determine the lateral extent of fuels in soil and groundwater for a release from the former UST.

PA Summary

DoD Site #

105

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)

Owner Name

Site Address

0080-150-450

GAUMANN TONI

986 ADAMS STREET

Year Bldg. Built

1943

Year Bldg. Removed

Not applicable

Site Area (SqFt)

4336

Current Land Use

Mixed Use-Lower Arsenal

OPERATIONAL HISTORY

DoD Use Type

Fire Station

DoD Uses

Fire station and fire training site

Secondary DoD Uses

Fire residues

Post-Army Uses

According to Ron Rice, former Arsenal Firefighter, the fire training site is now occupied by Simpkins Paint (Rice, 1997).

Flooring

Unknown

Disposal Information

None Listed

Activities (inside/outside)

Outside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

Fire training procedures included the use of petroleum products to ignite and maintain the fire. Carbon Tetrachloride Fire Extinguishers were used for training purposes (ref 139).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

The statement by Mr. Ron Roce could not be substantiated or verified. A site visit was conducted and no burned residue from the former fire training activities was observed. The present owner also has not seen any evidence of former fire training activities.

RECOMMENDATIONS

No further DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

108

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-130-020	BENICIA CITY				
Year Bldg. Built	1942	Year Bldg. Removed	Post 1962	Site Area (SqFt)	99
Current Land Use	Wharf				

OPERATIONAL HISTORY

DoD Use Type

Wharf Facilities

DoD Uses

Hoist building on wharf

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Concrete

Disposal Information

None Listed

Activities (inside/outside)

Unknown

Records Research Report Addenda Data

None Listed

Records Research Report Comments

Unable to identify uses or what was hoisted. A 1962 Building Zone List shows this building as being vacant (ref 713).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

The wharf and associated buildings do not impact the environment.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for the Wharf and associated buildings on it.

PA Summary

DoD Site #

114

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-230	SUBA MFG INC	921 BAYSHORE ROAD			
Year Bldg. Built	1944	Year Bldg. Removed	Post 1977	Site Area (SqFt)	176
Current Land Use	Industrial-Waterfront				

OPERATIONAL HISTORY

DoD Use Type

Carpenter Shops

DoD Uses

Oil Storage Shed

Secondary DoD Uses

Fuel type

Post-Army Uses

1968-1977: Manufacturing of wood and plastic products for Solano Machinery Company (also known as SUBA) (ref 587).

Flooring

Unknown

Disposal Information

None Listed

Activities (inside/outside)

Inside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

Facility beneficially used

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this building.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

116

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-230	SUBA MFG INC	921 BAYSHORE ROAD			
Year Bldg. Built	1943	Year Bldg. Removed	Not applicable	Site Area (SqFt)	25671
Current Land Use	Industrial-Waterfront				

OPERATIONAL HISTORY

DoD Use Type

Carpenter Shops

DoD Uses

Carpenter Shop

Secondary DoD Uses

None Listed

Post-Army Uses

1968-1977: leased to Solano Machinery Co. (also known as SUBA) for manufacture of wood and plastic products (ref 587).
Current use of the building is unknown.

Flooring

Unknown

Disposal Information

None Listed

Activities (inside/outside)

Inside

Records Research Report Addenda Data

An Expansion and Rehabilitation of Facilities document, dated 7 June 1951 showed the following projects being completed: pouring a concrete slab, installation of a catch basin and necessary drain lines, construction of a canvas shelter, installation of electrical services, and installation of a natural gas heater.

Records Research Report Comments

Shop responsible for all minor construction and repairs to buildings, wharfs, and other structures and for construction additions and deletions up to \$5,000. The Facility operated the lumber yard and manufactured and repaired special units including trucks, benches, trailers, ladders, etc. (ref 151). Records located at Solano County Department of Environmental Health identify hazardous materials presently being stored by SUBA in Building 116. The hazardous materials include 660 gallons of solvent as contact cement, 500 gallons of diesel fuel, and 500 gallons of liquefied petroleum. The MSDS Sheets shows the hazardous components of the solvent base cement to include magnesium oxide, neoprene, phenolic resins, ketones, toluene, and hexane (ref 484).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this building.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

117

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-230	SUBA MFG INC	921 BAYSHORE ROAD			
Year Bldg. Built	1951	Year Bldg. Removed	Not applicable	Site Area (SqFt)	4200
Current Land Use	Industrial-Waterfront				

OPERATIONAL HISTORY

DoD Use Type

Carpenter Shops

DoD Uses

Sticker Building/ Carpenter Shop

Secondary DoD Uses

None Listed

Post-Army Uses

1968: leased to Solano Machinery Co. for manufacture of wood and plastic products (ref 587).

Flooring

Unknown

Disposal Information

None Listed

Activities (inside/outside)

Unknown

Records Research Report Addenda Data

None Listed

Records Research Report Comments

The sticking of lumber consisted of placing sticks between newly-sawn boards to separate the lumber while it dried (ref 155).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this building.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

118(A)

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-140-450	BENICIA INDUSTRIES	981 BAYSHORE ROAD
Year Bldg. Built	Year Bldg. Removed	Site Area (SqFt)
Pre-1944	1951-1961	311
Current Land Use		
Industrial-Waterfront		

OPERATIONAL HISTORY

DoD Use Type

Fuel Storage Facilities

DoD Uses

Diesel tank, Fuel Oil Tank, Oil Storage Tank

Secondary DoD Uses

Fuel Type

Post-Army Uses

None Identified

Flooring

Asphalt (currently)

Disposal Information

None Listed

Activities (inside/outside)

Unknown

Records Research Report Addenda Data

Drawing 2194 dated 19 February 1944 identifies an existing locomotive fuel oil tank and a proposed grade 1-B AST for oil storage. A September 1945 map identifies Building 118A as a 10,000 gallon diesel tank. The other two mentioned tanks are located in the same vicinity as the 10,000 gallon diesel tank. A 1951 aerial photograph shows three ASTs. The three ASTs were not included in the 1961 inventory of buildings. It is presumed that the tanks were removed prior to 1961.

Records Research Report Comments

A 10,000 gallon diesel tank was located prior to Building 90 and was later moved to the area west of Building 91 (see Building 152 for the AST west of Building 91).

ENVIRONMENTAL SUMMARY

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
1	AST	US Army	0	Unknown	Fuel Oil	Pre 1941	Pre 1961	No	<input type="checkbox"/>
Uses: Fuel Storage									
Comments: Size Unknown									
2	AST	US Army	0	Unknown	Oil	Pre 1941	Pre 1961	No	<input type="checkbox"/>
Uses: Fuel Storage									
Comments: Size unknown									

PA Summary

DoD Site

118(A)

Area: I

Vessel Inventory

	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 3	AST	US Army	10000	Unknown	Diesel	Pre 1941	Pre 1961	No	<input type="checkbox"/>

Uses: Fuel Storage

Comments: Records Research Report was not clear if this tank was a AST or UST. A 1999 investigation was unable to find any USTs in the area of Building 118(A). Therefore, it is assumed that this tank was an AST.

Furthest Stage of Environmental Investigation

SI

COMMENTS

The Records Research Report was clear on which tanks were ASTs or possibly USTs. In June 2000, the USACE conducted a geophysical survey and excavated five test pits to locate a suspected 20,000-gal fuel storage tank that was believed to be in the survey area. No evidence of a UST or metals was found, but a thin lens of soil with a slight-moderate hydrocarbon odor was encountered in a few pits. Groundwater was reached at some pits and samples of groundwater and soil were taken. Diesel fuel, motor oil, and solvents were detected in soil and groundwater samples. The highest diesel fuel and motor oil concentrations in soil were detected at 510 mg/kg and 370 mg/kg, respectively. In groundwater, several solvents were reported: trichloroethene (TCE) (max conc. = 13 µg/L), cis-1,2-dichloroethene (max. conc. = 24 µg/L), trans-1,2-dichloroethene (max. conc. = 1.2 µg/L), tetrachloroethene (PCE) (max. conc. = 2.7 µg/L) and 1,1-dichloroethane (max. conc. = 1.2 µg/L). Trace amounts of DIPE (an oxygenate) were detected in the groundwater samples at a maximum concentration of 1 µg/L. The occurrence of any oxygenate indicates a post-Army release since the Army left in 1964 and oxygenates were used as an additive in fuels in the early 1980s. Recommendations were made to collect additional samples at former Building 118(A) to determine the extent of TPH and VOCs in soil and groundwater. This work should be conducted as part of a more widespread Area I investigation. (ref 1063).

RECOMMENDATIONS

Further investigation is recommended to determine the lateral extent of fuels in soil and groundwater for a possible release from the former ASTs and solvents in groundwater from an unknown upgradient source.

PA Summary

DoD Site #

118(B)

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)

Owner Name

Site Address

0080-140-230

SUBA MFG INC

921 BAYSHORE ROAD

Year Bldg. Built

1945

Year Bldg. Removed

1952

Site Area (SqFt)

1942

Current Land Use

Industrial-Waterfront

OPERATIONAL HISTORY

DoD Use Type

Carpenter Shops

DoD Uses

Incinerator-sawdust disposal system

Secondary DoD Uses

Explosives (?)

Post-Army Uses

None Listed

Flooring

Unknown

Disposal Information

Unknown location of burned material

Activities (inside/outside)

Unknown

Records Research Report Addenda Data

The sawdust disposal system was inspected on 10 October 1951 and it was discovered that the brick liner had been badly burnt causing the brick to separate and the heat had warped the exterior metal framework. On 17 February 1952, the screen collapsed and had to be replaced. A request was submitted on 4 June 1952 to replace existing incinerator with new structure to be fueled by natural gas. On 4 July 1952 there was a request for a new blower system. In 1952, the building was removed and replaced with Building 119.

Records Research Report Comments

Designed to dispose of the scrap and sawdust from the re-sawing of 15,000 to 20,000 board feet of lumber per eight hour shift.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

The incinerator was used to burn sawdust and there is no evidence that petroleum was used as a fuel source at this location. Therefore, there are no records indicating any potential environmental concerns related to DoD activities at this building.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

119

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-140-230	SUBA MFG INC	921 BAYSHORE ROAD
0080-140-250	BENICIA INDUSTRIES INC	

Year Bldg. Built 1952 Year Bldg. Removed 1970's Site Area (SqFt) 1942

Current Land Use Industrial-Waterfront

OPERATIONAL HISTORY

DoD Use Type

Carpenter Shops

DoD Uses

Incinerator/Sawdust Disposal System

Secondary DoD Uses

None identified

Post-Army Uses

Solano Machinery Co. (SUBA), manufacture of wood and plastic products (ref 587).

Flooring

Unknown

Disposal Information

None Listed

Activities (inside/outside)

Outside/Inside

Records Research Report Addenda Data

Demolished by Benicia Industries in the 1970s.

Records Research Report Comments

Powered by natural gas. Replaced Building 118B.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

The incinerator was used to burn sawdust and there is no evidence that petroleum was used as a fuel source at this location. Therefore, there are no records indicating any potential environmental concerns related to DoD activities at this building.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

120

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-280-040	HISTORIC ARSENAL PARK LTD	946 TYLER ROAD
Year Bldg. Built	Year Bldg. Removed	Site Area (SqFt)
1943	Not applicable	9817
Current Land Use Mixed Use-Lower Arsenal		

OPERATIONAL HISTORY

DoD Use Type

Industrial/Manufacturing Shops

DoD Uses

Quartermaster Storage/Shop/Electroplating

Secondary DoD Uses

Electroplating

Post-Army Uses

1967: leased to Flavor Fresh for warehousing and distribution (ref 587) (ref 418). 1977: Leased to Exxon for storage and handling sling pins of catalyst for 2 months (ref 701). Currently rented to artists, commercial space, and retail space, and owned by Gordon Potter.

Flooring

Concrete

Disposal Information

Drains and drain trenches lead thru neutralizer tanks then to storm drains. The control valve before the neutralizer tanks could bypass the neutralizer tanks and allow direct disposal into the storm drain.

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Fixtures and Supplies Storage 1962 vacate, Safety Equipment 1964 vacate (ref 713). 1943; constructed for storage. A document dated 22 December 1954 describes how parts were cleaned. First the parts were soaked and scrubbed in Oakite Aviation Cleaner (Lye). Following the Oakite bath, parts were put into a solution of laboratory "Calgonite" detergent and rinsed with germicidal antiseptic solution (sodium hypochlorite) (ref37). Drawing 5450 dated 12 March 1953, identifies the locations of proposed demineralizer and future seal, dye, rinse, anodizing, and cyanide etching tanks. Other tanks and rinses identified as already present in the building include, electro cleaner, alkali cleaner, degreaser, hydrochloric acid, sulfuric acid, electro sulfuric bright dip, chrome plate, hot rinse, nickel plate, copper plate, cadmium "Cgl.", still cadmium and cyanide dips. A degreaser pit leads to drain trench with storm drain and a neutralizer tank bgs. Drawing 5458 shows multiple tanks leading to drains.

Records Research Report Comments

Electroplating shop, had demineralizer tank (installed in 1951) that was overhauled and used to provide demineralized water for processing tanks in Building 56.

ENVIRONMENTAL SUMMARY

Vessel Inventory

Type	Original Owner	Size (Gal)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army

PA Summary

DoD Site #

120

Area: I

Vessel Inventory

	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 1	AST	US Army	0	Unknown	Water	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Demineralizer Comments: Drawing 5450 (ref 320) dated 12 March 1953, identifies the locations of proposed tanks.									
Vessel # 2	AST	US Army	0	Unknown	Seal	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Drawing 5450 (ref 320) dated 12 March 1953, identifies the locations of proposed tanks.									
Vessel # 3	AST	US Army	0	Unknown	Dye	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Drawing 5450 (ref 320) dated 12 March 1953, identifies the locations of proposed tanks.									
Vessel # 4	AST	US Army	0	Unknown	Water	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Rinse Tank Comments: Drawing 5450 (ref 320) dated 12 March 1953, identifies the locations of proposed tanks.									
Vessel # 5	AST	US Army	0	Unknown	Anodizing material	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Drawing 5450 (ref 320) dated 12 March 1953, identifies the locations of proposed tanks.									
Vessel # 6	AST	US Army	0	Unknown	Cyanide	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Drawing 5450 (ref 320) dated 12 March 1953, identifies the locations of proposed tanks.									
Vessel # 7	AST	US Army	0	Unknown	Electro Cleaner	Pre 1953	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Other tanks and rinses identified as already present in the building. Drawing 5450 (ref 320) dated 12 March 1953, identifies these tanks and rinses.									
Vessel # 8	AST	US Army	0	Unknown	Alkali Cleaner	Pre 1953	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Other tanks and rinses identified as already present in the building. Drawing 5450 (ref 320) dated 12 March 1953, identifies these tanks and rinses.									
Vessel # 9	Pit	US Army	0	Unknown	Solvents	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Degreaser Pit Comments: Other tanks and rinses identified as already present in the building. Drawing 5450 (ref 320) dated 12 March 1953, identifies these tanks and rinses.									
Vessel # 10	AST	US Army	0	Unknown	Hydrochloric acid	Pre 1953	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Other tanks and rinses identified as already present in the building. Drawing 5450 (ref 320) dated 12 March 1953, identifies these tanks and rinses.									
Vessel # 11	AST	US Army	0	Unknown	Sulfuric Acid	Pre 1953	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Other tanks and rinses identified as already present in the building. Drawing 5450 (ref 320) dated 12 March 1953, identifies these tanks and rinses.									

PA Summary

DoD Site #

120

Area: I

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 12	AST	US Army	0	Unknown	Sulfuric Acid	Pre 1953	Unknown	Unknown	<input type="checkbox"/>
<p>Uses: Dip Tank</p> <p>Comments: Other tanks and rinses identified as already present in the building. Drawing 5450 (ref 320) dated 12 March 1953, identifies these tanks and rinses.</p>									
Vessel # 13	AST	US Army	0	Unknown	Bright Dip	Pre 1953	Unknown	Unknown	<input type="checkbox"/>
<p>Uses: Plating Dip Tank</p> <p>Comments: Other tanks and rinses identified as already present in the building. Drawing 5450 (ref 320) dated 12 March 1953, identifies these tanks and rinses.</p>									
Vessel # 14	AST	US Army	0	Unknown	Copper	Pre 1953	Unknown	Unknown	<input type="checkbox"/>
<p>Uses: Plating Dip Tank</p> <p>Comments: Other tanks and rinses identified as already present in the building. Drawing 5450 (ref 320) dated 12 March 1953, identifies these tanks and rinses.</p>									
Vessel # 15	AST	US Army	0	Unknown	Chrome	Pre 1953	Unknown	Unknown	<input type="checkbox"/>
<p>Uses: Plating Dip Tank</p> <p>Comments: Other tanks and rinses identified as already present in the building. Drawing 5450 (ref 320) dated 12 March 1953, identifies these tanks and rinses.</p>									
Vessel # 16	AST	US Army	0	Unknown	Nickel	Pre 1953	Unknown	Unknown	<input type="checkbox"/>
<p>Uses: Dip Tank</p> <p>Comments: Other tanks and rinses identified as already present in the building. Drawing 5450 (ref 320) dated 12 March 1953, identifies these tanks and rinses.</p>									
Vessel # 17	AST	US Army	0	Unknown	Cadmium	Unknown	Unknown	Unknown	<input type="checkbox"/>
<p>Uses: Plating Dip Tank</p> <p>Comments: Other tanks and rinses identified as already present in the building. Drawing 5450 (ref 320) dated 12 March 1953, identifies these tanks and rinses.</p>									
Vessel # 19	UST	US Army	0	Concrete	Waste water	Pre 1953	Unknown	Unknown	<input type="checkbox"/>
<p>Uses: Neutralizer Tank</p> <p>Comments: Other tanks and rinses identified as already present in the building. Drawing 5450 (ref 320) dated 12 March 1953, identifies these tanks and rinses.</p>									
Vessel # 20	USTs	US Army	0	Unknown (likely steel)	#5 Fuel oil	Unknown	Pre 1943	No	<input type="checkbox"/>
<p>Uses: Fuel Storage</p> <p>Comments: A former Arsenal employee indicated that railroad cars would deliver #5 fuel oil to workshop USTs, which were located beneath B120. Geophysical survey results were inconclusive. The USTs were likely removed before construction of B120.</p>									

Furthest Stage of Environmental Investigation

SI

COMMENTS

Fuel oil USTs are suspected of being present beneath Building 120. In an interview with former Arsenal employee, he indicated that railroad cars would deliver #5 fuel oil to USTs for the workshops. Mr. Milburn was not sure of the exact UST locations. Railroad tracks and an unidentified rectangular object are shown on May 1932 and September 1940 drawings (ref 1000). The presence of USTs associated with Building 120 could not be confirmed by geophysical methods (ref 1207). Elevated concentrations of fuels in soil and groundwater. Additionally, solvents were reported in groundwater. The report recommended to conduct additional soil and groundwater sampling in the vicinity of reported detections of diesel fuel and motor oil in soil and solvents in groundwater near Building 120 (ref 1207). Drawing 5454 also shows a photographic laboratory in Building 120 (ref 1000). The electroplating tanks are no longer present in the building. The status of the neutralizer tank is unknown.

PA Summary

DoD Site #

120

Area: I

RECOMMENDATIONS

Investigation is recommended to determine the lateral extent of fuels in groundwater from a potential release from the former USTs beneath the building and solvents in groundwater for a potential release from degreasing activities in the former electroplating shop.

PA Summary

DoD Site #

142

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-070	BENICIA CITY				
Year Bldg. Built	1940s-1950	Year Bldg. Removed	1954-1962	Site Area (SqFt)	288
Current Land Use	Industrial-General				

OPERATIONAL HISTORY

DoD Use Type

Industrial/Manufacturing Shops

DoD Uses

Steam Cleaning Building

Secondary DoD Uses

Unknown

Post-Army Uses

None Identified

Flooring

Unknown

Disposal Information

Unknown

Activities (inside/outside)

Unknown

Records Research Report Addenda Data

Identified on site maps from 1945 and 1954 (ref 646 and 650). Building does not show up on a 1962 Building Zone List (ref 713). Built as a temporary structure during the 1940's expansion.

Records Research Report Comments

Removed by DoD. Available records do not indicate when the building was removed.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

The area of the former building is now the location of the aboveground Valero Pipeline.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

152

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-140-170	J R SCHNEIDER CO INC	849 JACKSON STREET
Year Bldg. Built	Year Bldg. Removed	Site Area (SqFt)
Pre-1953	1957-1961	405
Current Land Use		
Mixed Use-Lower Arsenal		

OPERATIONAL HISTORY

DoD Use Type

Fuel Storage Facilities

DoD Uses

Building is a 21,000-gallon fuel tank

Secondary DoD Uses

Fuel Type

Post-Army Uses

None Identified

Flooring

Concrete

Disposal Information

None Listed

Activities (inside/outside)

Outside

Records Research Report Addenda Data

A 1953 map indicates that Building 152 is a 21,000 gallon fuel tank. A building inventory dated 1 January 1957 lists the building as a 21,000 gallon fuel oil tank (ref 167).

Records Research Report Comments

The tank was not included in the 1961 inventory.

ENVIRONMENTAL SUMMARY

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
1	AST	US Army	21000	Unknown (likely steel)	Fuel Oil	Pre 1953	Unknown	No	<input type="checkbox"/>

Uses: Fuel Storage

Comments: Records Research is not clear if this tank is a UST or an AST. Further investigation in 1999 indicates that it was an AST that has since been removed.

Furthest Stage of Environmental Investigation

SI

COMMENTS

In June-August 2000, the USACE conducted a geophysical survey, excavated one hand auger boring, and collected one soil sample to locate a suspected 20,000-gal UST that was believed to be in the survey area. No evidence of a UST was detected. The RRR was inconclusive whether the suspected tank at Building 152 was a AST or a UST. The reported 21,000 gallon fuel

PA Summary

DoD Site #

152

Area: I

tank was likely a AST, which has been removed, and not a UST. A slight hydrocarbon odor was detected. One hand auger boring was advanced to refusal into competent sandstone bedrock at 4 feet bgs, where soil samples were collected. Concentrations of diesel fuel and motor oil were 320 mg/kg and 64 mg/kg, respectively at a depth of 4 feet bgs (ref 1063).

RECOMMENDATIONS

No further action under the FUDS program was recommended for Building 152 because TPH was below regulatory limits and the AST has been removed.

PA Summary

DoD Site #

154

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-280-020	UNICO INDUSTRIAL SERVICESCO	943 LINCOLN STREET
Year Bldg. Built	Year Bldg. Removed	Site Area (SqFt)
1944	Not applicable	2688
Current Land Use		
Mixed Use-Lower Arsenal		

OPERATIONAL HISTORY

DoD Use Type

Industrial/Manufacturing Shops

DoD Uses

Motor Test Shed/Paint Spray/ Fuel storage

Secondary DoD Uses

Fuel Storage Facilities

Post-Army Uses

1971: leased to Reccration Corporation of North America to fabricate hitch parts (ref 587). 1971-1975: Recreation Corp. of north America for fabrication, assembly and distribution of hitch parts. Currently vacant.

Flooring

Asphalt and Concrete

Disposal Information

None Listed

Activities (inside/outside)

Inside/Outside

Records Research Report Addenda Data

Drawing 2640 dated 14 November 1944 (ref 622) identifies Building 154 as the Engine Test Shed with and existing 10,000 gallon UST, existing gasoline pumps, and a new 7,000 gallon 80 octane gasoline UST. Both tanks served the test shed and the Dynamometer Building. Paint storage vacate 1962 (ref 713).

Records Research Report Comments

The white gasoline (unleaded gasoline) fuel storage facility held an old boiler house fuel tank. The boiler house fuel tank was to be steam cleaned to remove all oil residue and given a fresh coat of red lead and a top coat of hot tar. Both white gasoline and the red gasoline (leaded gasoline) systems included pipelines that ran east behind shop Buildings 55, 56, and 57 to Building 53. Pipelines connected to the existing red and white gasoline supplies and provided return lines, running south of the addition to Building 56. The 7,000 and 10,000 gallon fuel storage tanks were listed on the 1957 Building Inventory (ref 167). There was no reference of the white gasoline storage tank being inventoried.

ENVIRONMENTAL SUMMARY

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
1	UST	US Army	10000	Steel	Gasoline	1944	2002	No	<input type="checkbox"/>

Uses: Fuel Storage

Comments: Located in the red gasoline system. Located during a geophysical survey (BC Ref 1077). Removed in 2002.

PA Summary

DoD Site #

154

Area: I

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
2	UST	US Army	7000	Steel	80 Octane Gasoline	1944	2002	No	<input type="checkbox"/>

Uses: Fuel Storage

Comments: Located in the red gasoline system. Located during a geophysical survey (BC Ref 1077). Removed in 2002.

Furthest Stage of Environmental Investigation

RIFS

COMMENTS

In March 1999, the USACE conducted a geophysical survey and excavated seven test pits to evaluate the presence or absence of a 10,000-gallon gasoline UST, a 7,000-gallon gasoline UST, and a suspected 1,400-gallon "white gasoline" UST and associated piping. Two of three anomalous locations corresponded to the locations of a 10,000-gallon and 7,000-gallon UST. Piping was uncovered leading from the 7,000-gal UST to the 10,000-gallon UST. This piping branches off the 10,000-gal UST to the north and east. The eastern branch was probably connected to the Building 53 tank system, because the trace of the lines was not found in the test pits. The trace of the northern branch is unknown. The 1,400-gallon UST identified in the RRR was not located and may not have been installed (ref 1077). Also, it is unknown if piping found at western wall of Building 53 connected to another set of USTs beneath Building 56A (see Building 56A for further details) or once directly connected to the Building 154 tank system (ref 1077). The presence of hydrocarbons in soil and chlorinated VOCs and hydrocarbons in groundwater was confirmed. Lead concentrations in soil and groundwater do not exceed applicable regulatory concentrations (ref 1077). Between March and April 2002, the USACE removed the USTs, associated product piping, and collected soil and groundwater samples beneath the former tank and product piping. No RBSLs in soil samples were exceeded. M,p-xylenes, toluene, TPH-g and lead were detected above their respective RSBLs in groundwater. The extent of TPH in groundwater was not defined and the report recommended further investigation (ref 1079).

RECOMMENDATIONS

The extent of TPH in groundwater was not defined and the RWQCB agreed in further investigation for fuels and lead for a release from the former USTs (ref 1079).

PA Summary

DoD Site #

156

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-140-440	BENICIA INTERNTL ASSOC	711 JACKSON STREET
Year Bldg. Built	Year Bldg. Removed	Site Area (SqFt)
1945	Not applicable	5913
Current Land Use	Mixed Use-Lower Arsenal	

OPERATIONAL HISTORY

DoD Use Type

Industrial/Manufacturing Shops

DoD Uses

Locomotive House

Secondary DoD Uses

Fuel type

Post-Army Uses

1970: leased to Leon Bates to manufacture and distribute tile (ref 587). 1973: Solano steel for the miscellaneous fabrication of metal (ref 418). 1999: occupied by Pure Water Products at 750A Jackson Street. Currently an auto paint shop.

Flooring

Concrete

Disposal Information

Unknown

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Railroad Roundhouse 1964 vacate (ref 713).

Records Research Report Comments

Locomotive pits installed for servicing of locomotive. Constructed to house three diesel locomotives at the Arsenal. Records research was unable to identify drawings or any other specific DoD usage at Building 156.

ENVIRONMENTAL SUMMARY

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
1	Pit	US Army	0	Concrete	None	1945	Unknown	Unknown	<input type="checkbox"/>
Uses: Servicing Locomotives									
Comments: Currently filled to grade.									
2	Pit	US Army	0	Concrete	None	1945	Unknown	Unknown	<input type="checkbox"/>
Uses: Servicing Locomotives									
Comments: Currently filled to grade.									
3	Pit	US Army	0	Concrete	None	1945	Unknown	Unknown	<input type="checkbox"/>
Uses: Servicing Locomotives									
Comments: Currently filled to grade.									

PA Summary

DoD Site #

156

Area: I

Furthest Stage of Environmental Investigation

NONE

COMMENTS

The locomotive pits are filled in and concrete is exposed at grade. There are no drawings that indicate the construction of these pits. Building 90 references a drawing for a Proposed Locomotive Building dated 8 November 1940. The drawing shows the construction details of a concrete locomotive pit. This maybe indicative of the locomotive pits in Building 156.

RECOMMENDATIONS

A subsurface investigation is recommended to determine the presence or absence of fuels, oils, and solvents in groundwater downgradient of Building 156 for a potential release from cleaning or maintenance activites at the former locomotive building.

PA Summary

DoD Site #

157

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-450	BENICIA INDUSTRIES	981 BAYSHORE ROAD			
Year Bldg. Built	1944	Year Bldg. Removed	1970's	Site Area (SqFt)	5130
Current Land Use	Industrial-Waterfront				

OPERATIONAL HISTORY

DoD Use Type

Carpenter Shops

DoD Uses

Lumber Shed/Storage Building

Secondary DoD Uses

Storage

Post-Army Uses

Cal Auto Center for automobile servicing. 1977: leased to Chrysler Corporation for distribution of Dodge Colt automobiles (ref 702).

Flooring

Unknown

Disposal Information

Unknown

Activities (inside/outside)

Unknown

Records Research Report Addenda Data

According to Drawing 4497, dated 10 November 1948, a fuel line was associated with this boiler house (ref 617). The 1961 Facility Data Sheet indicated that a gas-fired boiler had been installed in 1944 (although the boiler house was not built until 1945).

Records Research Report Comments

Demolished by Benicia Industries in the 1970s. Building no longer present. The drain and foundation still exist.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

According to Drawing 4497 (ref 617), the former boiler house is Building 160 and not former Building 157. There are no records indicating any potential environmental concerns related to DoD activities at this building.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

161

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address	
0080-280-010	HISTORIC ARSENAL PARK LTD	920 JACKSON STREET	
Year Bldg. Built	Pre-1945	Year Bldg. Removed	1981-1998
Site Area (SqFt)	11200		
Current Land Use	Mixed Use-Lower Arsenal		

OPERATIONAL HISTORY

DoD Use Type

Industrial/Manufacturing Shops

DoD Uses

Motor Cleaning Building/Steam Cleaning/Paint Spray/Fuel Storage

Secondary DoD Uses

Fuel/Paint/Fuel Storage Facilities

Post-Army Uses

1967-1981: International Manufacturing Company for office space and a facility for the manufacture and storage of pumps, water systems, swimming pools, automobile wheels and accessories (ref 425, 587, 702).

Flooring

Concrete

Disposal Information

Drawing 4619, dated 6 October 1949 identifies service pit in the floor of paint booth and the sump connected to the storm drain along the eastern side of the building.

Activities (inside/outside)

Inside and Outside

Records Research Report Addenda Data

A drawing dated 31 May 1944 (ref 609) shows a kerosene storage tank (adjacent to the north side of the building), paint spray booth, degreaser, steam cleaner, storm drains, catch basins and underground gas lines (ref 609). Record Research identified a dip tank line, stripping tank, acid dip tank (2), water dip tank (2), neutralizer tank (ref 714). Drawing 4619, dated 6 October 1949 identifies service pit in the floor of paint booth. The pit measured 10x3.5 feet and had a 6-inch drain that ran directly to the storm drain. A 1952 survey by Brown and Caldwell indicated the building operations included steam cleaning of large components, dipping and painting (ref 405). Guide Sheet A dated 1957 stated the building had been constructed in a temporary-type manner on reclaimed tidelands without pilings. Drawing 6105, dated 28 August 1958 identifies 4 catch basins and 4 drain trenches proposed as part of the building rehabilitation. Drawing 6270, dated 22 Sept. 1959 identifies boiler house, spray paint booth, and proposed drying oven. 1962 vacate date (ref 713).

Records Research Report Comments

Demolished by Benicia Industries. Temporary construction of building resulted in uneven settling, creating excessive stresses in trussed members to the extent that numerous failures occurred. Floors sank so badly that the floor drains could not operate (ref 54). A 1952 report indicated that there were sewer system deficiencies in the area of Buildings 56, 57, 89, and 161 which frequently needed rodding to keep the sewage lines open. Drain trenches and foundation remain.

ENVIRONMENTAL SUMMARY

Vessel Inventory

Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army

PA Summary

DoD Site #

161

Area: I

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 1	UST	US Army	3000	Unknown (likely steel)	Kerosene	1945	Unknown	Unknown	<input type="checkbox"/>
Uses: Fuel Storage Comments: Unknown whether the tank is an AST or UST. Assumed size based on reports of a similar kerosene tank at adjacent Building 103 that was not found in 1999 but likely this tank at Building 161 (FA/BC Ref 1077). Pre-1944 based on Reference 609, 1944 Map									
Vessel # 2	Trench	US Army	0	Unknown	Wastes	1945 -1958	Unknown	Unknown	<input type="checkbox"/>
Uses: Drain Trench Comments: Constructed with a catch basin at each end. Still exists. Pre-1958 based on Reference 610, 1958 Drawing.									
Vessel # 3	Trench	US Army	0	Unknown	Wastes	1945 -1958	Unknown	Unknown	<input type="checkbox"/>
Uses: Drain Trench Comments: Constructed with a catch basin at each end. Still exists. Pre-1958 based on Reference 610, 1958 Drawing.									
Vessel # 4	Trench	US Army	0	Unknown	Wastes	1945 -1958	Unknown	Unknown	<input type="checkbox"/>
Uses: Drain Trench Comments: Constructed with a catch basin at each end. Still exists. Pre-1958 based on Reference 610, 1958 Drawing.									
Vessel # 5	Trench	US Army	0	Unknown	Wastes	1945 -1958	Unknown	Unknown	<input type="checkbox"/>
Uses: Drain Trench Comments: Constructed with a catch basin at each end. Still exists. Pre-1958 based on Reference 610, 1958 Drawing.									
Vessel # 6	Pit	US Army	0	Unknown	Wastes	Pre-1949	Present	Unknown	<input type="checkbox"/>
Uses: Service Pit Comments: Still exists. Pre-1949 based on Reference 612, 1949 Drawing.									
Vessel # 7	AST	US Army	0	Unknown	Solvents	Pre-1944	Unknown	Unknown	<input type="checkbox"/>
Uses: Degreasing Dip Tank Comments: Pre-1944 based on Reference 609, 1944 Drawing.									
Vessel # 8	Booth	US Army	0	Unknown	Paints	Pre-1944	Unknown	Unknown	<input type="checkbox"/>
Uses: Paint Booth Comments: Pre 1944 based on Reference 609, 1944 Drawing.									
Vessel # 9	AST	US Army	0	Unknown	Unknown	Pre-1957	Unknown	Unknown	<input type="checkbox"/>
Uses: Stripping Tank Comments: Pre-1957 based on Reference 714, Equipment List for New Facility. Tank is listed as being 3' deep.									
Vessel # 10	AST	US Army	0	Unknown	Water	Pre-1957	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Pre-1957 based on Reference 714, Equipment List for New Facility. Tank is listed as being 3' deep.									
Vessel # 11	AST	US Army	0	Unknown	Water	Pre-1957	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Pre-1957 based on Reference 714, Equipment List for New Facility. Tank is listed as being 3' deep.									
Vessel # 12	AST	US Army	0	Unknown	Acid	Pre-1957	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Pre-1957 based on Reference 714, Equipment List for New Facility. Tank is listed as being 3' deep.									
Vessel # 13	AST	US Army	0	Unknown	Acid	Pre-1957	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank Comments: Pre-1957 based on Reference 714, Equipment List for New Facility. Tank is listed as being 3' deep.									

PA Summary

DoD Site #

161

Area: I

Vessel Inventory

	Type	Original Owner	Size (Gal)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 14	AST	US Army	0	Unknown	Unknown	Pre-1957	Unknown	Unknown	<input type="checkbox"/>

Uses: Neutralizer Tank

Comments: Pre-1957 based on Reference 714, Equipment List for New Facility. Tank is listed as being 3' deep.

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Unknown what happened to the kerosene tank. Service pit below paint booth had a drain going directly to the storm drain. The site is being used beneficially. During a site visit by Brown and Caldwell in 2003, the area is being used for storage of heavy equipment. The concrete was heavily stained with oils, especially in the area of several catch basins. The service pit was partially filled with water.

RECOMMENDATIONS

A geophysical investigation is recommended to determine if the UST still exists. A subsurface investigation is recommended to determine the presence or absence of fuels, oils and solvents in groundwater downgradient from Building 161 for a potential release from the UST or cleaning activities in the former motor cleaning building.

PA Summary

DoD Site #

163

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-280	ALLEN DAVID W	991 JACKSON STREET			
Year Bldg. Built	1945	Year Bldg. Removed	Not applicable	Site Area (SqFt)	36200
Current Land Use	Mixed Use-Lower Arsenal				

OPERATIONAL HISTORY

DoD Use Type

Storehouses and Warehouses

DoD Uses

Warehouse and Storage

Secondary DoD Uses

Storage

Post-Army Uses

1970-1979: Storage of household goods for Kozy Moving and Storage (ref 587). Current use of building unknown.

Flooring

Unknown

Disposal Information

None Listed

Activities (inside/outside)

Inside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

18-inch firewall construction

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Unknown type of storehouse or what was stored but its 18 inch firewall construction is a sign of probable explosives. There are no records indicating any potential environmental concerns related to DoD activities at this building.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

165

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-140-440	BENICIA INTERNTL ASSOC	711 JACKSON STREET
Year Bldg. Built	Year Bldg. Removed	Site Area (SqFt)
1945	Not applicable	38400
Current Land Use		
Mixed Use-Lower Arsenal		

OPERATIONAL HISTORY

DoD Use Type

Industrial/Manufacturing Shops

DoD Uses

Reclamation Building/Transport Vehicle Shop

Secondary DoD Uses

Fuel type

Post-Army Uses

1966-1981: International Manufacturing company for office space and as a facility for the manufacture and storage of equipment for pumps, water systems, swimming pools, automobile wheels and accessories. Currently houses Benicia Mini Storage at 711 Jackson.

Flooring

Concrete

Disposal Information

Unknown

Activities (inside/outside)

Inside

Records Research Report Addenda Data

Chassis Section: 60 ton Hydraulic Press (ref 714). According to a 1961 Facility Data Sheet, two gas fired boilers were installed in Building 165 (ref 196). Drawing dated 14 March 1945 and 4 July 1945, identify mechanical works and utility plans: including caustic, rinse, pickle, oil bath, and degreaser processing tanks.

Records Research Report Comments

Previous activities included vehicle repair. There was a 1951 renovation to the boiler room. Housed a complete teardown and production line rebuild. Renovation of floor slabs because of heavy traffic damage and settling. Record located in Solano County Department of Environmental Management (SCDEM) (file no. 20003) identified the apparent removal of a UST in 1987 (ref 479). Although no backup data could confirm this removal, SCDEM conducted a site visit in 1996 and found patched asphalt. A soil/groundwater investigation ordered by SCDEM determined that the tank removed had contained gasoline.

ENVIRONMENTAL SUMMARY

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
1	AST	US Army	0	Unknown	Caustic material	Unknown	Unknown	Unknown	<input type="checkbox"/>

Uses: Dip Tank

Comments:

PA Summary

DoD Site #

165

Area: I

Vessel Inventory

	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
Vessel # 2	AST	US Army	0	Unknown	Water	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank									
Comments:									
Vessel # 3	AST	US Army	0	Unknown	Acid	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Pickle Dip Tank									
Comments:									
Vessel # 4	AST	US Army	0	Unknown	Oil	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Dip Tank									
Comments:									
Vessel # 5	AST	US Army	0	Unknown	Solvent	Unknown	Unknown	Unknown	<input type="checkbox"/>
Uses: Degreaser Tank									
Comments:									
Vessel # 6	UST	US Army	0	Unknown	Gasoline	Unknown	1987	Yes	<input checked="" type="checkbox"/>
Uses: Fuel Storage									
Comments: Tank removed in 1987									

Furtherest Stage of Environmental Investigation

RIFS

COMMENTS

It is unknown if the UST case is closed. Drawing dated 14 March 1945 and 4 July 1945 also shows the location of paint booth and sand blast area in the northeast corner of the building. The dip tanks, paint booth and sand blast have been removed. The current business has divided the building into hundreds of storage areas. Locating any former features associated with former DoD dip tanks is very difficult.

RECOMMENDATIONS

A subsurface investigation is recommended to determine the presence or absence of fuels, oils, and solvents in groundwater downgradient from Building 165 for a potential release from former cleaning activities.

PA Summary

DoD Site #

165A

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-460	BENICIA INTERNATL ASSOC				
Year Bldg. Built	1940's or 1950's	Year Bldg. Removed	1945-1953	Site Area (SqFt)	6190
Current Land Use	Industrial-Waterfront				

OPERATIONAL HISTORY

DoD Use Type

Industrial/Manufacturing Shops

DoD Uses

Steam Cleaning Building

Secondary DoD Uses

Fuel type

Post-Army Uses

Currently owned by Benicia Industries, Inc.

Flooring

Unknown

Disposal Information

Unknown

Activities (inside/outside)

Unknown

Records Research Report Addenda Data

Building T199 (Maintenance Building/Body and Radiator Shop) was constructed as a temporary facility in 1953 to replace Building 165A. Building 165A does not show up on a 1945 map (ref 650).

Records Research Report Comments

Removed by DoD. Most of the steam cleaning at the Arsenal took place at Building 165A and 161. The maximum capacity for this facility was 20 general purpose trucks per shift-60 in a full 3 three-shift day. As with Building 161, a weak alkali soap was injected into the steam during operations (ref 405).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

This building appeared to be used as a steam cleaning facility for vehicles. It is unknown the type of waste disposal that was used or waste management practices for the steam cleaning materials.

RECOMMENDATIONS

A subsurface investigation is recommended to determine the presence or absence of fuels, oils, and solvents in groundwater downgradient of this site for a potential release from former cleaning activities.

PA Summary

DoD Site #

166

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-450	BENICIA INDUSTRIES	981 BAYSHORE ROAD			
Year Bldg. Built	1945	Year Bldg. Removed	1970's	Site Area (SqFt)	11946
Current Land Use	Industrial-Waterfront				

OPERATIONAL HISTORY

DoD Use Type

Industrial/Manufacturing Shops

DoD Uses

Paint Shop

Secondary DoD Uses

Paint Spray/Shed

Post-Army Uses

1973: E.L. Morgan Company for the manufacture and distribution of building panels (ref 418). 1972-1977: C. Itoh & Company, Ltd. for import auto services and storage (ref 425, 587 and 702). Currently owned by Benicia Industries, Inc.

Flooring

Unknown

Disposal Information

Unknown

Activities (inside/outside)

References from 1950 state that the facility was used for painting indoors when foul weather prevented painting outdoors in the area M motor pool (Building 172) (ref 151).

Records Research Report Addenda Data

Drawing 4497, dated 10 November 1948, identifies locations for paint section, drying oven, boiler house (Building 160), grease rack, catch basins, sanitary sewer lines, and a "fuel gas" line to both the building and the boiler house south of the facility. Building had been constructed on reclaimed tidelands without pilings, and had settled 12 inches on one side (ref 54). Paint Shop listed with 1962 and 1964 vacate dates (ref 713).

Records Research Report Comments

Cleaning and processing facility. Demolished by Benicia Industries in the 1970s.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

The building was used a paint shop but also contained a grease rack. Therefore, in addition to the painting activities there appears to be maintenance activities performed at this building due to the presence of the grease rack.

RECOMMENDATIONS

A subsurface investigation is recommended to determine the presence or absence of fuels, oils, and solvents in groundwater downgradient from this site for a potential release from former cleaning activities in the building.

PA Summary

DoD Site #

167

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-450	BENICIA INDUSTRIES	981 BAYSHORE ROAD			
Year Bldg. Built	1945	Year Bldg. Removed	Not applicable	Site Area (SqFt)	8500
Current Land Use	Industrial-Waterfront				

OPERATIONAL HISTORY

DoD Use Type

Industrial/Manufacturing Shops

DoD Uses

Bar Stock Building/Storage/Vehicle Shop for original Motor Pool

Secondary DoD Uses

Fuel type

Post-Army Uses

Date unknown: Instrument repair of gauges for Instrument Service Company 1973: Benicia Lumber Mill for the storage and distribution of building materials (ref 418). 1973: HBS Shipping Group for the storage of motor vehicles (ref 418, 425). 1974: leased to Chrysler Motor Company for storage of vehicles (ref 587). 1977: leased to Chrysler Corporation for distribution of Dodge Colt automobiles (ref 702). Mazda rented 8500 square feet for auto processing stated in a 1980 appraisal document (ref 576). Unidentified current user. Current use is storage.

Flooring

Concrete

Disposal Information

Unknown

Activities (inside/outside)

Unknown

Records Research Report Addenda Data

None Listed

Records Research Report Comments

Adjacent to original motor pool along waterfront. Historical records identify this building as vehicle shops however did not indicate whether maintenance work was performed here.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Unknown if maintenance work occurred in this building.

RECOMMENDATIONS

Since these buildings are located within a known area of industrial activities that included maintenance, a subsurface investigation is recommended for a potential release from possible maintenance activities.

PA Summary

DoD Site #

168

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-450	BENICIA INDUSTRIES	981 BAYSHORE ROAD			
Year Bldg. Built	1945	Year Bldg. Removed	Not applicable	Site Area (SqFt)	8500
Current Land Use	Industrial-Waterfront				

OPERATIONAL HISTORY

DoD Use Type

Industrial/Manufacturing Shops

DoD Uses

Bar Stock Building/Storage/Vehicle Shop for original Motor Pool

Secondary DoD Uses

Fuel type

Post-Army Uses

1973: Benicia Lumber Mill for storage and distribution of building materials (ref 418). 1974: Chrysler Motor Company for automobile storage. Current use unidentifiable. 1977: leased to Chrysler Corporation for distribution of Dodge Colt automobiles (ref 702). Mazda rented 8500 square feet for auto processing stated in a 1980 appraisal document (ref 576). Current use is storage and a sign maker.

Flooring

Concrete

Disposal Information

Unknown

Activities (inside/outside)

Unknown

Records Research Report Addenda Data

None Listed

Records Research Report Comments

Historical records identify this building and Building 167 as vehicle shops. Storage and packaging facility adjacent to the original motor pool. Records did not indicate whether maintenance work was performed.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

Unknown if maintenance work occurred in this building.

RECOMMENDATIONS

Since these buildings are located within a known area of industrial activities that included maintenance, a subsurface investigation is recommended for a potential release from possible maintenance activities.

PA Summary

DoD Site #

169

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-130-020	BENICIA CITY	
0080-140-130	BENICIA CITY	

Year Bldg. Built: 1945 Year Bldg. Removed: Not applicable Site Area (SqFt): 7735

Current Land Use: Industrial-Waterfront

OPERATIONAL HISTORY

DoD Use Type

Wharf Facilities

DoD Uses

Rigger's building storage

Secondary DoD Uses

Storage

Post-Army Uses

1970: Leased to Pacific Motor Trucking for truck terminal and storage of trucks (ref 587). Leased out as Parts warehouse according to a 1980 appraisal document (ref 576).

Flooring

Unknown

Disposal Information

None Listed

Activities (inside/outside)

Inside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

Located at 1260 Tyler Street. Unable to identify uses.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this building.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

178

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-140-440	BENICIA INTERNTL ASSOC	711 JACKSON STREET
Year Bldg. Built	Year Bldg. Removed	Site Area (SqFt)
Pre-1954	1958-1962	299
Current Land Use		
Mixed Use-Lower Arsenal		

OPERATIONAL HISTORY

DoD Use Type

Fuel Storage Facilities

DoD Uses

A series of AST's on a bluff overlooking Buildings 90 and 156.

Secondary DoD Uses

Fuel Type

Post-Army Uses

None Identified

Flooring

Dirt

Disposal Information

None Listed

Activities (inside/outside)

Unknown

Records Research Report Addenda Data

A 1954 Arsenal map identified Building 178 as being diesel oil tanks. 1957 Inventory Report and 1961 Data Fact Sheet identifies Building 178 as a single 23,500 gallon diesel fuel tank.

Records Research Report Comments

No longer present. Building appears on a 1958 map (ref 643). Building does not appear on a 1962 Building Zone List (ref 713). Associated with the locomotive facilities (Building 90 and 156).

ENVIRONMENTAL SUMMARY

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
1	AST	US Army	1020	Steel	Fuel oil	1950s	Unknown	No	<input type="checkbox"/>
Uses: Fuel Storage Comments: Tank was removed, date unknown. Inventoried in January 1957 (FA/BC Ref 1000 - ref 167).									
2	AST	US Army	23500	Steel	Diesel	1950s	Unknown	No	<input type="checkbox"/>
Uses: Fuel Storage Comments: Tank was removed, date unknown. Inventoried in January 1957 (FA/BC Ref 1000 - ref 167).									
3	AST	US Army	4265	Steel	Lubricating Oil	1950s	Unknown	No	<input type="checkbox"/>
Uses: Oil Storage Comments: Tank was removed, date unknown. Inventoried in January 1957 (FA/BC Ref 1000 - ref 167).									

PA Summary

DoD Site #

178

Area: I

Vessel Inventory

Vessel #	Type	Original Owner	Size (Gal.)	Construction	Commodity Stored	Date Installed	Date Removed	Post-Army	Installed Post-Army
4	AST	US Army	4265	Steel	Lubricating Oil	1950s	Unknown	No	<input type="checkbox"/>

Uses: Oil Storage

Comments: Tank was removed, date unknown. Inventoried in January 1957 (FA/BC Ref 1000 - ref 167).

Furthest Stage of Environmental Investigation

SI

COMMENTS

The tanks referenced in the RRR are ASTs. A 1950s photo of the area shows 3 ASTs (similar size). In a building inventory, dated January 1, 1957 (ref 1000, ref 167), four tanks are listed. In June 2000, the USACE collected soil samples from three borings in the area of a former ASTs in locations where fuel lines were likely. No petroleum odors, staining, PID readings, or other field indications of fuel leakage from ASTs were observed. TPH as diesel and motor oil were observed in each soil sample. The highest concentrations of diesel fuel and motor oil were 140 mg/kg and 600 mg/kg, respectively. (ref 1063).

RECOMMENDATIONS

A site investigation report recommended no further action under the FUDS program for Building 178 (ref 1063).

PA Summary

DoD Site #

179

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-280-030	HISTORIC ARSENAL PARK LTD	900 JACKSON STREET			
Year Bldg. Built	1945	Year Bldg. Removed	Not applicable	Site Area (SqFt)	650
Current Land Use	Mixed Use-Lower Arsenal				

OPERATIONAL HISTORY

DoD Use Type

Utilities

DoD Uses

Compressor Building

Secondary DoD Uses

None identified

Post-Army Uses

None Identified

Flooring

Concrete

Disposal Information

None Listed

Activities (inside/outside)

Inside

Records Research Report Addenda Data

According to Jim Milburn, the compressor building supplied compressed air to the shop buildings in the area.

Records Research Report Comments

Unknown what was used to power the compressor.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this building.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

180

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-090	BENICIA CITY				
Year Bldg. Built	1945	Year Bldg. Removed	Post 1964	Site Area (SqFt)	77
Current Land Use	Public				

OPERATIONAL HISTORY

DoD Use Type

Utilities

DoD Uses

Transformer building

Secondary DoD Uses

Transformer

Post-Army Uses

None identified

Flooring

Unknown

Disposal Information

None Listed

Activities (inside/outside)

Unknown

Records Research Report Addenda Data

Designated as a transformer building in the 1961 Facility Data Sheet (ref 196). Building shows up on a 1962 Building Zone List with an approximate date to vacate of March 1964 (ref 713).

Records Research Report Comments

Building (removed and was located) south of the Clock Tower (Building 29).

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

Fillsite 1 (Formerly Landfill 1)

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-140	BENICIA INDUSTRIES INC	1052 TYLER STREET			
Year Bldg. Built	1900s	Year Bldg. Removed	1918-1920	Site Area (SqFt)	50545
Current Land Use	Industrial-Waterfront				

OPERATIONAL HISTORY

DoD Use Type

Fillsites and Quarries

DoD Uses

Dump

Secondary DoD Uses

Post-Army Uses

None Identified. Benicia Industries is proposing the construction of a new rice warehouse. Currently used for temporary parking of imported automobiles arriving by sea.

Flooring

Soil; Asphalt (currently)

Disposal Information

Burning. Other disposal practices unknown.

Activities (inside/outside)

Outside

Records Research Report Addenda Data

(Formerly listed in the Records Research Report as Landfill 1). A document dated 28 September 1907 from the Benicia Barracks Hospital stated, the appropriate measures to be taken to prevent the plague at the Arsenal were to "scrupulously" police any place where rats feed, including shops, kitchens, and stables. All food was destroyed or put away properly. All garbage at the dump was to be burned. It is suspected that the garbage was burned at this fillsite. The fillsite was first identified on a 1918 map of the Arsenal and labeled "dump". This area is also a former swamp or tideland. The Army filled the area in and Building 71 was constructed over the filled area in 1920.

Records Research Report Comments

This fillsite is located within the outline of former Building 71 with the southwest corner of the former building being the westerly starting point of the fillsite which runs approximately three fourths of the length of former Building 71. Building 71 was built in the 1920s and demolished in the 1980s by Benicia Industries. This area was a former swamp or tidelands, which had been filled by the Army. This (fillsite) was in operation at about the turn of the century. Research indicates that burning took place at this facility.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

SI

COMMENTS

In 2000, USACE conducted a geophysical survey in the area to determine if the dump existed. Nine test pits were dug in 2001 at anomalous areas indicated by the geophysical survey. No refuse was found. One of the concrete pilings for former Building

PA Summary

DoD Site #

Fillsite 1 (Formerly Landfill 1)

Area: I

71 was found. Soil and groundwater samples were collected from the test pits. Fuels were reported in soil. Maximum concentration = 2,900 mg/kg motor oil. Methylene chloride, MTBE, cis-1,2-DCE (18 ug/L), TCE (21 ug/L), diesel fuel (56 ug/L) and motor oil (450 ug/L) were reported in groundwater. The fuels in soil and groundwater may be attributed to the burn dump.

RECOMMENDATIONS

Site requires further investigation to determine the lateral extent of fuels and solvents in groundwater from an unknown source area.

PA Summary

DoD Site #

Fillsite 2 (Formerly Landfill 2)

Area: 1

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-100	BENICIA INDUSTRIES INC	1200 ADAMS STREET			
Year Bldg. Built	1940s	Year Bldg. Removed	Not applicable	Site Area (SqFt)	97261
Current Land Use	Industrial-Waterfront				

OPERATIONAL HISTORY

DoD Use Type

Fillsites and Quarries

DoD Uses

Fillsite

Secondary DoD Uses

Post-Army Uses

None Identified

Flooring

Soil

Disposal Information

None Listed

Activities (inside/outside)

Outside

Records Research Report Addenda Data

(Formerly known as Landfill 2 in the Records Research Report). Identified by USACE in the 1997 report as Area 9 (ref 544). Benicia Industries contracted HLA to perform a field investigation of the former fillsites area in 1988. The 1988 report form HLA, a preliminary hazardous waste assessment performed by BCLA in 1987 required further investigation. HLA analyzed samples for total soluble lead only. Based on results it was determined that remediation was warranted, though lead concentrations above 1,000 mg/kg were localized and not considered characteristic of the fill. Total volume of fill was estimated at 270 cubic yards (ref 545).

Records Research Report Comments

South of Building 29, has been graded since Arsenal deactivation in 1964. The site was identified by former Arsenal employee Mr. James Milburn and was in use in the 1940s. Several former Arsenal employees stated that all industrial wastes as well as all other types of waste were disposed at this fillsite. According to Jim Milburn, Fillsite 2 has been graded and leveled by Benicia Industries (Milburn 1997). Records Research was unable to identify when the grading had taken place or whether complete fill removal was performed.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

SI

COMMENTS

In 2000, USACE conducted a geophysical survey in the area to determine if the presence of refuse. The survey extended south of Adams Street to an existing escarpment. Nineteen trenches were dug in 2001 at anomalous areas indicated by the geophysical survey. Construction debris was found in a few of the trenches. Otherwise a landfill was not found. South of Adams Street

PA Summary

DoD Site #

Fillsite 2 (Formerly Landfill 2)

Area: I

refuse was found in a localized area. Ash, slag and cosmoline was found in this area. During the excavation, a sandstone wall was found that appears to be a former retaining wall for a former road. The refuse was found on the south side of the wall and may have been dumped. The lateral extent of the refuse was determined. Soil and groundwater samples were collected from the test pits. Fuels were reported in soil. Maximum soil concentration = 23 mg/kg motor oil. Methylene chloride and motor oil were reported in groundwater. Maximum concentrations 77 ug/L motor oil.

RECOMMENDATIONS

USACE has not had control over the fillsite. USACE tried to sample groundwater downgradient of the fillsite, but there was no groundwater. Therefore, there is no risk to human health or the environment and no DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

NIKE Missile Site 3

Area: I

 NDAI FAR IRR Potential OE**SITE DESCRIPTION**

Parcel # (APN)	Owner Name	Site Address			
0080-140-430	BENICIA INDUSTRIES INC				
Year Bldg. Built	Never constructed	Year Bldg. Removed	Not applicable	Site Area (SqFt)	
Current Land Use	Industrial-Waterfront				

OPERATIONAL HISTORY**DoD Use Type**

Industrial/Manufacturing Shops

DoD Uses

Defense

Secondary DoD Uses

None Identified

Post-Army Uses

None Identified

Flooring

Unknown

Disposal Information

47,338 cubic yards of earth was removed by Parish Bros., Inc. and moved to Benicia Mobile Home Park.

Activities (inside/outside)

Outside

Records Research Report Addenda Data

None Listed

Records Research Report Comments

According to Leroy Bailey, there was a NIKE Missile launch pad installed on Bottle Hill in the late 1940's. Leroy Bailey could not recall the exact location or the date. There were no records located that could identify the missile site. Documentation from the City of Benicia, dated 11 September 1968 stated that soil was excavated from Bottle Hill and moved off site to the Benicia Mobile Home Park site, where it was used as fill. A total of 47,338 cubic yards of earth was removed by Parish Brothers, Inc. (ref 415).

ENVIRONMENTAL SUMMARY**Furthest Stage of Environmental Investigation**

NONE

COMMENTS

The current landowner, Benicia Industries, conducted additional research into the validity of Mr. Bailey's statement. According to Benicia Industries, the statement could not be verified and there was no NIKE Missile launch pad ever located on Bottle Hill.

RECOMMENDATIONS

Since the site never existed, no DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

OS1

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-270	BENICIA INDUSTRIES INC	700 BAYSHORE ROAD			
Year Bldg. Built	1940s	Year Bldg. Removed	Not applicable	Site Area (SqFt)	507058
Current Land Use	Industrial-Waterfront				

OPERATIONAL HISTORY

DoD Use Type

Open Storage Areas

DoD Uses

Lumber Storage and Receiving Shipments. Storage of Ordnance and General Supplies.

Secondary DoD Uses

Storage

Post-Army Uses

Vehicle storage, lumber storage, logging operation for IWAI, Inc., and mooring space for West Coast Dredging and Benicia Lumber and Mill. Records Research indicates that all OS locations in Area I have been used to store new vehicles for Toyota Motor Company, Volkswagen, Chrysler Motors, Nissan Motor Corp., C. Itoh & Co., Subaru of Northern California, Mazda Motors of America, and American Isuzu Motors, Inc. (ref 539).

Flooring

Asphalt (currently)

Disposal Information

None Listed

Activities (inside/outside)

Outside

Records Research Report Addenda Data

Used for salvage material storage with a vacate date of March 1964 (ref 713). A 1943 drawing describing a sewer line identifies OS1 as the "Hard Standing" between Project "S" & Yuba Manufacturing Co. (ref 394).

Records Research Report Comments

Beneficial use. Built on reclaimed tidelands. The fill was imported from various building sites and also dredged from the Carquinez Strait.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

OS2

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address			
0080-140-130	BENICIA CITY				
Year Bldg. Built	1940s	Year Bldg. Removed	Not applicable	Site Area (SqFt)	319707
Current Land Use	Industrial-Waterfront				

OPERATIONAL HISTORY

DoD Use Type

Open Storage Areas

DoD Uses

Lumber storage and storage of ordnance and general supplies

Secondary DoD Uses

Storage

Post-Army Uses

Lumber storage, vehicle storage, logging operation for IWAI, Inc. Records Research indicates that all OS locations in Area I have been used to store new vehicles for Toyota Motor Company, Volkswagen, Chrysler Motors, Nissan Motor Corp., C. Itoh & Co., Subaru of Northern California, Mazda Motors of America, and American Isuzu Motors, Inc. (ref 539).

Flooring

Asphalt (currently)

Disposal Information

None Listed

Activities (inside/outside)

Outside

Records Research Report Addenda Data

Drawing 1891, dated 29 October 1943, shows construction associated at OS2 by extending drainage pipes and moving tidal gates for the proposed facility, creating six catch basins along the waters edge and constructing a 10-foot levee at the waters edge to fortify the storage facility against the highest recorded tide elevation of 9.5 feet (ref 397).

Records Research Report Comments

Beneficial use. Developed on reclaimed tidelands with fill imported from various building sites and dredged from the Carquinez Strait.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.

PA Summary

DoD Site #

OS3

Area: I

NDAI FAR IRR Potential OE

SITE DESCRIPTION

Parcel # (APN)	Owner Name	Site Address
0080-140-250	BENICIA INDUSTRIES INC	
0080-140-260	SOUTHERN PACIFIC	

Year Bldg. Built: 1940s Year Bldg. Removed: Not applicable Site Area (SqFt): 282386

Current Land Use: Industrial-Waterfront

OPERATIONAL HISTORY

DoD Use Type

Open Storage Areas

DoD Uses

Open storage of ordnance and general supplies. Potentially used for lumber storage.

Secondary DoD Uses

Fuel type

Post-Army Uses

Automobile Storage. Records Research indicates that all OS locations in Area I have been used to store new vehicles for Toyota Motor Company, Volkswagen, Chrysler Motors, Nissan Motor Corp., C. Itoh & Co., Subaru of Northern California, Mazda Motors of America, and American Isuzu Motors, Inc. (ref 539).

Flooring

Asphalt (currently)

Disposal Information

None Listed

Activities (inside/outside)

Outside

Records Research Report Addenda Data

According to Leroy Bailey, former Arsenal Employee, the Army attempted to stabilize OS3 by spreading dunnage (scrap wood and packing materials) over the area. This was performed sometime between 1949 and 1952.

Records Research Report Comments

Beneficial use. Built on reclaimed tidelands.

ENVIRONMENTAL SUMMARY

Furthest Stage of Environmental Investigation

NONE

COMMENTS

There are no records indicating any potential environmental concerns related to DoD activities at this site.

RECOMMENDATIONS

No DoD action is indicated (NDAI) for this site.