**DECISION DOCUMENT**
**BUILDING 97 OLD DOCK AREA, SWMU J-21**
**Hawthorne Army Depot**
**Hawthorne, Nevada**
**November 1999**

## 1. PURPOSE of DECISION DOCUMENT

### 1.1 Introduction

This decision document describes the rationale for the remedial action at, and closure of, Solid Waste Management Unit (SWMU) J-21, Building 97 Old Dock Area, at the Hawthorne Army Depot (HWAD), Hawthorne, Nevada. This decision document was developed by the U.S. Army Corps of Engineers Sacramento District (USACE), HWAD, and Day & Zimmermann Hawthorne Corporation, with support from the Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP).

### 1.2 Site Description and Background

SWMU J-21 is located south of a diked drainage ditch running south of and parallel to West Road, south of the Group 50 magazine.

The site is described as a former loading dock, identified in an aerial photograph (RAI, 1992). The trench was visible in a 1954 high altitude aerial photograph. Photo interpretation of a 1980 aerial photograph (EMSL, 1981) indicated a possible building foundation, a pit, and a trench. The trench appeared to be about 600 feet long and was oriented approximately east-west. Several dirt roads and an embankment were located adjacent to the site. The site appeared to be bounded on the northwest by the West Road drainage canal and on the southeast by a railroad track. It was not known if any waste disposal operations occurred at the site.

Tetra Tech reviewed all previous work done for the Group B SWMUs and compiled an annotated bibliography for past work (Tetra Tech, 1993).

Tetra Tech performed an inspection of the site in November 1993. The trench is about six to eight feet deep, about 50 feet wide, and sloped up to grade at each end. A paved, wood-shored ramp rises to a concrete "dock" near the center of the south shoulder of the trench. The dock foundation extends into the trench, suggesting that the trench was excavated to allow vehicles to be loaded or unloaded at the dock. In the south end of the trench, two piles of transite sheeting were observed. The sheeting was similar to the material used to roof the buildings in the 50 Group. The interior of the trench was heavily vegetated with brush. No evidence of hazardous waste disposal was observed.

About 100 feet southwest of the former loading dock was a round, unlined pit, about 30 feet in diameter. Nearby to the south, and oriented approximately in line with the loading dock at the trench, a thick concrete slab with a narrow, 6 feet deep pit resembling a vehicle maintenance "grease pit" was observed. The relationship, if any,

between the unlined pit, the "grease pit," and the loading dock was not clear.

The depth to ground water at the site was estimated to be about 350 feet. The elevation of the site is about 4,400 feet above mean sea level (msl), and the water table was at an approximate elevation of 4,070 feet above msl in 1974 (Van Denburgh and Rush 1975). Tetra Tech conducted a basewide ground water level survey in March, 1994. Based on this survey, ground water at SWMU J-21 was estimated at an elevation of 4,075 feet msl (325 ft bgs).

### 1.3 Chemicals of Concern

The potential chemicals of concern are listed in Table 1.

**TABLE 1 - SUMMARY OF CHEMICALS OF CONCERN**

| Chemical of Concern | Rationale Behind Designation | Reference |
|---|---|---|
| Petroleum Hydrocarbons | Possible diesel spillage | USACE 1993 |
| Metals | Possible disposal of metal debris | USACE 1993 |
| Asbestos | Possible disposal of asbestos | USACE 1993 |
| Semi-Volatile Organic Compounds | Possible use in "grease pit" | Tetra Tech, 1993 |

## 2. SUMMARY of SITE RISK

Semivolatile organic compounds were non-detect. Benzene, toluene, ethylbenzene, and xylene screening levels were less than 50 mg/kg and total petroleum hydrocarbons as diesel were detected at 1.4 and 2.4 mg/kg. All detected chemical concentrations are below the proposed closure goals.

## 3. SUMMARY of REMEDIAL INVESTIGATIONS and REMEDIAL ACTIONS

### 3.1 Remedial Investigations

#### 3.1.1 Objectives

The objective of the investigation at SWMU J-21 was:

- To determine the presence of petroleum hydrocarbons, metals and asbestos in the near surface soils at the site.

This objective was met.

### 3.1.2 Planned and Actual Investigation

Planned and actual field investigation activities are described in Table 2. Figure J-21-2 shows the location of the actual field investigation activities at SWMU J-21. A permanent monument was installed and surveyed, and SWMU boundaries delineated, at the locations shown on these figures. The appendices of this report include HWAD proposed closure goals for soils, lab results and detection limits, survey results, and photographs. All activities were conducted based on the Work Plan (Tetra Tech, 1994a), Site Safety and Health Plan (Tetra Tech, 1994b) and the Chemical Data Acquisition Plan (Tetra Tech, 1994c).

**TABLE 2 - SUMMARY OF PLANNED AND ACTUAL FIELD INVESTIGATIONS**

| Planned Investigation | Actual Investigation | Comments |
|---|---|---|
| **Near Surface Sampling** - 8 sample locations | **Near Surface Sampling** - 8 sample locations | none |
| **Surveying** - GPS[a] at sample locations | **Surveying** - GPS at sample locations | none |

[a]GPS = Global positioning system

Soil samples collected and analyses performed include the following:

| Sample Locations | Depth (ft) | Metals Analyses | BTEX Analyses | TPH-D Analyses | Semi-VOC Analyses |
|---|---|---|---|---|---|
| **Near Surface** | | | | | |
| SS01 - SS08 (8 locations) | 0.5 | Y | Y | Y | Y |

### 3.1.3 Results

Tables 3, 4, and 5 list soil analytical results for metals; benzene, toluene, ethylbenzene, and xylene (BTEX); total petroleum hydrocarbons (TPH-d); and semivolatile organic compounds (SVOCs), respectively. The associated background levels and the proposed closure goals for metals are also shown in Table 3.

**TABLE 3 - SUMMARY OF METALS ANALYTICAL RESULTS**

| Sample Number | Sampled Date | Sample Depth (ft) | Metals (mg/kg) EPA Method 6010 (Method 7471 for Hg) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | As | Ba | Cd | Cr | Pb | Hg | Se | Ag |
| **Surface Soil Sampling** | | | | | | | | | | |
| J21-SS01-1-S | 13-Jul-94 | 0.25 - 0.50 | ND[a] | 160 | ND | 4.5 | 11 | ND | ND | ND |
| J21-SS02-1-S | 13-Jul-94 | 0.25 - 0.50 | ND | 130 | ND | 3.4 | 8.8 | ND | ND | ND |
| J21-SS03-1-S | 13-Jul-94 | 0.25 - 0.50 | ND | 240 | 0.34 | 5.6 | 19 | 0.082 | ND | ND |
| J21-SS04-1-S | 13-Jul-94 | 0.25 - 0.50 | ND | 86 | ND | 3.0 | 5.0 | ND | ND | ND |
| J21-SS05-1-S | 13-Jul-94 | 0.25 - 0.50 | ND | 320 | 0.48 | 8.7 | 27 | 0.093 | ND | ND |
| J21-SS06-1-S | 13-Jul-94 | 0.25 - 0.50 | ND | 240 | 0.32 | 6.4 | 24 | 0.061 | ND | ND |
| J21-SS07-1-S | 13-Jul-94 | 0.25 - 0.50 | ND | 130 | 0.27 | 3.9 | 8.1 | ND | ND | ND |
| J21-SS08-1-S | 13-Jul-94 | 0.25 - 0.50 | ND | 180 | 0.43 | 5.0 | **690** | ND | ND | ND |
| **Associated Background Samples** | **Soil Series** | **Mappable Unit** | **As** | **Ba** | **Cd** | **Cr** | **Pb** | **Hg** | **Se** | **Ag** |
| B1 | Inmo | 121 | ND | 200 | 1.4 | 6.1 | 12 | ND | ND | ND |
| B2 | Inmo | 121 | ND | 86 | 0.57 | 4.9 | 5.2 | ND | ND | ND |
| **Proposed Closure Goals** | | | 30 | 5600 | 40 | 80,000 | 1000 | 24 | 400 | 400 |

[a]ND = Below laboratory method detection limit for all analytes

**TABLE 4 - SUMMARY OF BTEX, VOCs AND TPH-D ANALYTICAL RESULTS**

| Sample Number | Sampled Date | Sample Depth (ft) | BTEX (mg/kg) Immunoassay Test | TPH-Diesel (mg/kg) EPA Method 8015-M |
|---|---|---|---|---|
| **Near Surface Sampling** | | | | |
| J21-SS01-1-S | 13-Jul-94 | 0.25 - 0.50 | >2 & <10 | ND[a] |
| J21-SS02-1-S | 13-Jul-94 | 0.25 - 0.50 | >2 & <10 | ND |
| J21-SS03-1-S | 13-Jul-94 | 0.25 - 0.50 | >2 & <10 | ND |
| J21-SS04-1-S | 13-Jul-94 | 0.25 - 0.50 | >2 & <10 | ND |
| J21-SS05-1-S | 13-Jul-94 | 0.25 - 0.50 | >10 & <50 | **2.4** |
| J21-SS06-1-S | 13-Jul-94 | 0.25 - 0.50 | >2 & <10 | ND |
| J21-SS07-1-S | 13-Jul-94 | 0.25 - 0.50 | <2 | ND |
| J21-SS08-1-S | 13-Jul-94 | 0.25 - 0.50 | >2 & <10 | **1.4** |

[a]ND = Below laboratory method detection limit for all analytes

**TABLE 5 - SUMMARY OF SVOCs ANALYTICAL RESULTS**

| Sample Number | Sampled Date | Sample Depth (ft) | SVOCs (ug/kg) EPA Method 8270 |
|---|---|---|---|
| **Near Surface Sampling** | | | |
| J21-SS01-1-S | 13-Jul-94 | 0.25 - 0.50 | ND[a] |
| J21-SS02-1-S | 13-Jul-94 | 0.25 - 0.50 | ND |
| J21-SS03-1-S | 13-Jul-94 | 0.25 - 0.50 | ND |
| J21-SS04-1-S | 13-Jul-94 | 0.25 - 0.50 | ND |
| J21-SS05-1-S | 13-Jul-94 | 0.25 - 0.50 | ND |
| J21-SS06-1-S | 13-Jul-94 | 0.25 - 0.50 | ND |
| J21-SS07-1-S | 13-Jul-94 | 0.25 - 0.50 | ND |
| J21-SS08-1-S | 13-Jul-94 | 0.25 - 0.50 | ND |

[a]ND = Below laboratory method detection limit for all analytes

### 3.2 Remedial Actions

#### 3.2.1 Summary of Remedial Alternatives

All surface items including drums, containers, metal scrap or munition components that could be suspect of leaching arsenic, barium, beryllium, chromium, lead, mercury, explosives, asbestos, and petroleum will be removed from the SWMU. Items that test negative for the listed parameters are to be buried in the HWAD landfill provided they meet the landfill requirements for burial. Items where tests exceed RCRA requirements will be disposed of in accordance with existing environmental regulations. Soil sampling will be performed for suspect contaminates after removal of surface items. Remove existing build-up areas (man-made structures).

#### 3.2.2 Summary of Remedial Actions

The surface debris was removed, including the transite material, and was disposed of properly. The soil buildup north of the trench was sloped to contour with the surrounding terrain. The wooden loading dock on the south side of the trench and the concrete foundation were not removed. Two soil samples were collected adjacent to the concrete foundation suspected of being a "grease pit", and analyzed for the BTEX compounds. The samples were non-detect for all of these compounds. Photographs of the site before and after the implementation of this alternative are attached at Appendix D.

## 4. CONCLUSIONS and RECOMMENDATIONS

The HWAD proposed closure goals for all analytes are listed in Appendix A. These closure goals were used in evaluating the detected chemicals. Table 6 lists all samples with detected levels of contaminants.

**TABLE 6 - SUMMARY OF DETECTED CHEMICALS OF CONCERN**

| Sample Number | Sampled Date | Sample Depth (ft) | BTEX (mg/kg) Immunoassay Test | TPH-Diesel (mg/kg) EPA Method 8015M |
|---|---|---|---|---|
| J21-SS05-1-S | 13-Jul-94 | 0.25 - 0.50 | <10, <50 | 2.4 |
| J21-SS08-1-S | 13-Jul-94 | 0.25 - 0.50 | <2, <10 | 1.4 |

SVOCs were non-detect. BTEX screening levels were less than 50 mg/kg and TPH-d was detected at 1.4 and 2.4 mg/kg. All detected chemical concentrations are below the proposed closure goals.

It is recommended that no further investigation be performed at this SWMU and that the site be closed with regard to the chemicals of concern and without land use restrictions.

## 5. PUBLIC/COMMUNITY INVOLVEMENT

It is U.S. Department of Defense and Army policy to involve the local community throughout the investigation process at an installation. To initiate this involvement, HWAD has established a repository in the local public library, which includes final copies of all past studies and documents regarding environmental issues at the facility. This repository will be maintained and updated with all future final documents as they are issued to HWAD.

HWAD has solicited community participation in establishment of the restoration advisory board (RAB). However, because of insufficient public response, HWAD has not formed a RAB. HWAD will continue to solicit community involvement.

## 6. DECLARATION

The selected remedy is protective of human health and the environment. It has been shown that a complete exposure pathway to human health and the environment does not exist, and there is no potential for such an exposure pathway to be completed in the future.

**U.S. ARMY**

4 Nov 99
Date

James A. Piner
Lieutenant Colonel, U.S. Army
Commanding

**STATE OF NEVADA**

22 Nov 99
Date

Paul Liebendorfer
Chief, Bureau of Federal Facilities

**REFERENCES**

EMSL. 1981. Aerial Reconnaissance of Hazardous Waste Sites, Weed Heights and Hawthorne, Nevada. TS-AMD-8106. (Environmental Monitoring Systems Laboratory, Las Vegas, NV). Prepared for U.S. EPA Region 9 by Lockheed Engineering and Management Services Co., Inc., Las Vegas, NV.

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Tetra Tech. 1993. Draft Technical Memorandum for Group B SWMUs, Hawthorne Army Ammunition Plant. November 22, 1993.

Tetra Tech. 1994a. Remedial Investigation, Group B SWMUs, Final Work Plan, Volume 1, Investigation Description, and Volume 2, Sampling and Analysis Plans, Hawthorne Army Ammunition Plant. May, 1994.

Tetra Tech. 1994b. Site Safety and Health Plan, Hawthorne Army Ammunition Plant. June, 1994.

Tetra Tech. 1994c. Final Chemical Data Acquisition Plan, Hawthorne Army Ammunition Plant. June 28, 1994.

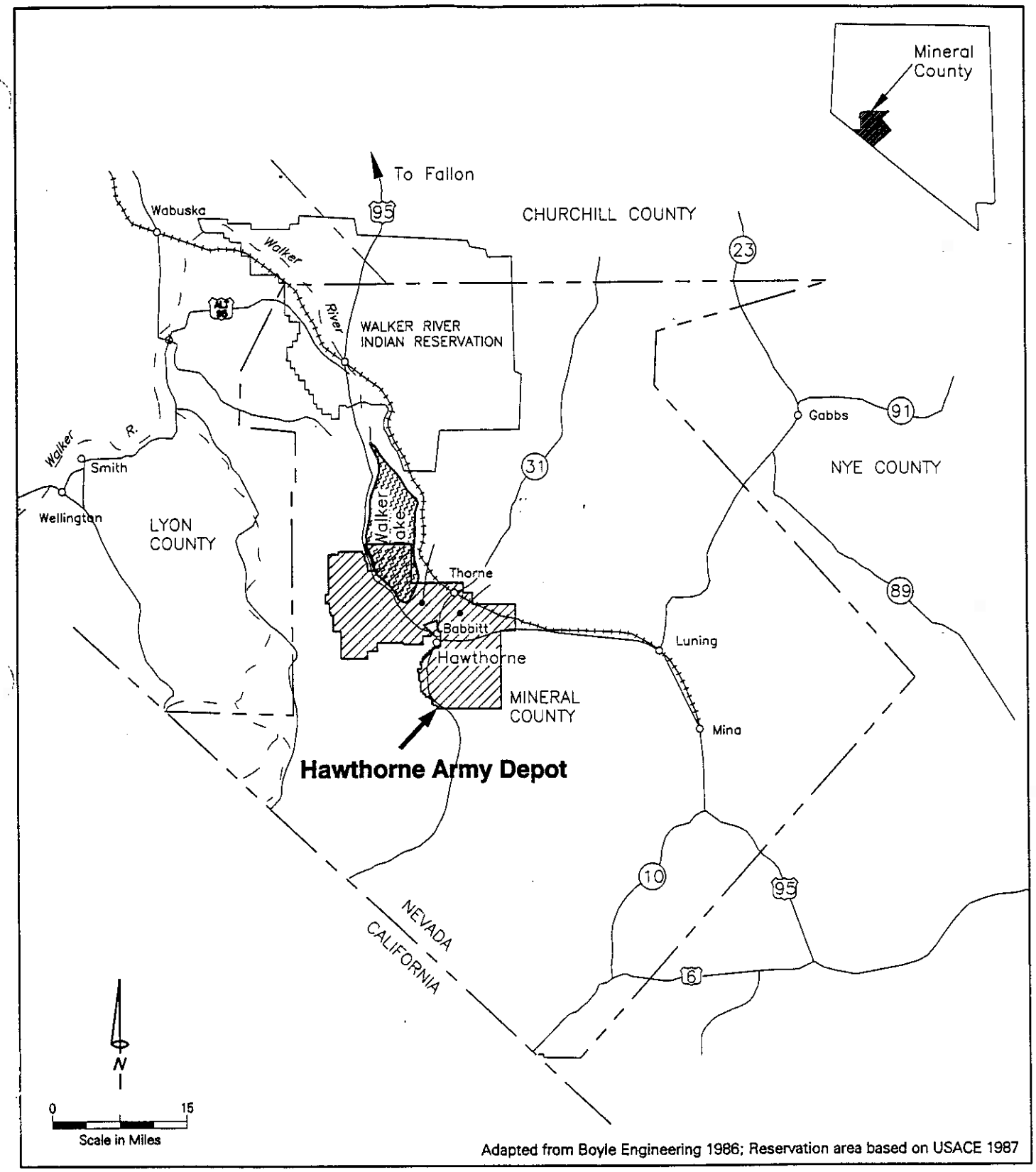
Tetra Tech. 1995. Group B Chemical Data Submittal, Hawthorne Army Ammunition Plant. March, 1995.

Tetra Tech. 1996. Hawthorne Army Depot Remedial Investigation Group B Solid Waste Management Units, Final Closure Report, SWMU A-03 Coal Ash Landfill, SWMU B-28a 108-20a EO Spill Impoundment, SWMU B-28b 108-20b EO spill Impoundment, SWMU B-28c 104-8 EO Spill Impoundment, SWMU B-28d 104-10 EO Spill Impoundment, SWMU I-14 Bldg 46 Spill Site, SWMU J-04 107 Drum Storage, SWMU J-05 Dock 1 Landfill, SWMU J-06 Dock 2 Landfill, SWMU J-07 Dock 3 Landfill, SWMU J-08 Dock 4 Landfill, SWMU J-09 Dock 5 Landfill, SWMU J-10 Dock 6 Landfill, SWMU J-13 WADF South Dump, SWMU J-17 Thorne Drum Area, SWMU J-21 Bldg 97 Old Dock Area, SWMU J-22 50 Group Pits, SWMU J-24 Trench near 50-60.

USACE. 1993. Installation Action Plan for Hawthorne Army Ammunition Plant (HWAAP), prepared by S. Hong.

Van Denburgh, A.S. and F.E. Rush. 1975. Source of Nitrate in Water from Supply Well 8, Hawthorne Naval Ammunition Depot, Nevada. U.S. Geological Survey administrative report, prepared in cooperation with the U.S. Navy. March, 1975. 23 pp.

# Figures




Adapted from Boyle Engineering 1986; Reservation area based on USACE 1987

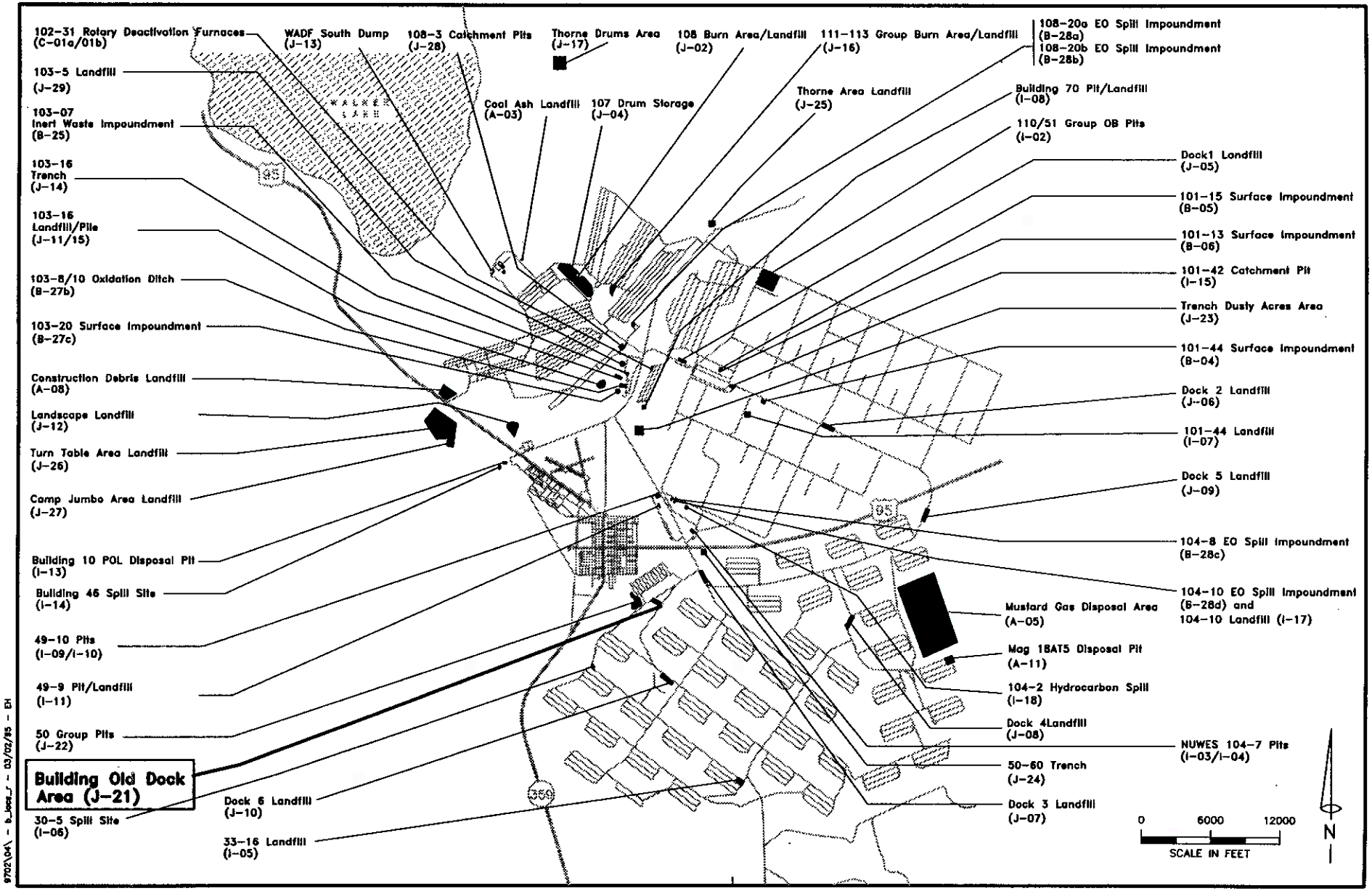
# Location Map

Legend

Hawthorne Army Depot

Hawthorne Army Depot
Hawthorne, Nevada

Tetra Tech, Inc.




TETRA TECH

***Location Map***
***Hawthorne Army Depot***

**Hawthorne, Nevada**

**Figure SWMU-J-21-1**

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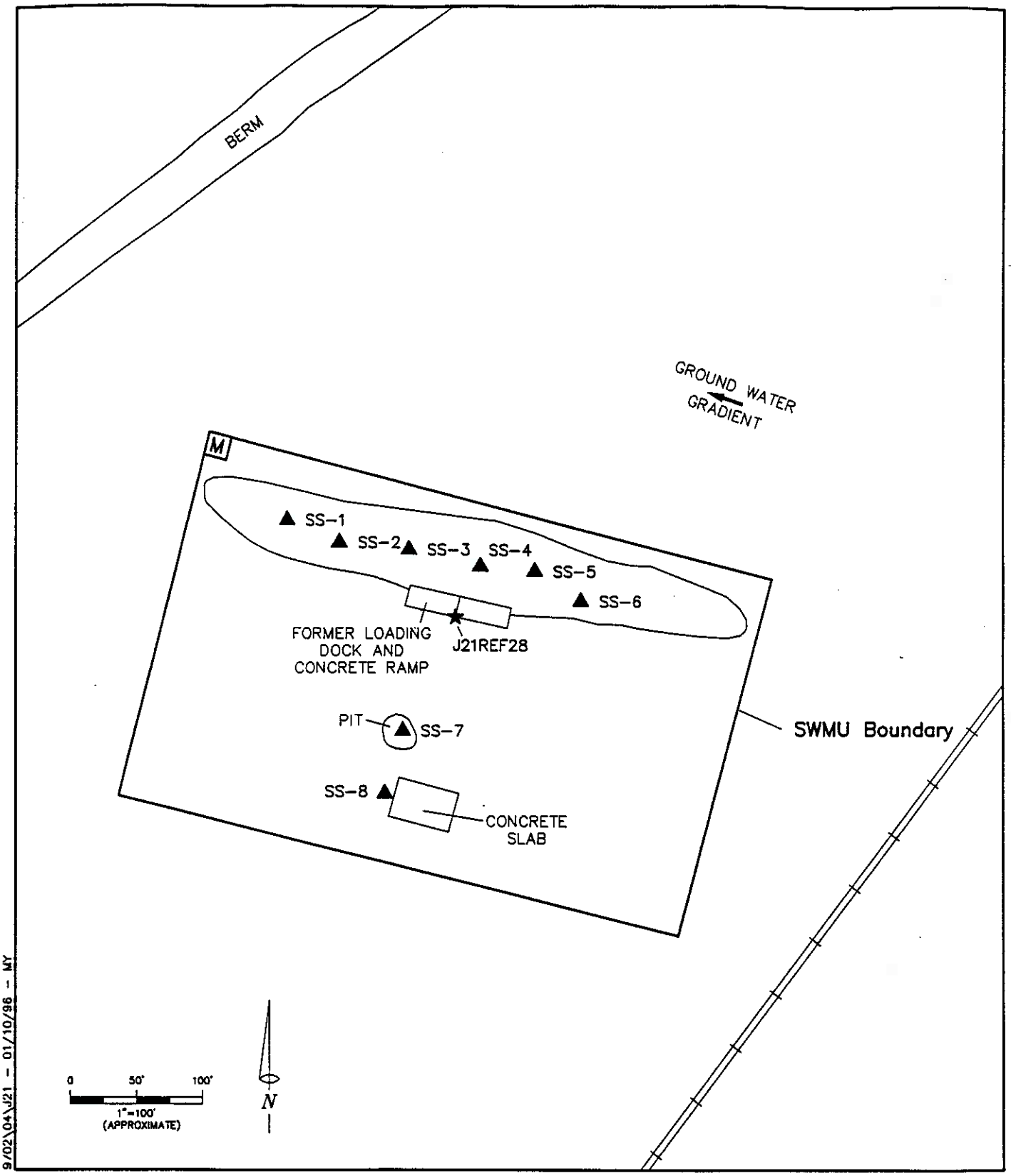


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LEGEND:

★ SWMU Reference point

▲ SS-X Surface sample location and number

M Monument location

TETRA TECH

*Activity Map*
*SWMU J-21*
*Building 97 Old Dock Area*

**Hawthorne Army Depot**
**Hawthorne, Nevada**

Source: Base map digitized from Aerial Photo Survey, June 1994. Geophysical data from Geophysical Survey, NORCAL, August 1994.

**Figure J-21-2**

# Appendix A

# Proposed Closure Goals
# Hawthorne Army Depot
# Hawthorne, Nevada

| Constituent of Concern | Chemical Classification | Carcinogenic (C) or Non-carcinogenic (NC) | HWAD Proposed Closure Goals for Soil (mg/kg) | HWAD Proposed Closure Goal Source |
|---|---|---|---|---|
| Nitrate | Anion | NC | 128,000 | Calculated Subpart S[a] |
| 2-Amino-dinitrotoluene | Explosive | NC | - | NA[b] |
| 4-Amino-dinitrotoluene | Explosive | NC | - | NA |
| 1,3-Dinitrobenzene | Explosive | NC | 8 | Calculated Subpart S |
| 2,4-Dinitrotoluene | Explosive | NC | 160 | Calculated Subpart S |
| 2,6-Dinitrotoluene | Explosive | NC | 80 | Calculated Subpart S |
| HMX | Explosive | NC | 4,000 | Calculated Subpart S |
| Nitrobenzene | Explosive | NC | 40 | Calculated Subpart S |
| Nitrotoluene (2-, 3-, 4-) | Explosive | NC | 800 | Calculated Subpart S |
| RDX | Explosive | NC | 64 | Calculated Subpart S |
| Tetryl | Explosive | NC | 800 | Calculated Subpart S |
| 1,3,5-Trinitrobenzene | Explosive | NC | 4 | Calculated Subpart S |
| 2,4,6-Trinitrotoluene | Explosive | C | 233 | Calculated Subpart S |
| Aluminum | Metal | NC | 80,000 | Calculated Subpart S |
| Arsenic (cancer endpoint) | Metal | C & NC | 30 | Background[c] |
| Barium and compounds | Metal | NC | 5,600 | Calculated Subpart S |
| Beryllium and compounds | Metal | C | 1 | Background |
| Cadmium and compounds | Metal | NC | 40 | Calculated Subpart S |
| Chromium III and compounds | Metal | NC | 80,000 | Calculated Subpart S |
| Lead | Metal | NC | 1000 | PRG[d] |
| Mercury and compounds (inorganic) | Metal | NC | 24 | Calculated Subpart S |
| Selenium | Metal | NC | 400 | Calculated Subpart S |
| Silver and compounds | Metal | NC | 400 | Calculated Subpart S |
| Acenaphthene | PAH | NC | 4,800 | Calculated Subpart S |
| Benzo[a]anthracene | PAH | C | 0.96 | Calculated Subpart S |
| Benzo[a]pyrene | PAH | C | 0.10 | Detection Limit[e] |
| Benzo[b]fluoranthene | PAH | C | 0.96 | Calculated Subpart S |
| Benzo[k]fluoranthene | PAH | C | 10 | Calculated Subpart S |
| Chrysene | PAH | C | 96 | Calculated Subpart S |
| Dibenz[ah]anthracene | PAH | C | 0.96 | Calculated Subpart S |
| Fluoranthene | PAH | NC | 3,200 | Calculated Subpart S |
| Fluorene | PAH | NC | 3,200 | Calculated Subpart S |
| Indeno[1,2,3-cd]pyrene | PAH | C | - | NA |
| Naphthalene | PAH | NC | 3,200 | Calculated Subpart S |
| Pyrene | PAH | NC | 2,400 | Calculated Subpart S |
| Total Petroleum Hydrocarbons as Diesel (TPH-d) | PAH | C | 100 | NDEP Level Clean-up[f] |
| Polychlorinated biphenyls (PCBs) | PCBs | C | 25 | TSCA[g] |
| Bis(2-ethylhexyl)phthalate (DEHP) | SVOC | C | 1,600 | Calculated Subpart S |
| Bromoform (tribromomethane) | SVOC | C | 89 | Calculated Subpart S |

## Proposed Closure Goals
## Hawthorne Army Depot
## Hawthorne, Nevada

| Constituent of Concern | Chemical Classification | Carcinogenic (C) or Non-carcinogenic (NC) | HWAD Proposed Closure Goals for Soil (mg/kg) | HWAD Proposed Closure Goal Source |
|---|---|---|---|---|
| Butyl benzyl phthalate | SVOC | NC | 16,000 | Calculated Subpart S |
| Dibromochloromethane | SVOC | C | 83 | Calculated Subpart S |
| Dibutyl-phthalate | SVOC | NC | 8,000 | Calculated Subpart S |
| Diethyl phthalate | SVOC | NC | 64,000 | Calculated Subpart S |
| Phenanthrene | SVOC | | - | NA |
| Phenol | SVOC | NC | 48,000 | Calculated Subpart S |
| Acetone | VOC | NC | 800 | Calculated Subpart S |
| Anthracene | VOC | NC | 24,000 | Calculated Subpart S |
| Benzene | VOC | C | 24 | Calculated Subpart S |
| Bis(2-chloroisopropyl)ether | VOC | C | 3,200 | Calculated Subpart S |
| Bromomethane | VOC | NC | 112 | Calculated Subpart S |
| Carbon tetrachloride | VOC | C | 5 | Calculated Subpart S |
| Chlorobenzene | VOC | NC | 1,600 | Calculated Subpart S |
| Chloroform | VOC | C | 115 | Calculated Subpart S |
| Chloromethane | VOC | C | 538 | Calculated Subpart S |
| Dibromomethane | VOC | C | 0.008 | Calculated Subpart S |
| 1,2-Dichlorobenzene | VOC | NC | 7,200 | Calculated Subpart S |
| 1,4-Dichlorobenzene | VOC | C | 18,300 | Calculated Subpart S |
| Dichlorodifluoromethane | VOC | C | 16,000 | Calculated Subpart S |
| Ethylbenzene | VOC | NC | 8,000 | Calculated Subpart S |
| Methylene bromide | VOC | NC | 800 | Calculated Subpart S |
| Methylene chloride | VOC | C | 4,800 | Calculated Subpart S |
| 2-Methylnaphthalene | VOC | | - | NA |
| 1,1,2,2-Tetrachloroethane | VOC | C | 35 | Calculated Subpart S |
| Tetrachloroethylene (PCE) | VOC | C & NC | 800 | Calculated Subpart S |
| Toluene | VOC | NC | 16,000 | Calculated Subpart S |
| 1,1,1-Trichloroethane | VOC | NC | 7,200 | Calculated Subpart S |
| Trichloroethylene (TCE) | VOC | C & NC | 480 | Calculated Subpart S |
| Trichlorofluoromethane | VOC | NC | 24,000 | Calculated Subpart S |
| 1,2,3-Trichloropropane | VOC | C | 480 | Calculated Subpart S |
| Vinyl chloride | VOC | C | 0.37 | Calculated Subpart S |
| Xylene Total (m-, o-, p-) | VOC | NC | 160,000 | Calculated Subpart S |
| 2,3,7,8-TCDD | Dioxin | C | 0.000005 | Calculated Subpart S |

[a] RCRA 55 FR 30870

[b] Not available

[c] Highest background concentration detected in 50 background soil samples

[d] Smucker, Stanford J. USEPA Rgion IX, Preliminary Remedial Goals, Second Half, Sep. 1995

[e] Method detection limit for Volatile Organic Compounds by EPA Method 8260 or Semi-Volatile Organic Compounds analyzed by EPA Method 8270

[f] Nevada Division of Environmental Protection

[g] Cleanup level for PCB spills in accordance with Toxic Substance and Control Act Spill Policy Guidelines 40 CFR 761

# Appendix B

# Summary Table of Analytical Data

## SWMU J21 - Bldg 97 Old Dock Area

Hawthorne Army Depot

Hawthorne, Nevada

January 1996

FINAL

FINAL

| Sample ID | Sample Depth (ft) | Sample Date | Method | Analyte | Value | Units | Flag |
|---|---|---|---|---|---|---|---|
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 6010 | Arsenic | < 4 | mg/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 6010 | Barium | 160 | mg/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 6010 | Cadmium | < 0.2 | mg/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 6010 | Chromium | 4.5 | mg/kg | J |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 6010 | Lead | 11 | mg/kg | J |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 6010 | Selenium | < 5 | mg/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 6010 | Silver | < 0.9 | mg/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 7471 | Mercury | < 0.04 | mg/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8015M | TPH (as diesel) | < 1 | mg/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,2,4-Trichlorobenzene | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,2-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,3-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,4-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4,5-Trichlorophenol | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4,6-Trichlorophenol | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dichlorophenol | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dimethylphenol | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrophenol | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrotoluene | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,6-Dinitrotoluene | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Chlorophenol | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methyl-4,6-dinitrophenol | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylnaphthalene | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylphenol (o-Cresol) | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitroaniline | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitrophenol | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 3,3'-Dichlorobenzidine | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 3-Nitroaniline | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Bromophenylphenylether | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloro-3-methylphenol | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloroaniline | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chlorophenylphenylether | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Methylphenol (p-Cresol) | < 300 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitroaniline | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitrophenol | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthene | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthylene | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Anthracene | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)anthracene | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)pyrene | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(b)fluoranthene | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(g,h,i)perylene | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(k)fluoranthene | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzoic acid | < 1000 | ug/kg | R |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzyl Alcohol | < 200 | ug/kg | |

| Sample ID | Sample Depth (ft) | Sample Date | Method | Analyte | Value | Units | Flag |
|---|---|---|---|---|---|---|---|
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethoxy)methan | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethyl)ether | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroisopropyl)ether | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-ethylhexyl)phthalate | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Butylbenzylphthalate | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Chrysene | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Di-n-octylphthalate | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibenzo(a,h)anthracene | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibenzofuran | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibutylphthalate | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Diethylphthalate | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dimethylphthalate | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Fluoranthene | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Fluorene | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobenzene | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270. | Hexachlorobutadiene | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorocyclopentadien | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachloroethane | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Indeno(1,2,3-c,d)pyrene | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Isophorone | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodi-n-propylamine | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodimethylamine | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodiphenylamine | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Naphthalene | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Nitrobenzene | < 200 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Pentachlorophenol | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Phenanthrene | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Phenol | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | 8270 | Pyrene | < 100 | ug/kg | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | D2216 | Moisture/TNFR | 0.69 | percent | |
| J21-SS01-1-S | 0.25-0.5 | 7/13/94 | D4031 | Immunoassay BTEX | 2< X <10 | mg/kg | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 6010 | Arsenic | < 4 | mg/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 6010 | Barium | 130 | mg/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 6010 | Cadmium | < 0.2 | mg/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 6010 | Chromium | 3.4 | mg/kg | J |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 6010 | Lead | 8.8 | mg/kg | J |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 6010 | Selenium | < 5 | mg/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 6010 | Silver | < 0.9 | mg/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 7471 | Mercury | < 0.04 | mg/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8015M | TPH (as diesel) | < 1 | mg/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,2,4-Trichlorobenzene | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,2-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,3-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,4-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4,5-Trichlorophenol | < 200 | ug/kg | |

# Summary Table of Analytical Data

## SWMU J21 - Bldg 97 Old Dock Area

Hawthorne Army Depot
Hawthorne, Nevada
January 1996

FINAL

FINAL

| Sample ID | Sample Depth (ft) | Sample Date | Method | Analyte | Value | Units | Flag |
|---|---|---|---|---|---|---|---|
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4,6-Trichlorophenol | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dichlorophenol | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dimethylphenol | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrophenol | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrotoluene | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,6-Dinitrotoluene | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Chlorophenol | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methyl-4,6-dinitrophenol | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylnaphthalene | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylphenol (o-Cresol) | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitroaniline | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitrophenol | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 3,3'-Dichlorobenzidine | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 3-Nitroaniline | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Bromophenylphenylether | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloro-3-methylphenol | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloroaniline | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chlorophenylphenylether | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Methylphenol (p-Cresol) | < 300 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitroaniline | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitrophenol | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthene | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthylene | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Anthracene | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)anthracene | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)pyrene | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(b)fluoranthene | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(g,h,i)perylene | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(k)fluoranthene | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzoic acid | < 1000 | ug/kg | R |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzyl Alcohol | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethoxy)methan | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethyl)ether | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroisopropyl)ether | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-ethylhexyl)phthalate | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Butylbenzylphthalate | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Chrysene | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Di-n-octylphthalate | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibenzo(a,h)anthracene | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibenzofuran | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibutylphthalate | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Diethylphthalate | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dimethylphthalate | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Fluoranthene | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Fluorene | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobenzene | < 100 | ug/kg | |

# Summary Table of Analytical Data

## SWMU J21 - Bldg 97 Old Dock Area

Hawthorne Army Depot

Hawthorne, Nevada

January 1996

FINAL

FINAL

| Sample ID | Sample Depth (ft) | Sample Date | Method | Analyte | Value | Units | Flag |
|---|---|---|---|---|---|---|---|
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobutadiene | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorocyclopentadien | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachloroethane | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Indeno(1,2,3-c,d)pyrene | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Isophorone | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodi-n-propylamine | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodimethylamine | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodiphenylamine | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Naphthalene | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Nitrobenzene | < 200 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Pentachlorophenol | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Phenanthrene | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Phenol | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | 8270 | Pyrene | < 100 | ug/kg | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | D2216 | Moisture/TNFR | 0.18 | percent | |
| J21-SS02-1-S | 0.25-0.5 | 7/13/94 | D4031 | Immunoassay BTEX | 2< X <10 | mg/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 6010 | Arsenic | < 4 | mg/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 6010 | Barium | 240 | mg/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 6010 | Cadmium | 0.34 | mg/kg | J |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 6010 | Chromium | 5.6 | mg/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 6010 | Lead | 19 | mg/kg | J |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 6010 | Selenium | < 5 | mg/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 6010 | Silver | < 0.9 | mg/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 7471 | Mercury | 0.082 | mg/kg | J |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8015M | TPH (as diesel) | < 1 | mg/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,2,4-Trichlorobenzene | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,2-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,3-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,4-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4,5-Trichlorophenol | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4,6-Trichlorophenol | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dichlorophenol | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dimethylphenol | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrophenol | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrotoluene | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,6-Dinitrotoluene | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Chlorophenol | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methyl-4,6-dinitrophenol | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylnaphthalene | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylphenol (o-Cresol) | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitroaniline | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitrophenol | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 3,3'-Dichlorobenzidine | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 3-Nitroaniline | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Bromophenylphenylether | < 100 | ug/kg | |

| Sample ID | Sample Depth (ft) | Sample Date | Method | Analyte | Value | Units | Flag |
|---|---|---|---|---|---|---|---|
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloro-3-methylphenol | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloroaniline | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chlorophenylphenylether | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Methylphenol (p-Cresol) | < 300 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitroaniline | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitrophenol | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthene | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthylene | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Anthracene | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)anthracene | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)pyrene | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(b)fluoranthene | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(g,h,i)perylene | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(k)fluoranthene | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzoic acid | < 1000 | ug/kg | R |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzyl Alcohol | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethoxy)methan | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethyl)ether | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroisopropyl)ether | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-ethylhexyl)phthalate | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Butylbenzylphthalate | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Chrysene | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Di-n-octylphthalate | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibenzo(a,h)anthracene | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibenzofuran | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibutylphthalate | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Diethylphthalate | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dimethylphthalate | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Fluoranthene | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Fluorene | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobenzene | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobutadiene | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorocyclopentadien | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachloroethane | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Indeno(1,2,3-c,d)pyrene | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Isophorone | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodi-n-propylamine | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodimethylamine | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodiphenylamine | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Naphthalene | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Nitrobenzene | < 200 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Pentachlorophenol | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Phenanthrene | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Phenol | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | 8270 | Pyrene | < 100 | ug/kg | |
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | D2216 | Moisture/TNFR | 2.4 | percent | |

# Summary Table of Analytical Data

## SWMU J21 - Bldg 97 Old Dock Area

Hawthorne Army Depot

Hawthorne, Nevada

January 1996

FINAL

FINAL

| Sample ID | Sample Depth (ft) | Sample Date | Method | Analyte | Value | Units | Flag |
|---|---|---|---|---|---|---|---|
| J21-SS03-1-S | 0.25-0.5 | 7/13/94 | D4031 | Immunoassay BTEX | 2< X <10 | mg/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 6010 | Arsenic | < 4 | mg/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 6010 | Barium | 86 | mg/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 6010 | Cadmium | < 0.2 | mg/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 6010 | Chromium | 3 | mg/kg | J |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 6010 | Lead | 5 | mg/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 6010 | Selenium | < 5 | mg/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 6010 | Silver | < 0.9 | mg/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 7471 | Mercury | < 0.04 | mg/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8015M | TPH (as diesel) | < 1 | mg/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,2,4-Trichlorobenzene | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,2-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,3-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,4-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4,5-Trichlorophenol | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4,6-Trichlorophenol | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dichlorophenol | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dimethylphenol | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrophenol | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrotoluene | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,6-Dinitrotoluene | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Chlorophenol | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methyl-4,6-dinitrophenol | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylnaphthalene | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylphenol (o-Cresol) | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitroaniline | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitrophenol | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 3,3'-Dichlorobenzidine | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 3-Nitroaniline | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Bromophenylphenylether | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloro-3-methylphenol | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloroaniline | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chlorophenylphenylether | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Methylphenol (p-Cresol) | < 300 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitroaniline | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitrophenol | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthene | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthylene | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Anthracene | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)anthracene | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)pyrene | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(b)fluoranthene | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(g,h,i)perylene | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(k)fluoranthene | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzoic acid | < 1000 | ug/kg | R |

| Sample ID | Sample Depth (ft) | Sample Date | Method | Analyte | Value | Units | Flag |
|---|---|---|---|---|---|---|---|
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzyl Alcohol | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethoxy)methan | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethyl)ether | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroisopropyl)ether | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-ethylhexyl)phthalate | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Butylbenzylphthalate | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Chrysene | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Di-n-octylphthalate | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibenzo(a,h)anthracene | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibenzofuran | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibutylphthalate | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Diethylphthalate | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dimethylphthalate | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Fluoranthene | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Fluorene | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobenzene | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobutadiene | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorocyclopentadien | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachloroethane | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Indeno(1,2,3-c,d)pyrene | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Isophorone | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodi-n-propylamine | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodimethylamine | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodiphenylamine | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Naphthalene | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Nitrobenzene | < 200 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Pentachlorophenol | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Phenanthrene | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Phenol | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | 8270 | Pyrene | < 100 | ug/kg | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | D2216 | Moisture/TNFR | 0.38 | percent | |
| J21-SS04-1-S | 0.25-0.5 | 7/13/94 | D4031 | Immunoassay BTEX | 2< X <10 | mg/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 6010 | Arsenic | < 4 | mg/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 6010 | Barium | 320 | mg/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 6010 | Cadmium | 0.48 | mg/kg | J |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 6010 | Chromium | 8.7 | mg/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 6010 | Lead | 27 | mg/kg | J |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 6010 | Selenium | < 5 | mg/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 6010 | Silver | < 0.9 | mg/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 7471 | Mercury | 0.093 | mg/kg | J |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8015M | TPH (as diesel) | 2.4 | mg/kg | J |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,2,4-Trichlorobenzene | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,2-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,3-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,4-Dichlorobenzene | < 200 | ug/kg | |

## Summary Table of Analytical Data

### SWMU J21 - Bldg 97 Old Dock Area

Hawthorne Army Depot

Hawthorne, Nevada

January 1996

FINAL

FINAL

| Sample ID | Sample Depth (ft) | Sample Date | Method | Analyte | Value | Units | Flag |
|---|---|---|---|---|---|---|---|
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4,5-Trichlorophenol | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4,6-Trichlorophenol | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dichlorophenol | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dimethylphenol | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrophenol | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrotoluene | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,6-Dinitrotoluene | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Chlorophenol | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methyl-4,6-dinitrophenol | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylnaphthalene | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylphenol (o-Cresol) | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitroaniline | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitrophenol | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 3,3'-Dichlorobenzidine | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 3-Nitroaniline | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Bromophenylphenylether | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloro-3-methylphenol | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloroaniline | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chlorophenylphenylether | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Methylphenol (p-Cresol) | < 300 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitroaniline | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitrophenol | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthene | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthylene | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Anthracene | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)anthracene | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)pyrene | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(b)fluoranthene | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(g,h,i)perylene | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(k)fluoranthene | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzoic acid | < 1000 | ug/kg | R |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzyl Alcohol | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethoxy)methan | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethyl)ether | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroisopropyl)ether | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-ethylhexyl)phthalate | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Butylbenzylphthalate | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Chrysene | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Di-n-octylphthalate | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibenzo(a,h)anthracene | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibenzofuran | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibutylphthalate | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Diethylphthalate | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dimethylphthalate | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Fluoranthene | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Fluorene | < 100 | ug/kg | |

| Sample ID | Sample Depth (ft) | Sample Date | Method | Analyte | Value | Units | Flag |
|---|---|---|---|---|---|---|---|
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobenzene | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobutadiene | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorocyclopentadien | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachloroethane | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Indeno(1,2,3-c,d)pyrene | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Isophorone | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodi-n-propylamine | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodimethylamine | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodiphenylamine | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Naphthalene | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Nitrobenzene | < 200 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Pentachlorophenol | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Phenanthrene | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Phenol | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | 8270 | Pyrene | < 100 | ug/kg | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | D2216 | Moisture/TNFR | 2.9 | percent | |
| J21-SS05-1-S | 0.25-0.5 | 7/13/94 | D4031 | Immunoassay BTEX | 10< X <50 | mg/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 6010 | Arsenic | < 4 | mg/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 6010 | Barium | 240 | mg/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 6010 | Cadmium | 0.32 | mg/kg | J |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 6010 | Chromium | 6.4 | mg/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 6010 | Lead | 24 | mg/kg | J |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 6010 | Selenium | < 5 | mg/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 6010 | Silver | < 0.9 | mg/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 7471 | Mercury | 0.061 | mg/kg | J |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8015M | TPH (as diesel) | < 1 | mg/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,2,4-Trichlorobenzene | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,2-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,3-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,4-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4,5-Trichlorophenol | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4,6-Trichlorophenol | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dichlorophenol | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dimethylphenol | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrophenol | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrotoluene | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,6-Dinitrotoluene | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Chlorophenol | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methyl-4,6-dinitrophenol | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylnaphthalene | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylphenol (o-Cresol) | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitroaniline | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitrophenol | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 3,3'-Dichlorobenzidine | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 3-Nitroaniline | < 200 | ug/kg | |

## Summary Table of Analytical Data

### SWMU J21 - Bldg 97 Old Dock Area

Hawthorne Army Depot

Hawthorne, Nevada

FINAL

January 1996

FINAL

| Sample ID | Sample Depth (ft) | Sample Date | Method | Analyte | Value | Units | Flag |
|---|---|---|---|---|---|---|---|
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Bromophenylphenylether | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloro-3-methylphenol | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloroaniline | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chlorophenylphenylether | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Methylphenol (p-Cresol) | < 300 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitroaniline | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitrophenol | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthene | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthylene | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Anthracene | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)anthracene | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)pyrene | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(b)fluoranthene | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(g,h,i)perylene | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(k)fluoranthene | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzoic acid | < 1000 | ug/kg | R |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzyl Alcohol | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethoxy)methan | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethyl)ether | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroisopropyl)ether | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-ethylhexyl)phthalate | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Butylbenzylphthalate | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Chrysene | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Di-n-octylphthalate | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibenzo(a,h)anthracene | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibenzofuran | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibutylphthalate | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Diethylphthalate | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dimethylphthalate | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Fluoranthene | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Fluorene | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobenzene | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobutadiene | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorocyclopentadien | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachloroethane | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Indeno(1,2,3-c,d)pyrene | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Isophorone | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodi-n-propylamine | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodimethylamine | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodiphenylamine | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Naphthalene | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Nitrobenzene | < 200 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Pentachlorophenol | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Phenanthrene | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Phenol | < 100 | ug/kg | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | 8270 | Pyrene | < 100 | ug/kg | |

# Summary Table of Analytical Data

## SWMU J21 - Bldg 97 Old Dock Area

Hawthorne Army Depot
Hawthorne, Nevada
January 1996

FINAL

FINAL

| Sample ID | Sample Depth (ft) | Sample Date | Method | Analyte | Value | Units | Flag |
|---|---|---|---|---|---|---|---|
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | D2216 | Moisture/TNFR | 1.4 | percent | |
| J21-SS06-1-S | 0.25-0.5 | 7/13/94 | D4031 | Immunoassay BTEX | 2< X <10 | mg/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 6010 | Arsenic | < 4 | mg/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 6010 | Barium | 290 | mg/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 6010 | Cadmium | 0.57 | mg/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 6010 | Chromium | 8.5 | mg/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 6010 | Lead | 27 | mg/kg | J |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 6010 | Selenium | < 5 | mg/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 6010 | Silver | < 0.9 | mg/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 7471 | Mercury | 0.051 | mg/kg | J |
| J21-SS06-1-SD (DP062 | 0.25-0.5 | 7/13/94 | 8015M | TPH (as diesel) | 1.8 | mg/kg | J |
| J21-SS06-1-SD (DP063 | 0.25-0.5 | 7/13/94 | 8015M | TPH (as diesel) | 0 | mg/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | 1,1,1,2-Tetrachloroethane | < 0.4 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | 1,1,1-Trichloroethane | < 0.6 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | 1,1,2,2-Tetrachloroethane | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | 1,1,2-Trichloroethane | < 0.4 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | 1,1-Dichloroethane | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | 1,1-Dichloroethene | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | 1,2,3-Trichloropropane | < 0.8 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | 1,2-Dichlorobenzene | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | 1,2-Dichloroethane | < 0.6 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | 1,2-Dichloropropane | < 0.8 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | 1,3-Dichlorobenzene | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | 1,4-Dichlorobenzene | < 0.4 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | 2-Chloroethylvinylether | < 0.6 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Benzene | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Benzyl chloride | < 0.6 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Bromobenzene | < 0.4 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Bromodichloromethane | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Bromoform | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Bromomethane | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Carbon Tetrachloride | < 0.6 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Chlorobenzene | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Chloroethane | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Chloroform | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Chloromethane | < 0.6 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | cis-1,3-Dichloropropene | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Dibromochloromethane | < 0.6 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Dibromomethane | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Dichlorodifluoromethane | < 0.1 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Ethylbenzene | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Methylene chloride | < 0.4 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Tetrachloroethene | < 0.6 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Toluene | < 0.4 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Total Xylene Isomers | < 0.6 | ug/kg | |

| Sample ID | Sample Depth (ft) | Sample Date | Method | Analyte | Value | Units | Flag |
|---|---|---|---|---|---|---|---|
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | trans-1,2-Dichloroethene | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | trans-1,3-Dichloropropene | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Trichloroethene | < 1 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Trichlorofluoromethane | < 0.1 | ug/kg | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | 8260 | Vinyl chloride | < 0.2 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 1,2,4-Trichlorobenzene | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 1,2-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 1,3-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 1,4-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 2,4,5-Trichlorophenol | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 2,4,6-Trichlorophenol | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dichlorophenol | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dimethylphenol | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrophenol | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrotoluene | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 2,6-Dinitrotoluene | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 2-Chlorophenol | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 2-Methyl-4,6-dinitrophenol | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylnaphthalene | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylphenol (o-Cresol) | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitroaniline | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitrophenol | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 3,3'-Dichlorobenzidine | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 3-Nitroaniline | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 4-Bromophenylphenylether | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloro-3-methylphenol | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloroaniline | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 4-Chlorophenylphenylether | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 4-Methylphenol (p-Cresol) | < 300 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitroaniline | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitrophenol | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthene | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthylene | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Anthracene | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)anthracene | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)pyrene | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Benzo(b)fluoranthene | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Benzo(g,h,i)perylene | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Benzo(k)fluoranthene | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Benzoic acid | < 1000 | ug/kg | R |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Benzyl Alcohol | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethoxy)methan | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethyl)ether | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroisopropyl)ether | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-ethylhexyl)phthalate | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Butylbenzylphthalate | < 100 | ug/kg | |

# Summary Table of Analytical Data

## SWMU J21 - Bldg 97 Old Dock Area

Hawthorne Army Depot

Hawthorne, Nevada

January 1996

FINAL

FINAL

| Sample ID | Sample Depth (ft) | Sample Date | Method | Analyte | Value | Units | Flag |
|---|---|---|---|---|---|---|---|
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Chrysene | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Di-n-octylphthalate | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Dibenzo(a,h)anthracene | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Dibenzofuran | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Dibutylphthalate | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Diethylphthalate | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Dimethylphthalate | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Fluoranthene | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Fluorene | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobenzene | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobutadiene | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorocyclopentadien | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Hexachloroethane | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Indeno(1,2,3-c,d)pyrene | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Isophorone | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodi-n-propylamine | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodimethylamine | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodiphenylamine | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Naphthalene | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Nitrobenzene | < 200 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Pentachlorophenol | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Phenanthrene | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Phenol | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | 8270 | Pyrene | < 100 | ug/kg | |
| J21-SS06-1-SD (DP064 | 0.25-0.5 | 7/13/94 | D2216 | Moisture/TNFR | 1.5 | percent | |
| J21-SS06-1-SD (DP061 | 0.25-0.5 | 7/13/94 | D2216 | Moisture/TNFR | 1.4 | percent | |
| J21-SS06-1-SD (DP060 | 0.25-0.5 | 7/13/94 | D4031 | Immunoassay BTEX | 2< X <10 | mg/kg | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 6010 | Arsenic | < 4 | mg/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 6010 | Barium | 130 | mg/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 6010 | Cadmium | 0.27 | mg/kg | J |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 6010 | Chromium | 3.9 | mg/kg | J |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 6010 | Lead | 8.1 | mg/kg | J |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 6010 | Selenium | < 5 | mg/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 6010 | Silver | < 0.9 | mg/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 7471 | Mercury | < 0.04 | mg/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8015M | TPH (as diesel) | < 1 | mg/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,2,4-Trichlorobenzene | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,2-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,3-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,4-Dichlorobenzene | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4,5-Trichlorophenol | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4,6-Trichlorophenol | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dichlorophenol | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dimethylphenol | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrophenol | < 100 | ug/kg | |

| Sample ID | Sample Depth (ft) | Sample Date | Method | Analyte | Value | Units | Flag |
|---|---|---|---|---|---|---|---|
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrotoluene | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,6-Dinitrotoluene | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Chlorophenol | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methyl-4,6-dinitrophenol | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylnaphthalene | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylphenol (o-Cresol) | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitroaniline | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitrophenol | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 3,3'-Dichlorobenzidine | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 3-Nitroaniline | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Bromophenylphenylether | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloro-3-methylphenol | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloroaniline | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chlorophenylphenylether | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Methylphenol (p-Cresol) | < 300 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitroaniline | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitrophenol | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthene | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthylene | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Anthracene | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)anthracene | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)pyrene | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(b)fluoranthene | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(g,h,i)perylene | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(k)fluoranthene | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzoic acid | < 1000 | ug/kg | R |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzyl Alcohol | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethoxy)methan | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethyl)ether | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroisopropyl)ether | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-ethylhexyl)phthalate | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Butylbenzylphthalate | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Chrysene | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Di-n-octylphthalate | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibenzo(a,h)anthracene | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibenzofuran | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibutylphthalate | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Diethylphthalate | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dimethylphthalate | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Fluoranthene | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Fluorene | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobenzene | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobutadiene | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorocyclopentadien | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachloroethane | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Indeno(1,2,3-c,d)pyrene | < 200 | ug/kg | |

| Sample ID | Sample Depth (ft) | Sample Date | Method | Analyte | Value | Units | Flag |
|---|---|---|---|---|---|---|---|
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Isophorone | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodi-n-propylamine | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodimethylamine | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodiphenylamine | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Naphthalene | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Nitrobenzene | < 200 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Pentachlorophenol | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Phenanthrene | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Phenol | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | 8270 | Pyrene | < 100 | ug/kg | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | D2216 | Moisture/TNFR | 0.36 | percent | |
| J21-SS07-1-S | 0.25-0.5 | 7/13/94 | D4031 | Immunoassay BTEX | <2 | mg/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 6010 | Arsenic | < 4 | mg/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 6010 | Barium | 180 | mg/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 6010 | Cadmium | 0.43 | mg/kg | J |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 6010 | Chromium | 5 | mg/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 6010 | Lead | 690 | mg/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 6010 | Selenium | < 5 | mg/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 6010 | Silver | < 0.9 | mg/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 7471 | Mercury | < 0.04 | mg/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8015M | TPH (as diesel) | 1.4 | mg/kg | J |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,2,4-Trichlorobenzene | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,2-Dichlorobenzene | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,3-Dichlorobenzene | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 1,4-Dichlorobenzene | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4,5-Trichlorophenol | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4,6-Trichlorophenol | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dichlorophenol | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dimethylphenol | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrophenol | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,4-Dinitrotoluene | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2,6-Dinitrotoluene | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Chlorophenol | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methyl-4,6-dinitrophenol | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylnaphthalene | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Methylphenol (o-Cresol) | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitroaniline | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 2-Nitrophenol | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 3,3'-Dichlorobenzidine | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 3-Nitroaniline | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Bromophenylphenylether | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloro-3-methylphenol | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chloroaniline | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Chlorophenylphenylether | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Methylphenol (p-Cresol) | < 2000 | ug/kg | |

## Summary Table of Analytical Data

### SWMU J21 - Bldg 97 Old Dock Area

Hawthorne Army Depot
Hawthorne, Nevada
January 1996

FINAL

FINAL

| Sample ID | Sample Depth (ft) | Sample Date | Method | Analyte | Value | Units | Flag |
|---|---|---|---|---|---|---|---|
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitroaniline | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | 4-Nitrophenol | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthene | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Acenaphthylene | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Anthracene | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)anthracene | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(a)pyrene | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(b)fluoranthene | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(g,h,i)perylene | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzo(k)fluoranthene | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzoic acid | < 5000 | ug/kg | R |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Benzyl Alcohol | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethoxy)methan | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroethyl)ether | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-chloroisopropyl)ether | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Bis(2-ethylhexyl)phthalate | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Butylbenzylphthalate | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Chrysene | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Di-n-octylphthalate | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibenzo(a,h)anthracene | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibenzofuran | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dibutylphthalate | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Diethylphthalate | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Dimethylphthalate | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Fluoranthene | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Fluorene | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobenzene | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorobutadiene | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachlorocyclopentadien | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Hexachloroethane | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Indeno(1,2,3-c,d)pyrene | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Isophorone | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodi-n-propylamine | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodimethylamine | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | N-Nitrosodiphenylamine | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Naphthalene | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Nitrobenzene | < 1000 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Pentachlorophenol | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Phenanthrene | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Phenol | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | 8270 | Pyrene | < 500 | ug/kg | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | D2216 | Moisture/TNFR | 0.39 | percent | |
| J21-SS08-1-S | 0.25-0.5 | 7/13/94 | D4031 | Immunoassay BTEX | 2< X <10 | mg/kg | |

# Appendix C

# Survey Data at SWMU J-21
# Hawthorne Army Depot
# Hawthorne, Nevada

| Point Name | Northing | Easting |
|---|---|---|
| J21REF28 | 493089.09 | 1368966.33 |
| SS-1 | 492960.92 | 1369039.53 |
| SS-2 | 493000.68 | 1369022.8 |
| SS-3 | 493053.61 | 1369017.32 |
| SS-4 | 493107.68 | 1369004.55 |
| SS-5 | 493148.9 | 1369000.88 |
| SS-6 | 493183.78 | 1368978.3 |
| SS-7 | 493049.01 | 1368880.03 |
| SS-8 | 493035.26 | 1368832.33 |

Footnote: Survey data in Nevada State Plane West, 1927 coordinates.

# Appendix D

SWMU J-21 (before)
Bldg. 97 Old Dock Area

SWMU J-21 (after)
Bldg. 97 Old Dock Area