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SURFACE AND SUBSURFACE SOIL SAMPLING AND ANALYSIS RESULTS FOR AIRCRAFT
DISPLAY AREA WITH TRANSMITTAL LETTER NS MAYPORT FL
10/16/1995
ABB ENVIRONMENTAL



October 16, 1995

Southern Division
Naval Facilities Engineering Command
ATTN: Mr. David Driggers
P.O. Box 190010
2155 Eagle Drive
North Charleston, SC 29418

Dear David:

SUBJECT: Surface Soil and Subsurface Soil Sampling and Analytical Results
Aircraft Display Area
U.S. Naval Station, Mayport, Florida
Navy CLEAN District I CTO #0028
Contract No. N62467-89-D-0317

Enclosed please find a copy of the above referenced letter report presenting the results of sampling and chemical analysis of soil samples collected in June 1994 in the vicinity of the Aircraft Display Area.

Sincerely,

ABB Environmental Services, Inc.



Francis K. Lesesne, P.G.
Technical Lead



Terry Hansen, P.G.
Project Manager

cc: Cheryl Mitchell, NAVSTA Mayport
Jim Cason, FDEP
Martha Berry, USEPA

ABB Environmental Services, Inc.



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Dear David:

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INTRODUCTION

This document describes the collection and analytical results of surface and subsurface soil samples, and associated duplicates collected from the aircraft display area at the U.S. Naval Station (NAVSTA) Mayport, Florida. Also provided are Toxicity Characteristic Leaching Procedure (TCLP) results of abrasive blasting media (Black Beauty™). The location of NAVSTA Mayport is shown on Figure 1 (Attachment A), and the location of the aircraft display area and sampling locations are shown on Figure 2. The sampling event was performed by ABB Environmental Services, Inc., (ABB-ES) at the request of the Department of the Navy, Southern Division Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) on behalf of NAVSTA Mayport.

The aircraft display area is not listed in NAVSTA Mayport's Hazardous and Solid Waste Amendment (HSWA) permit as either an area of concern (AOC) or a solid waste management unit (SWMU). The purpose of this sampling and analysis event was to collect representative samples of Black Beauty as well as surface and subsurface soil samples for laboratory analysis and then assess whether hazardous materials might have been released to the environment. The sampling event is not intended to assess the nature and extent of contamination, if present.

Background information obtained for the Aircraft Display Area is based on a site visit and review of available historical aerial photographs. The site visit indicated the presence of an abrasive blasting media (Black Beauty™) in an area approximately 400 to 800 feet south-southwest of SWMU 16 and the Naval Supply Center (NSC) Fuel Farm (Figure 2). The Black Beauty™ was a thin veneer on the asphalt pavement that formerly was the active runway. Anecdotal evidence from a station employee suggests that Black Beauty™ was stockpiled for future use at this location. Parts of the former runway at the Black Beauty™ area and SWMU 16 were paved in June and July 1995. These areas are to be used as a parking area for station personnel deployed at sea.

ABB Environmental Services, Inc.

FIELD ACTIVITIES

Field activities were limited to the collection of samples of the abrasive blasting media and surface and subsurface soil samples. The samples were collected on June 30, 1994. The methodology for sample collection was consistent with standard operating procedures described in the NAVSTA Mayport's Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Workplan (ABB-ES, 1991), the NAVSTA Mayport General Information Report (ABB-ES, 1995), and U.S. Environmental Protection Agency (USEPA) Region IV standard operating procedures (USEPA, 1991). The samples were shipped to the laboratory by express-overnight delivery under the chain-of-custody protocol.

The following describes the collection of the abrasive blasting media and soil samples, laboratory analytical procedures, equipment decontamination, and health and safety.

Black Beauty Sample Collection. Blasting media sampling was conducted to assess whether the blasting media contained metals (arsenic, barium, beryllium, cadmium, chromium, lead, mercury, selenium, and silver) at concentrations that meet the definition for hazardous waste (40 Code of Federal Regulations [CFR] Part 261). Two samples of Black Beauty™, MPT-AA-Z001 and MPT-AA-Z002, were collected from the asphalt runway at the aircraft display area.

Surface Soil Sample Collection. Surface soil sampling was conducted to assess whether runoff from the asphalt runway had resulted in a release of hazardous chemicals to the environment. The sampling locations were selected at the grass-covered area because the pavement of the former runway would limit infiltration of surface water. Two surface soil samples, MPT-AA-SS01 and MPT-AA-SS02, and an associated duplicate were collected in grass-covered areas that received surface water runoff from where the Black Beauty™ had been previously stockpiled (Figure 2). A duplicate sample was collected at the location of surface soil sample, MPT-AA-SS01. Vegetation was removed and the surface soil samples were collected from the land surface to a depth of one foot below land surface (bls).

Subsurface Soil Sample Collection. Subsurface soil sampling also was conducted to assess whether runoff from the asphalt runway had resulted in a release of hazardous chemicals to the environment. Two subsurface soil samples, MPT-AA-BS01 and MPT-AA-BS02, and an associated duplicate were collected at the surface soil sampling locations. A duplicate was collected at the location of subsurface soil sample, MPT-AA-BS01. The subsurface soil samples were collected from a depth of one foot to two feet below land surface (bls).

Laboratory Analyses. The samples of the Black Beauty™ abrasive blasting media were analyzed for metals selected from the TCLP list (arsenic, barium, beryllium, cadmium, chromium, lead, mercury, selenium, and silver) (USEPA Method 1311). Soil samples were analyzed for target analytes selected from the groundwater monitoring list contained in Appendix IX, 40 CFR, Part 264, and USEPA Contract Laboratory Program (CLP) target compound list and target analyte list, including volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), metals, and cyanide (ABB-ES, 1995). The analysis was conducted using methods contained in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, USEPA SW846 (USEPA, 1986). A summary of the analytical results are provided in tables in Attachment B and complete analytical results are provided in Attachment C.

The analytical data package produced by the laboratory was Naval Energy and Environmental Support Activity (NEESA) Level C. The rationale for using NEESA Level C was to provide analytical data that could be validated substituting the SW846 method criteria for CLP method criteria using National Functional Guidelines for Organic Data Review (USEPA, 1990) and Laboratory Data Validation

Functional Guidelines for Evaluating Inorganic Analysis (USEPA, 1988). The data were validated so that the appropriate decision can be made as to whether the sites should be evaluated under the NAVSTA Mayport RCRA Corrective Action Program. Because of the limited scope of this project, the TCLP data was not validated according to the NEESA guidance document 20.2-047B (1988), Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program.

Decontamination. Sampling equipment was decontaminated according to the equipment decontamination procedures specified in the USEPA-approved Resource Conservation and Recovery Act (RCRA) Facility Investigation Workplan for NAVSTA Mayport, Volume II (ABB-ES, 1991), the NAVSTA Mayport General Information Report (ABB-ES, 1995), and USEPA Region IV standard operating procedures (USEPA, 1991).

Health and Safety. The field sampling activities were performed in Occupational Safety and Health Administration (OSHA) Level D personal protective equipment (PPE). The Level D PPE consisted of steel-toed work boots and disposable gloves. The health and safety requirements for performance of the field work are described in the Health and Safety Plan for the Mayport Resource Conservation and Recovery Act Facility Investigation Workplan for NAVSTA Mayport Volume III (ABB-ES, 1991, revised).

ANALYTICAL RESULTS

Black Beauty™. Concentrations of barium and cadmium were detected in the extracts from the Black Beauty™ samples and did not exceed the TCLP regulatory criteria (Table 1). The analytical results suggest that Black Beauty™ does not meet the definition of a RCRA-characteristic hazardous waste, and would not likely be a source of inorganics that may leach and migrate to groundwater.

Soil Samples. The locations of the surface and subsurface soil samples and associated duplicates collected at the aircraft display area are shown on Figure 2. Tables 2 and 3 summarize the validated analytical results for organic and inorganic analytes, respectively, detected in surface soil samples. Tables 4 and 5 summarize the validated analytical results for organic and inorganic analytes, respectively, detected in subsurface soil samples. A summary of frequencies of detection, range of detection limits, range of detected concentrations, arithmetic mean, and benchmark comparison values for the surface and subsurface soil samples are provided in Tables 6 and 7, respectively. The following describes the analytical results of the surface and subsurface soil samples.

Surface Soil Sample Analytical Results. VOCs were not detected in the surface soil samples. Target analytes detected in the surface soil samples consist of 13 SVOCs, 2 pesticides, and 9 metals. Nine SVOCs, acenaphthene, pentachlorophenol, phenanthrene, anthracene, benzo(a)anthracene, chrysene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and benzo(g,h,i)perylene were detected in the duplicate surface soil sample MPT-AA-SS01DUP (Table 2). Fluoranthene, pyrene, benzo(b)fluoranthene and benzo(k)fluoranthene were detected in the two surface soil samples and associated duplicate. Concentrations of these SVOCs were not detected in the background surface soil samples (Table 6).

Two pesticides (4,4'-DDE and 4,4'-DDT) were detected in the two surface soil samples and associated duplicate (Table 2). Concentrations of 4,4'-DDT were not detected in the background screening samples. Concentrations of 4,4'-DDE exceeded the arithmetic mean of the concentration detected in background samples (Table 6).

Nine inorganic analytes, (arsenic, barium, beryllium, chromium, copper, lead, nickel, vanadium, and zinc) were detected at various combinations and concentrations in the surface soil samples (Table 3).

Concentrations of arsenic, beryllium, lead, and nickel were not detected in the background surface soil samples (Table 6). Concentrations of barium, chromium, copper, vanadium, and zinc exceeded the background screening values.

Subsurface Soil Sample Analytical Results. VOCs were not detected in the surface soil samples. Target analytes detected in the subsurface soil samples consist of 2 SVOCs, 1 pesticide, and 9 metals. Pentachlorophenol was detected in subsurface soil sample MPT-AA-BS01DUP and benzo(b)fluoranthene was detected in subsurface soil sample MPT-AA-BS01 (Table 4). Concentrations of these SVOCs were not detected in the background subsurface soil samples (Table 7).

4,4'-DDE was detected in subsurface soil MPT-AA-BS01 and its associated duplicate (Table 4). The detected concentration of 4,4'-DDE is less than the mean of the concentration detected in background samples (Table 7).

Nine inorganic analytes, (arsenic, barium, beryllium, chromium, copper, lead, mercury, vanadium, and zinc) were detected at various combinations and concentrations in the subsurface soil samples (Table 5). Zinc exceeded its background screening value (Table 7).

PRELIMINARY RISK EVALUATION

The target analytes detected in the environmental samples were compared to the background screening values computed from station-wide background surface and subsurface soil samples (ABB-ES, 1995), benchmark values from USEPA Region III risk based concentrations (RBCs) (USEPA, 1995), and residential and industrial benchmark values from the Florida Department of Environmental Protection (FDEP) Soil Cleanup Goals for Florida (FDEP, 1995).

Concentrations of analytes detected in the surface soil samples were compared to a residential exposure for the USEPA Region III RBCs, and residential and industrial worker exposures for FDEP soil cleanup goals. Concentrations of analytes detected in the subsurface soil samples were compared to an industrial exposure for the USEPA Region III RBCs, and residential and industrial worker exposures for FDEP soil cleanup goals.

Each of the benchmarks provided in Tables 6 and 7 are human health based and represent the lower of either a noncarcinogenic hazard index (HI) where, for noncarcinogens, values less than 1 represent a concentration at which noncarcinogenic effects are not likely, or, for a carcinogen, an excess lifetime cancer risk of 1×10^{-6} , which represents a chance of 1 in 1,000,000 for an adverse carcinogenic effect for a continuous lifetime exposure. The concentrations of noncarcinogens listed for the USEPA Region III RBCs residential exposure scenario correspond to an HI of 0.1 whereas the State of Florida soil cleanup goals are based on an HI of 1. The concentrations for carcinogens for both USEPA Region III RBCs and FDEP soil cleanup goals are at 1×10^{-6} .

The FDEP recommends that risk management goals which are protective of human health should be established at 1×10^{-6} for carcinogens, and an HI of 1 for noncarcinogens. Continuous lifetime exposure in the range of 1×10^{-4} (a chance of 1 in 10,000 for an adverse carcinogenic effect for a continuous lifetime exposure) to 1×10^{-6} represents concentrations that are considered by the USEPA to be protective of human health (Federal National Oil and Hazard Substances Pollution Contingency Plan [NCP], Final Rule, [40 CFR, Part 300]).

Surface Soil Samples. Benzo(a)pyrene was detected at concentrations that exceeded its USEPA Region III RBCs and FDEP soil cleanup goal (residential exposure only) benchmarks, but not the industrial

FDEP soil cleanup goal (Table 6). Currently, there are no USEPA Region III RBCs established for the SVOCs, benzo(g,h,i)perylene and phenanthrene; however, there are FDEP soil cleanup goals for residential and industrial exposures which were not exceeded.

Pesticides were not detected at concentrations that exceed their respective benchmarks (Table 6).

Arsenic and beryllium were detected at concentrations that exceed their respective USEPA Region III RBC and FDEP soil cleanup goal (residential exposure only); however, the concentrations detected did not exceed their respective industrial FDEP soil cleanup goal (Table 6).

The excess lifetime carcinogenic human health risk (surface soils) was estimated for analytes that exceeded the benchmarks (benzo(a)pyrene, arsenic, and beryllium) by comparison of the maximum detected value (Table 8) with the estimated 1×10^{-6} cancer risk values from the USEPA Region III RBCs (residential exposure) and the FDEP soil cleanup goals (residential and industrial exposure) (Table 8). This assessment suggests that hypothetical residential and industrial exposures are likely to be within the risk management range of 1×10^{-4} to 1×10^{-6} that is acceptable to the USEPA for each comparison. The assessment also suggests that the hypothetical residential and industrial exposures based on the USEPA Region III RBC and the FDEP soil cleanup goal are likely to be slightly above or greater than the FDEP risk management goal of 1×10^{-6} .

Subsurface Soil Samples. SVOCs and pesticides were not detected at concentrations that exceed their respective benchmarks (Table 7). Arsenic was detected at concentrations that exceed the hypothetical residential FDEP soil cleanup goal; however, the concentration detected did not exceed the Region III or FDEP industrial exposure benchmark values.

An industrial exposure excess lifetime carcinogenic human health risk for subsurface soils was estimated for each analyte that exceeded the residential benchmark(s) by comparison of the maximum detected value (Table 9) to the REGION III and FDEP industrial exposure benchmark(s). Based on this comparison the excess lifetime cancer risk for arsenic is estimated to be less than the USEPA and FDEP risk management goals.

RECOMMENDATIONS

No further investigation is recommended at this time for this site based on the following rationale.

- The results suggest that the Black Beauty™ does not meet the definition of a RCRA-characteristic hazardous waste and would not likely be a source of inorganics that may leach and migrate to groundwater.
- Noncarcinogenic risks were not identified for surface or subsurface soil by comparison of the analytical data to the risk-based screening values for residential and industrial exposure scenarios.
- Volatile organic analytes were not detected in the surface and subsurface soil samples.
- Pesticides were not detected in the surface soil samples at concentrations that exceed the human health-based screening criteria for residential and industrial exposure scenarios.
- Concentrations of benzo(a)anthracene, arsenic, and beryllium in the surface soil samples exceeded the hypothetical residential exposure scenarios for USEPA Region III RBCs and

the FDEP soil cleanup goals but did not exceed the industrial worker exposure scenario for the FDEP soil cleanup goal.

- An estimate of the risk (Table 8) associated with the residential exposure for surface soil suggests that the excess lifetime cancer risk for the hypothetical surface soil pathway is within the range (1×10^{-4} to 1×10^{-6}) that is acceptable to the USEPA and is slightly above or exceeds the risk management level (1×10^{-6}) that is recognized by FDEP.
- Semivolatile organics and pesticides were not detected in the subsurface soil samples at concentrations that exceed the human health-based screening criteria for residential and industrial exposure scenarios.
- Concentrations of one inorganic analyte (arsenic) exceed a hypothetical residential exposure scenario for subsurface soil (USEPA Region III RBCs and the FDEP Soil Cleanup Goal) but did not exceed screening values for the USEPA Region III RBCs or FDEP industrial worker exposure scenarios.
- An estimate of the risk (Table 9) associated with a hypothetical industrial exposure for arsenic in subsurface soil suggests that the excess lifetime cancer risk for the pathway is less than the USEPA and FDEP risk management goals.

This recommendation is based on the analytical results of surface soil samples collected for this assessment and comparison to human health-based benchmarks. Under current use, the industrial exposure scenario will not likely change in the foreseeable future; therefore, the recommendation and assumptions are considered to be consistent with FDEP's risk management goal and the risk range accepted by the USEPA.

If you have any questions or comments concerning this information, or should any additional information become available for this site which would affect this recommendation please contact us.

Sincerely,

ABB Environmental Services, Inc.


Francis K. Lesesne, P.G.
Technical Lead


Terry Hansen, P.G.
Project Manager

cc: Cheryl Mitchell, NAVSTA Mayport

ATTACHMENT A
FIGURES

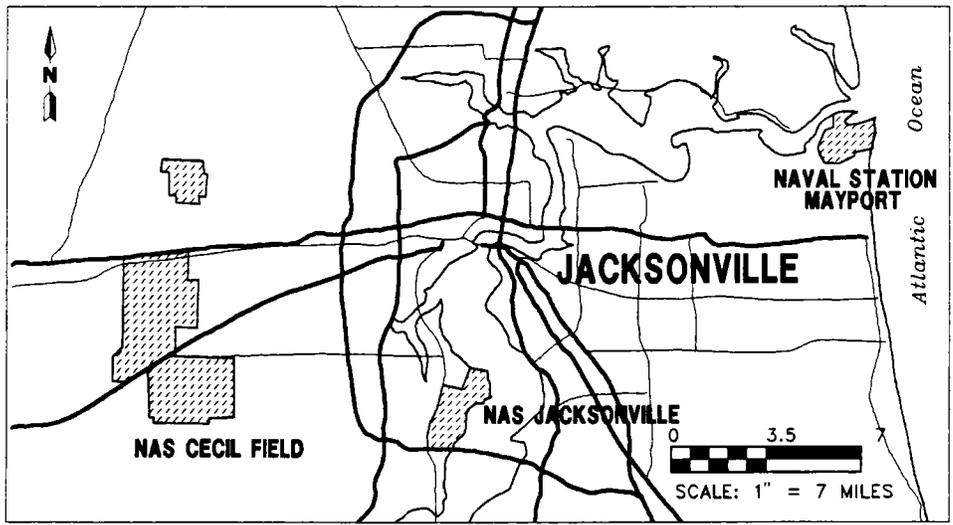
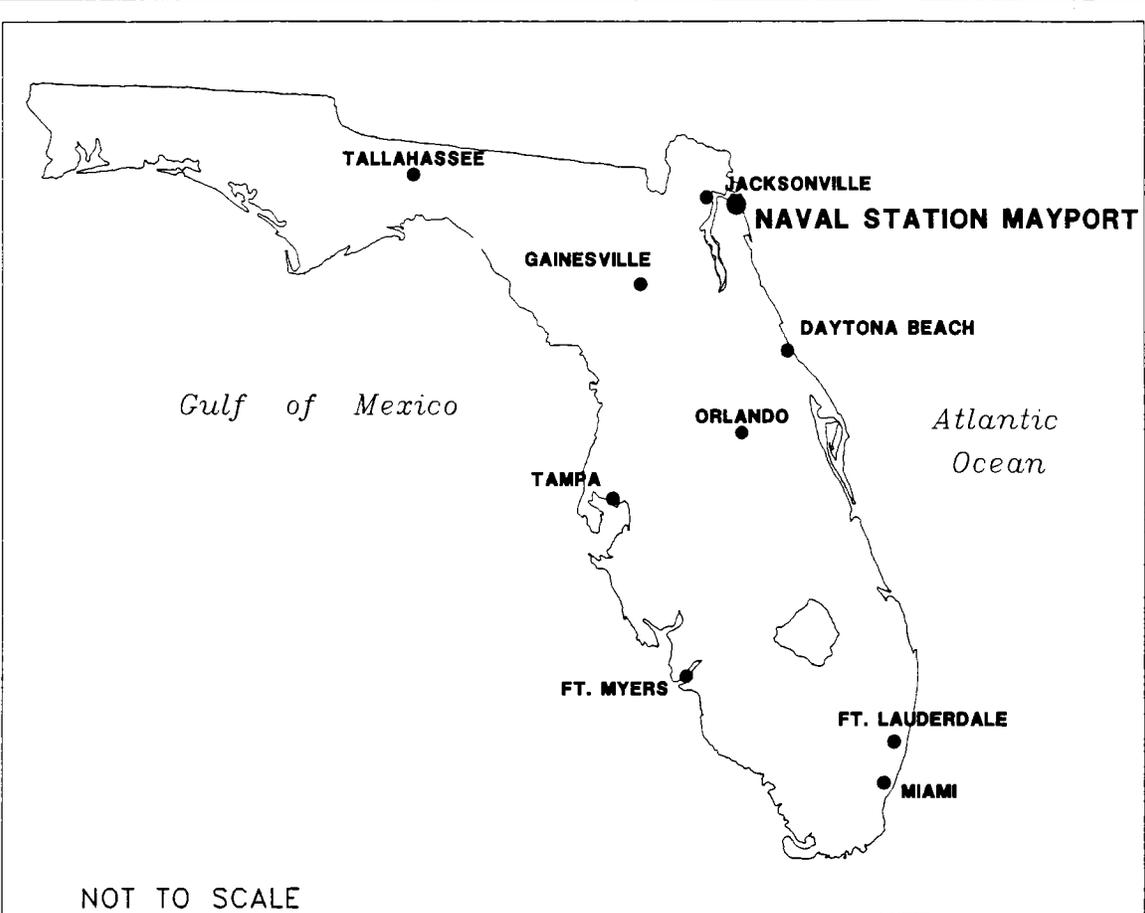


FIGURE 1
FACILITY LOCATION MAP



AIRCRAFT DISPLAY AREA
SAMPLING VISIT REPORT

U.S. NAVAL STATION
MAYPORT, FLORIDA

H:\9500\002200\NP-GLC-JMK\10-13-95

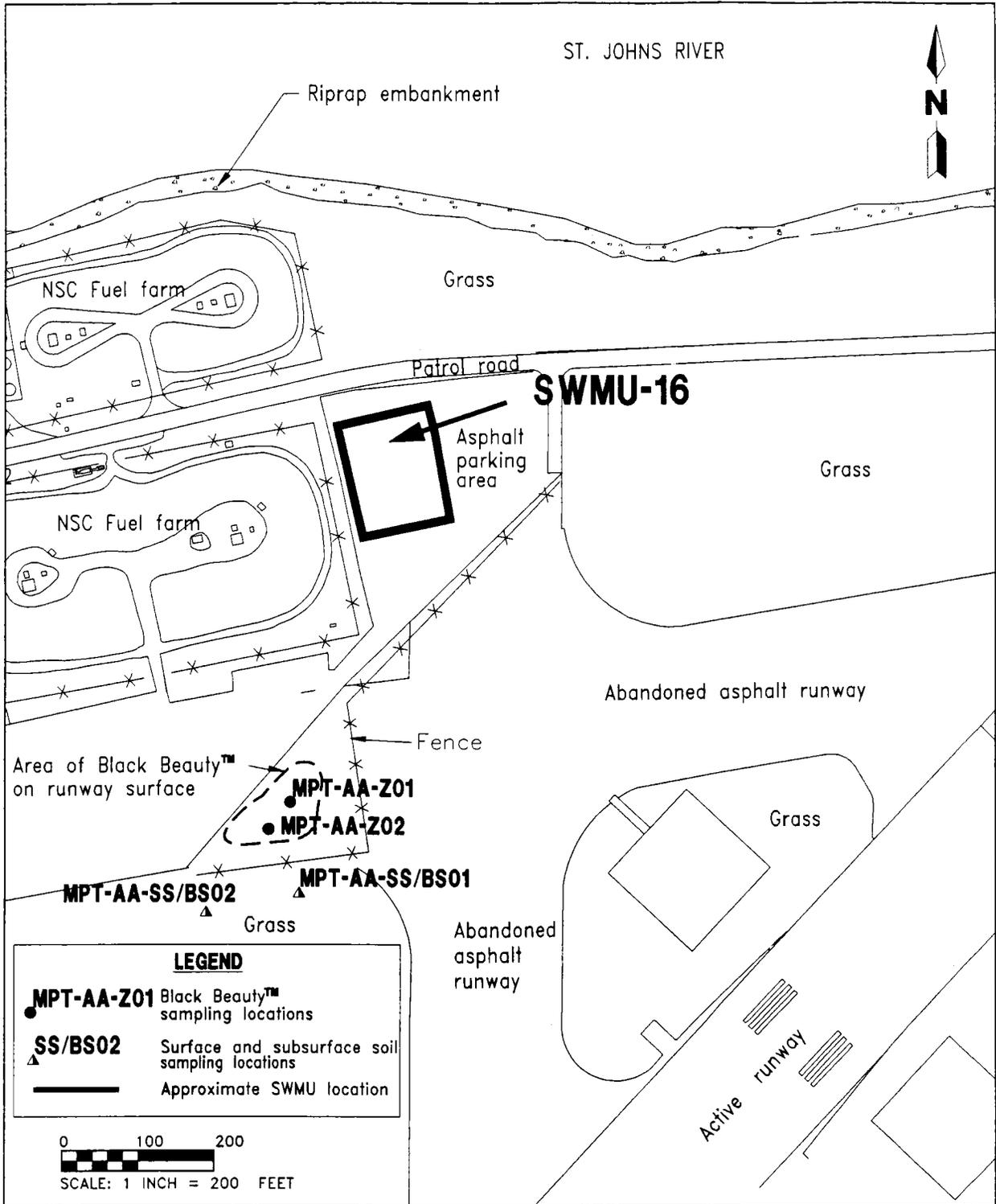


FIGURE 2
BLACK BEAUTY™ AND SURFACE AND SUBSURFACE SOIL SAMPLE LOCATIONS



**AIRCRAFT DISPLAY AREA
 SAMPLING VISIT REPORT**

**U.S. NAVAL STATION
 MAYPORT, FLORIDA**

ATTACHMENT B

TABLES

**Table 1
Inorganic Analytes by TCLP Analysis - Black Beauty Samples
Collected from the Aircraft Display Area**

Solid Waste Management Unit Assessment Report
Aircraft Display Area
U.S. Naval Station
Mayport, Florida

| Sample Matrix: | | Black Beauty | Black Beauty | | |
|--|-------------|------------------|----------------------------|---------------|---------------|
| Location/Sample No.: | | AAZ001 | AAZ002 | | |
| Date Sampled: | | 30-June-94 | 30-June-94 | | |
| CAS RN | Common Name | Regulatory Level | Laboratory Detection Limit | Concentration | Concentration |
| 7440-38-2 | Arsenic | 5.0 | 0.015 | < 0.015 | < 0.015 |
| 7440-39-3 | Barium | 100.0 | 0.0010 | 0.35 | 0.33 |
| 7440-43-9 | Cadmium | 1.0 | 0.0010 | 0.0016 | 0.0028 |
| 7440-47-3 | Chromium | 5.0 | 0.0030 | < 0.0030 | < 0.0030 |
| 7439-92-1 | Lead | 5.0 | 0.025 | < 0.025 | < 0.025 |
| 7439-97-6 | Mercury | 0.2 | 0.0002 | < 0.0002 | < 0.0002 |
| 7782-49-2 | Selenium | 1.0 | 0.035 | < 0.035 | < 0.035 |
| 7440-22-4 | Silver | 5.0 | 0.0020 | < 0.0020 | < 0.0020 |
| Notes: Concentrations are reported in milligrams per liter. TCLP = toxicity characteristic leachate procedure. CAS RN = chemical abstract service registry number. | | | | | |

Table 2
Organic Analytes Detected in Surface Soil Samples
at Aircraft Display Area

Solid Waste Management Unit Assessment Report
Aircraft Display Area
U.S. Naval Station
Mayport, Florida

| | | | |
|---|-------------|-------------|-------------|
| Analytical Batch No.: | R8272 | R8272 | R8272 |
| Sample Matrix: | Soil | Soil | Soil |
| Sample Location: | MPT-AA-SS01 | MPT-AA-SS01 | MPT-AA-SS02 |
| Sample No.: | AASS001 | AASS001Dup | AASS002 |
| Date Sampled: | 30-JUN-94 | 30-JUN-94 | 30-JUN-94 |
| Sample Depth (ft bls): | 0 to 1 | 0 to 1 | 0 to 1 |
| Semivolatile Analytes ($\mu\text{g}/\text{kg}$) | | | |
| Acenaphthene | -- | 97 J | -- |
| Pentachlorophenol | -- | 170 J | -- |
| Phenanthrene | -- | 680 J | -- |
| Anthracene | -- | 130 J | -- |
| Fluoranthene | 120 J | 1,200 | 110 J |
| Pyrene | 130 J | 930 J | -- |
| Benzo(a)anthracene | -- | 550 J | -- |
| Chrysene | -- | 620 J | -- |
| Benzo(b)fluoranthene | 130 J | 920 J | 160 J |
| Benzo(k)fluoranthene | 140 J | 460 J | 74 J |
| Benzo(a)pyrene | -- | 470 J | -- |
| Indeno(1,2,3-cd)pyrene | -- | 290 J | -- |
| Benzo(g,h,i)perylene | -- | 180 J | -- |
| Pesticides and PCBs ($\mu\text{g}/\text{kg}$) | | | |
| 4,4-DDE | 17 | 12 | 1.4 |
| 4,4-DDT | 7.9 | 6.3 | 1.8 |
| Notes: ft bls = feet below land surface. $\mu\text{g}/\text{kg}$ = microgram per kilogram. -- = no analytes detected. J = estimated value. PCBs = polychlorinated biphenyls. DDE = dichlorodiphenyldichloroethene. DDT = dichlorodiphenyltrichloroethane. | | | |

Table 3
Inorganic Analytes Detected in Surface Soil Samples at
Aircraft Display Area

Solid Waste Management Unit Assessment Report
Aircraft Display Area
U.S. Naval Station
Mayport, Florida

| | | | |
|---|-------------|-------------|-------------|
| Analytical Batch No.: | R8272 | R8272 | R8272 |
| Sample Matrix: | Soil | Soil | Soil |
| Sample Location: | MPT-AA-SS01 | MPT-AA-SS01 | MPT-AA-SS01 |
| Sample No.: | AASS001 | AASS001Dup | AASS002 |
| Date Sampled: | 30-JUN-94 | 30-JUN-94 | 30-JUN-94 |
| Sample Depth (ft bls): | 0 to 1 | 0 to 1 | 0 to 1 |
| Inorganic analytes (mg/kg) | | | |
| Arsenic | 1.6 J | 1.4 J | 2.5 J |
| Barium | 13.2 J | 10 J | 5.9 J |
| Beryllium | 0.3 J | 0.17 J | -- |
| Chromium | 8.5 | 4.4 | 1.3 J |
| Copper | 5.8 | 3.5 J | 2.9 J |
| Lead | 29 J | 9.5 J | 2.5 J |
| Nickel | 2.2 J | 2.4 J | -- |
| Vanadium | 6.7 J | 5.9 J | 3.4 J |
| Zinc | 27.2 J | 18.7 J | 9 J |
| Notes: ft/bls = feet below land surface. mg/kg = milligram per kilogram. J = estimated value. -- = no analytes detected. | | | |

Table 4
Organic Analytes Detected in Subsurface Soil Samples at
Aircraft Display Area

Solid Waste Management Unit Assessment Report
Aircraft Display Area
U.S. Naval Station
Mayport, Florida

| | | | |
|--|--|-------------|-------------|
| Analytical Batch No.: | R8272 | R8272 | R8272 |
| Sample Matrix: | Soil | Soil | Soil |
| Sample Location: | MPT-AA-BS01 | MPT-AA-BS01 | MPT-AA-BS02 |
| Sample No.: | AABS001 | AABS001D | AABS002 |
| Date Sampled: | 30-JUN-94 | 30-JUN-94 | 30-JUN-94 |
| Sample Depth (ft bls) | 1 to 2 | 1 to 2 | 1 to 2 |
| Semivolatiles Analytes ($\mu\text{g}/\text{kg}$) | | | |
| Pentachlorophenol | -- | 220 J | -- |
| Benzo(b)fluoranthene | 71 J | -- | -- |
| Pesticides and PCBs ($\mu\text{g}/\text{kg}$) | | | |
| 4,4-DDE | 2.2 | 2.4 | -- |
| Notes: | ft bls = feet below land surface. $\mu\text{g}/\text{kg}$ = microgram per kilogram. -- = no analytes detected. J = estimated value. PCBs = polychlorinated biphenyls. DDE = dichlorodiphenyldichloroethene. | | |

Table 5
Inorganic Analytes Detected in Subsurface Soil Samples at
Aircraft Display Area

Solid Waste Management Unit Assessment Report
Aircraft Display Area
U.S. Naval Station
Mayport, Florida

| | | | |
|---|-------------|-------------|-------------|
| Analytical Batch No.: | R8272 | R8272 | R8272 |
| Sample Matrix: | Soil | Soil | Soil |
| Sample Location: | MPT-AA-BS01 | MPT-AA-BS01 | MPT-AA-BS02 |
| Sample No.: | AABS001 | AABS001Dup | AABS002 |
| Date Sampled: | 30-JUN-94 | 30-JUN-94 | 30-JUN-94 |
| Sample Depth (ft bls) | 1 to 2 | 1 to 2 | 1 to 2 |
| Inorganic Analytes (mg/kg) | | | |
| Arsenic | -- | 1.1 J | 0.63 J |
| Barium | 8.8 J | 5 J | 3.7 J |
| Beryllium | 0.11 J | 0.11 J | -- |
| Chromium | 1.5 J | -- | -- |
| Copper | 1.1 J | 0.99 J | 0.42 J |
| Lead | 2 J | 2.2 | 0.74 |
| Mercury | -- | -- | 0.03 J |
| Vanadium | 2.6 J | 2.1 J | 1.9 J |
| Zinc | 7.8 | 7.1 J | -- |
| Notes: ft bls = feet below land surface. mg/kg = milligram per kilogram. -- = no analytes detected. J = estimated value. | | | |

Table 6
Preliminary Risk Screening of Surface Soil Samples from the Aircraft Display Area

Solid Waste Management Unit Assessment Report
Aircraft Display Area
U.S. Naval Station
Mayport, Florida

| Analyte | Frequency of Detection ¹ | Range of Detected Concentrations ² | Range of Reporting Limits | Mean of Detected Concentrations ³ | Background Screening Value ⁴ | Region III RBCs ⁵ Residential | FDEP Soil Cleanup Goals ⁶ Residential | FDEP Soil Cleanup Goals ⁶ Industrial | Exceeds Residential Benchmark (Yes/No) | Exceeds Industrial Benchmark (Yes/No) |
|---|-------------------------------------|---|---------------------------|--|---|--|--|---|--|---------------------------------------|
| Semivolatile Organic Compounds (µg/kg) | | | | | | | | | | |
| Acenaphthene | 1/2 | 221* | 345 - 690 | 221 | ND | 470,000 | 2,800,000 | 30,000,000 | No | No |
| Anthracene | 1/2 | 237.5* | 345 - 690 | 238 | ND | 2,300,000 | 20,000,000 | 300,000,000 | No | No |
| Benzo(a)-anthracene | 1/2 | 447.5* | 345 - 690 | 448 | ND | 880 | 1,400 | 4,900 | No | No |
| Benzo(a)-pyrene | 1/2 | 407.5* | 345 - 690 | 408 | ND | 88 | 100 | 500 | Yes | No |
| Benzo(b)-fluoranthene | 2/2 | 160 - 525* | NR | 343 | ND | 880 | 1,400 | 5,000 | No | No |
| Benzo(g,h,i)-perylene | 1/2 | 262.5 | 345 - 690 | 263 | ND | NS | 14,000 | 50,000 | No | No |
| Benzo(k)-fluoranthene | 2/2 | 74 - 300* | NR | 187 | ND | 8,800 | 14,000 | 48,000 | No | No |
| Chrysene | 1/2 | 482.5* | 345 - 690 | 483 | ND | 88,000 | 140,000 | 500,000 | No | No |
| Fluoranthene | 2/2 | 110 - 660* | NR | 385 | ND | 310,000 | 2,900,000 | 48,000,000 | No | No |
| Indeno(1,2,3-cd)pyrene | 1/2 | 317.5* | 345 - 690 | 318 | ND | 880 | 1,400 | 5,000 | No | No |
| Pentachlorophenol | 1/2 | 935* | 1,700 - 3,300 | 935 | ND | 5,300 | 5,400 | 12,000 | No | No |
| Phenanthrene | 1/2 | 512.5* | 345 - 690 | 513 | ND | NS | 1,700,000 | 21,000,000 | No | No |
| Pyrene | 1/2 | 530* | 345 - 690 | 530 | ND | 230,000 | 2,200,000 | 47,000,000 | No | No |
| See notes at end of table | | | | | | | | | | |

Table 6 (Continued)
Preliminary Risk Screening of Surface Soil Samples from the Aircraft Display Area

Solid Waste Management Unit Assessment Report
 Aircraft Display Unit
 U.S. Naval Station
 Mayport, Florida

| Analyte | Frequency of Detection ¹ | Range of Detected Concentrations ² | Range of Reporting Limits | Mean of Detected Concentrations ³ | Background Screening Value ⁴ | Region III RBCs ⁵ Residential | FDEP Soil Cleanup Goal ⁶ Residential | FDEP Soil Cleanup Goal ⁶ Industrial | Exceeds Residential Benchmark (Yes/No) | Exceeds Industrial Benchmark (Yes/No) |
|---|-------------------------------------|---|---------------------------|--|---|--|---|--|--|---------------------------------------|
| <u>Pesticides and PCBs (µg/kg)</u> | | | | | | | | | | |
| 4,4'-DDE | 2/2 | 1.4 - 14.5* | NR | 8 | 2.3 | 1,900 | 3,000 | 11,000 | No | No |
| 4,4'-DDT | 2/2 | 1.8 - 7.1* | NR | 4.5 | ND | 1,900 | 3,100 | 12,000 | No | No |
| <u>Inorganics (mg/kg)</u> | | | | | | | | | | |
| Arsenic | 2/2 | 1.5* - 2.5 | NR | 2 | ND | ⁷ 0.37 | 0.7 | 3.1 | Yes | No |
| Barium | 2/2 | 5.9 - 11.6* | NR | 8.8 | 5.6 | 550 | 5,200 | 84,000 | No | No |
| Beryllium | 1/2 | 0.23* | 0.06 - 0.06 | 0.24 | ND | 0.15 | 0.2 | 1.0 | Yes | No |
| Chromium | 2/2 | 1.3 - 6.45* | NR | 3.9 | 2.6 | ⁸ 39 | 290 | 430 | No | No |
| Copper | 2/2 | 2.9 - 4.65* | NR | 3.8 | 2.2 | 290 | 2,900 | 72,000 | No | No |
| Lead | 2/2 | 2.5 - 19.25* | NR | 10.9 | ND | ⁹ 400 | 500 | 1,000 | No | No |
| Nickel | 1/2 | 2.3* | 1.2 - 1.2 | 2.3 | ND | 160 | 1,500 | 26,000 | No | No |
| Vanadium | 2/2 | 3.4 - 6.3* | NR | 4.9 | 4 | 55 | 490 | 4,800 | No | No |
| Zinc | 2/2 | 9 - 22.95* | NR | 16 | 2.6 | 2,300 | 23,000 | 560,000 | No | No |
| See notes at the end of table. | | | | | | | | | | |

Table 7
Preliminary Risk Screening of Subsurface Soil Samples from the Aircraft Display Area

Solid Waste Management Unit Assessment Report
Aircraft Display Unit
U.S. Naval Station
Mayport, Florida

| Analyte | Frequency of Detection ¹ | Range of Detected Concentrations ² | Range of Reporting Limits | Mean of Detected Concentrations ³ | Background Screening Value ⁴ | Region III RBCs ⁵ Industrial | FDEP Soil Cleanup Goal ⁶ Residential | FDEP Soil Cleanup Goal ⁶ Industrial | Exceeds Residential Benchmark (Yes/No) | Exceeds Industrial Benchmark (Yes/No) |
|---|-------------------------------------|---|---------------------------|--|---|---|---|--|--|---------------------------------------|
| Semivolatile Organic Compounds (µg/kg) | | | | | | | | | | |
| Benzo(b)-fluoranthene | 1/2 | 210.5* | 350 - 690 | 211 | ND | 7,800 | 1,400 | 5,000 | No | No |
| Pentachlorophenol | 1/2 | 960* | 1,700 - 3,400 | 960 | ND | 48,000 | 5,400 | 12,000 | No | No |
| Pesticides and PCBs (µg/kg) | | | | | | | | | | |
| 4,4'-DDE | 1/2 | 2.3* | 0.71 - 0.71 | 2.3 | 3.5 | 17,000 | 3,000 | 11,000 | No | No |
| Inorganics (mg/kg) | | | | | | | | | | |
| Arsenic | 2/2 | 0.63 - 0.71* | 0.32 - 0.32 | 0.67 | 0.9 | ⁷ 3.3 | 0.7 | 3.1 | Yes | No |
| Barium | 2/2 | 3.7 - 6.9* | NR | 5.3 | 7.2 | 14,000 | 5,200 | 84,000 | No | No |
| Beryllium | 1/2 | 0.11* | 0.06 - 0.06 | 0.11 | 0.14 | 1.3 | 0.2 | 1.0 | No | No |
| Chromium | 1/2 | 0.89* | 0.275 - 0.55 | 0.89 | 3.4 | ⁸ 1,000 | 290 | 430 | No | No |
| Copper | 2/2 | 0.42 - 1.05* | NR | 0.73 | 3.6 | 7,600 | 2,900 | 72,000 | No | No |
| Lead | 2/2 | 0.74 - 2.1* | 0.6 - 0.6 | 1.4 | 2.8 | ⁹ 400 | 500 | 1,000 | No | No |
| Mercury | 1/2 | 0.03 | 0.03 - 0.03 | 0.03 | 0.06 | 61 | 23 | 480 | No | No |
| Vanadium | 2/2 | 1.9 - 2.35* | NR | 2.1 | 3.2 | 1,400 | 490 | 4,800 | No | No |
| Zinc | 1/2 | 7.45* | 2.9 - 2.9 | 7.5 | 4.8 | 61,000 | 23,000 | 560,000 | No | No |

See notes at end of table

Table 7
Preliminary Risk Screening of Subsurface Soil Samples from the Aircraft Display Area

Solid Waste Management Unit Assessment Report
Aircraft Display Unit
U.S. Naval Station
Mayport, Florida

| Analyte | Frequency of Detection ¹ | Range of Detected Concentrations ² | Range of Reporting Limits | Mean of Detected Concentrations ³ | Background Screening Value ⁴ | Region III RBCs ⁵ Industrial | FDEP Soil Cleanup Goal ⁶ Residential | FDEP Soil Cleanup Goal ⁶ Industrial | Exceeds Residential Benchmark (Yes/No) | Exceeds Industrial Benchmark (Yes/No) |
|---------|-------------------------------------|---|---------------------------|--|---|---|---|--|--|---------------------------------------|
|---------|-------------------------------------|---|---------------------------|--|---|---|---|--|--|---------------------------------------|

¹ Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected values, "R" qualifier).
² Asterisk values are the average of the detected concentrations in a sample and its duplicate. For duplicate samples having one nondetected values, 1/2 the Contract Required Quantitation Limit is used as a surrogate.

³ The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected, including values qualified as "J"; it does not include those samples where the analyte was not detected ("U" or "UJ" qualifiers) and rejected ("R" qualifier).

⁴ The background screening concentration is twice the average of detected concentrations for inorganic analytes in background samples. Organic values are only one time the mean of detected concentrations, and are included for comparison purposes only. Surface soil background samples are MPT-B-BS1, MPT-B-BS1DUP, MPT-B-BS4, MPT-B-BS5, MPT-B-BS6.

⁵ For all chemicals except the essential nutrients (calcium, iron, magnesium, potassium, and sodium), U.S. Environmental Protection Agency (USEPA) Region III risk-based screening concentrations (RBCs) for industrial surface soil exposure per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Risk-Based Screening (EPA/903/R-93-001) was used for screening. Actual values are taken from the USEPA Region III RBC Tables dated February 9, 1995 and are based on a cancer risk of 1×10^{-6} and for noncarcinogens an adjusted hazard quotient (HQ) of 0.1.

⁶ Values are taken from the Florida Department of Environmental Protection memorandum, Soil Cleanup Goals for Florida, dated September 27, 1995. The values are for either a residential or industrial worker soil exposure and are based on a cancer risk of 10^{-6} and for noncarcinogens a hazard quotient (HQ) of 1.

⁷ The risk based concentration is based on carcinogenic effects.

⁸ Chromium in hexavalent form.

⁹ No RBC is available for lead because of the lack of toxicity data. The value provided is based on USEPA's recommended target cleanup level for Superfund sites (USEPA, 1994).

Notes: Environmental samples included in this evaluation are MPT-AA-BS01, MPT-AA-BS01DUP and MPT-AA-BS02.

$\mu\text{g}/\text{kg}$ = micrograms per kilogram.

ND = analyte not detected in background surface soil sample.

PCBs = polychlorinated biphenyls.

4,4'-DDE = dichlorodiphenyldichloroethene.

NR = no reporting limits available.

Table 8
Estimated Human Health Risk Based on Maximum Values for
Surface Soil at the Aircraft Display Area

Solid Waste Management Unit Assessment Report
Aircraft Display Unit
U.S. Naval Station
Mayport, Florida

| Analyte | Maximum Detected Concentration ¹ | Residential Exposure | | | | Industrial Exposure | |
|---|---|-----------------------------------|--|-------------------------------------|--|-------------------------------------|---|
| | | USEPA Region III RBC ² | Estimated Residential Cancer Risk ³ | FDEP Soil Cleanup Goal ⁴ | Estimated Residential Cancer Risk ³ | FDEP Soil Cleanup Goal ⁴ | Estimated Industrial Cancer Risk ³ |
| Volatile Organic Compounds (µg/kg) | | | | | | | |
| No analytes exceeded screening criteria | | | | | | | |
| Semivolatile Organic Compounds (µg/kg) | | | | | | | |
| Benzo(a)pyrene | 408* | 88 | 4.6E-6 | 140 | 2.9E-6 | 500 | 8.1E-7 |
| Pesticides and PCBs (µg/kg) | | | | | | | |
| No analytes exceeded screening criteria | | | | | | | |
| Inorganics (mg/kg) | | | | | | | |
| Arsenic | 2.5 | 0.37 | 6.7E-6 | 0.7 | 3.5E-6 | 3.1 | 8.3E-7 |
| Beryllium | 0.23 | 0.15 | 1.5E-6 | 0.2 | 1.1E-6 | 1.0 | 2.3E-6 |
| Total Cancer Risk | | | 1.3E-5 | | 7.5E-6 | | 1.8E-6 |

¹ The maximum value is from Table 3, and represents either the maximum value detected for an analyte in an environmental sample or if marked with an asterisk "*" are the average for an environmental sample and associated duplicate (1/2 the Contract Required Quantitation Limit is used as a surrogate for nondetects ("U" or "UJ" qualified samples for environmental samples and duplicate pairs).

² U.S. Environmental Protection Agency (USEPA) Region III risk-based screening concentrations (RBCs) for residential surface soil exposure per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Risk-Based Screening [EPA/903/R-93-001]) was used for screening. Actual values are taken from the USEPA Region III RBC Tables dated February 9, 1995 and are based on a cancer risk of 1x10⁻⁶.

³ The cancer risk is an estimated value based on the assumptions used to determine the human health-based risk values.

⁴ Values are taken from the Florida Department of Environmental Protection (FDEP) memorandum, Soil Cleanup Goals for Florida, dated September 27, 1995. The values are for either a residential or industrial worker soil exposure and are based on a cancer risk of 10⁻⁶.

Notes: µg/kg = micrograms per kilogram.
mg/kg = milligram per kilogram.

Table 9
Estimated Human Health Risk Based on Maximum Values for
Subsurface Soil at the Aircraft Display Area

Solid Waste Management Unit Assessment Report
Aircraft Display Unit
U.S. Naval Station
Mayport, Florida

| Analyte | Maximum Detected Concentration ¹ | Industrial Exposure | | | |
|---|---|-----------------------------------|--|-------------------------------------|---|
| | | USEPA Region III RBC ² | Estimated Residential Cancer Risk ³ | FDEP Soil Cleanup Goal ⁴ | Estimated Industrial Cancer Risk ³ |
| Volatile Organic Compounds (µg/kg) | | | | | |
| No analytes exceeded screening criteria | | | | | |
| Semivolatile Organic Compounds (µg/kg) | | | | | |
| No analytes exceeded screening criteria | | | | | |
| Pesticides and PCBs (µg/kg) | | | | | |
| No analytes exceeded screening criteria | | | | | |
| Inorganics (mg/kg) | | | | | |
| Arsenic | 0.71 | 3.3 | 2.1E-7 | 3.1 | 2.3E-7 |
| Total Cancer Risk | | | 2.1E-7 | | 2.3E-7 |
| <p>¹ The maximum value is from Table 3, and represents either the maximum value detected for an analyte in an environmental sample or if marked with an asterisk "*" are the average for an environmental sample and associated duplicate (1/2 the Contract Required Quantitation Limit is used as a surrogate for nondetects ("U" or "UJ" qualified samples for environmental samples and duplicate pairs).</p> <p>² U.S. Environmental Protection Agency (USEPA) Region III risk-based screening concentrations (RBCs) for residential surface soil exposure per January 1993 guidance (Selecting Exposure Routes and Contaminants of Concern by Risk-Based Screening [EPA/903/R-93-001]) was used for screening. Actual values are taken from the USEPA Region III RBC Tables dated February 9, 1995 and are based on a cancer risk of 1x10⁻⁶.</p> <p>³ The cancer risk is an estimated value based on the assumptions used to determine the human health based risk values.</p> <p>⁴ Values are taken from the Florida Department of Environmental Protection memorandum, Soil Cleanup Goals for Florida, dated September 27, 1995. The values are for an industrial worker soil exposure and are based on a cancer risk of 1x10⁻⁶.</p> <p>Notes: µg/kg = micrograms per kilogram. mg/kg = milligram per kilogram.</p> | | | | | |

ATTACHMENT C
ANALYTICAL RESULTS

NAVSTA MAYPORT
RFA Soil Boring Data

| | | | | | | |
|--------------------|-----------|------------|-----------|-------|------------|----|
| Lab Sample Number: | R8272008 | | R8272009 | | R8272010 | |
| Site | RFADATA | | RFADATA | | RFADATA | |
| Locator | AABS001 | | AABS001D | | AABS002 | |
| Collect Date: | 30-JUN-94 | | 30-JUN-94 | | 30-JUN-94 | |
| | VALUE | QUAL UNITS | DL | VALUE | QUAL UNITS | DL |

| PESTICIDES/PCBs | ug/kg | | | | | | | | |
|---------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|
| alpha-BHC | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| beta-BHC | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 |
| delta-BHC | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| gamma-BHC (Lindane) | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| Heptachlor | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| Aldrin | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| Heptachlor epoxide | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| Endosulfan I | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| Dieldrin | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| 4,4-DDE | 2.2 | ug/kg | | 2.4 | ug/kg | | .71 U | ug/kg | .71 |
| Endrin | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 |
| Endosulfan II | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 |
| 4,4-DDD | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 |
| Endosulfan sulfate | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 |
| 4,4-DDT | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 |
| Methoxychlor | 2.9 U | ug/kg | 2.9 | 2.9 U | ug/kg | 2.9 | 2.8 U | ug/kg | 2.8 |
| Endrin aldehyde | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 |
| Endrin ketone | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 |
| Chlordane | 7.1 U | ug/kg | 7.1 | 7.1 U | ug/kg | 7.1 | 7.1 U | ug/kg | 7.1 |
| Chlorobenzilate | 21 U | ug/kg | 21 | 21 U | ug/kg | 21 | 21 U | ug/kg | 21 |
| Diallate | 43 U | ug/kg | 43 | 42 U | ug/kg | 42 | 42 U | ug/kg | 42 |
| Toxaphene | 35 U | ug/kg | 35 | 35 U | ug/kg | 35 | 35 U | ug/kg | 35 |
| Isodrin | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| Kepone | 43 U | ug/kg | 43 | 43 U | ug/kg | 43 | 42 U | ug/kg | 42 |
| Aroclor-1016 | 35 U | ug/kg | 35 | 35 U | ug/kg | 35 | 35 U | ug/kg | 35 |
| Aroclor-1221 | 71 U | ug/kg | 71 | 71 U | ug/kg | 71 | 71 U | ug/kg | 71 |
| Aroclor-1232 | 71 U | ug/kg | 71 | 71 U | ug/kg | 71 | 71 U | ug/kg | 71 |
| Aroclor-1242 | 35 U | ug/kg | 35 | 35 U | ug/kg | 35 | 35 U | ug/kg | 35 |
| Aroclor-1248 | 35 U | ug/kg | 35 | 35 U | ug/kg | 35 | 35 U | ug/kg | 35 |
| Aroclor-1254 | 17 U | ug/kg | 17 | 17 U | ug/kg | 17 | 17 U | ug/kg | 17 |
| Aroclor-1260 | 17 U | ug/kg | 17 | 17 U | ug/kg | 17 | 17 U | ug/kg | 17 |

U = NOT DETECTED R = RESULT IS REJECTED
J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

NAVSTA MAYPORT
RFA Surface Soil Data

| | | | | | | | | |
|--------------------|-----------|------|-----------|----|-------|-----------|-------|----|
| Lab Sample Number: | R8272005 | | R8272006 | | | R8272007 | | |
| Site | RFADATA | | RFADATA | | | RFADATA | | |
| Locator | AASS001 | | AASS001D | | | AASS002 | | |
| Collect Date: | 30-JUN-94 | | 30-JUN-94 | | | 30-JUN-94 | | |
| | VALUE | QUAL | UNITS | DL | VALUE | QUAL | UNITS | DL |

| SEMIVOLATILES | ug/kg | | | | | | | | |
|------------------------------|---------|-------|------|---------|-------|---------|---------|-------|------|
| N-Nitrosodimethylamine | 690 U | ug/kg | 690 | 690 UJ | ug/kg | 690 UJ | ug/kg | | |
| Phenol | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| Aniline | 690 UJ | ug/kg | | 690 UJ | ug/kg | | 690 UJ | ug/kg | |
| bis(2-Chloroethyl) ether | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| Benzyl Alcohol | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 2-Methylphenol | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| bis(2-Chloroisopropyl) ether | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| N-Nitroso-di-n-propylamine | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| Hexachloroethane | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| Nitrobenzene | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| Isophorone | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 2-Nitrophenol | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 2,4-Dimethylphenol | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| Benzoic acid | 3400 U | ug/kg | 3400 | 3300 UJ | ug/kg | 3300 UJ | ug/kg | | |
| bis(2-Chloroethoxy)methane | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 2,4-Dichlorophenol | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 1,2,4-Trichlorobenzene | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| Naphthalene | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 4-Chloroaniline | 690 UJ | ug/kg | | 690 UJ | ug/kg | | 690 UJ | ug/kg | |
| Hexachlorobutadiene | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 4-Chloro-3-methylphenol | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 2-Methylnaphthalene | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| Hexachlorocyclopentadiene | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 2,4,6-Trichlorophenol | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| Dimethylphthalate | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 2,4,5-Trichlorophenol | 3400 U | ug/kg | 3400 | 3300 U | ug/kg | 3300 | 3300 U | ug/kg | 3300 |
| 2-Chloronaphthalene | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 2-Nitroaniline | 3400 U | ug/kg | 3400 | 3300 U | ug/kg | 3300 | 3300 U | ug/kg | 3300 |
| Acenaphthylene | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 2,6-Dinitrotoluene | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 3-Nitroaniline | 3400 UJ | ug/kg | | 3300 UJ | ug/kg | | 3300 UJ | ug/kg | |
| Acenaphthene | 690 U | ug/kg | 690 | 97 J | ug/kg | | 690 U | ug/kg | 690 |
| 2,4-Dinitrophenol | 3400 UJ | ug/kg | | 3300 UJ | ug/kg | | 3300 UJ | ug/kg | |
| 4-Nitrophenol | 3400 U | ug/kg | 3400 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| Dibenzofuran | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 2,4-Dinitrotoluene | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| Diethylphthalate | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 4-Chlorophenyl-phenylether | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| Fluorene | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 4-Nitroaniline | 3400 U | ug/kg | 3400 | 3300 U | ug/kg | 3300 | 3300 U | ug/kg | 3300 |
| 4,6-Dinitro-2-methylphenol | 3400 UJ | ug/kg | | 3300 UJ | ug/kg | | 3300 UJ | ug/kg | |
| N-Nitrosodiphenylamine (1) | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 1,2-Diphenylhydrazine | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| 4-Bromophenyl-phenylether | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| Hexachlorobenzene | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| Pentachlorophenol | 3400 U | ug/kg | 3400 | 170 J | ug/kg | | 3300 U | ug/kg | 3300 |
| Phenanthrene | 690 U | ug/kg | 690 | 680 J | ug/kg | | 690 U | ug/kg | 690 |
| Anthracene | 690 U | ug/kg | 690 | 130 J | ug/kg | | 690 U | ug/kg | 690 |
| Di-n-Butylphthalate | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 | 690 U | ug/kg | 690 |
| Fluoranthene | 120 J | ug/kg | | 1200 | ug/kg | | 110 J | ug/kg | |

NAVSTA MAYPORT
RFA Surface Soil Data

Lab Sample Number:
Site
Locator
Collect Date:

R8272005
RFADATA
AASS001
30-JUN-94

R8272006
RFADATA
AASS001D
30-JUN-94

R8272007
RFADATA
AASS002
30-JUN-94

| | VALUE | QUAL | UNITS | DL | VALUE | QUAL | UNITS | DL | VALUE | QUAL | UNITS | DL |
|--------------------------------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|
| Pyrene | 130 | J | ug/kg | | 930 | | ug/kg | | 690 | U | ug/kg | 690 |
| Butylbenzylphthalate | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| 3,3'-Dichlorobenzidine | 1400 | U | ug/kg | 1400 | 1400 | U | ug/kg | 1400 | 1400 | U | ug/kg | 1400 |
| Benzo(a)anthracene | 690 | U | ug/kg | 690 | 550 | J | ug/kg | | 690 | U | ug/kg | 690 |
| Chrysene | 690 | U | ug/kg | 690 | 620 | J | ug/kg | | 690 | U | ug/kg | 690 |
| bis(2-Ethylhexyl)phthalate | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| Di-n-octylphthalate | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| Benzo(b)fluoranthene | 130 | J | ug/kg | | 920 | J | ug/kg | | 160 | J | ug/kg | |
| Benzo(k)fluoranthene | 140 | J | ug/kg | | 460 | J | ug/kg | | 74 | J | ug/kg | |
| Benzo(a)pyrene | 690 | U | ug/kg | 690 | 470 | J | ug/kg | | 690 | U | ug/kg | 690 |
| Indeno(1,2,3-cd)pyrene | 690 | U | ug/kg | 690 | 290 | J | ug/kg | | 690 | U | ug/kg | 690 |
| Dibenz(a,h)anthracene | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| Benzo(g,h,i)perylene | 690 | U | ug/kg | 690 | 180 | J | ug/kg | | 690 | UJ | ug/kg | |
| 2-Picoline | 3400 | U | ug/kg | 3400 | 3300 | U | ug/kg | 3300 | 3300 | U | ug/kg | 3300 |
| Methyl methanesulfonate | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| Ethyl methanesulfonate | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| Acetophenone | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| N-Nitrosopiperidine | 690 | UJ | ug/kg | | 690 | UJ | ug/kg | | 690 | UJ | ug/kg | |
| Phenyl-tert-butylamine | 3400 | U | ug/kg | 3400 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| 2,6-Dichlorophenol | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| N-Nitroso-di-n-butylamine | 690 | U | ug/kg | 690 | 690 | UJ | ug/kg | | 690 | UJ | ug/kg | |
| N-Nitrosodiethylamine | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| N-Nitrosopyrrolidine | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| Benzdine | 3400 | UJ | ug/kg | | 3300 | U | ug/kg | 3300 | 3300 | U | ug/kg | 3300 |
| 1,2,4,5-Tetrachlorobenzene | 3400 | U | ug/kg | 3400 | 3300 | U | ug/kg | 3300 | 3300 | U | ug/kg | 3300 |
| Pentachlorobenzene | 3400 | U | ug/kg | 3400 | 3300 | U | ug/kg | 3300 | 3300 | U | ug/kg | 3300 |
| 1-Naphthylamine | 3400 | UJ | ug/kg | | 3300 | U | ug/kg | 3300 | 3300 | U | ug/kg | 3300 |
| 2-Naphthylamine | 3400 | UJ | ug/kg | | 3300 | UJ | ug/kg | | 3300 | UJ | ug/kg | |
| 2,3,4,6-Tetrachlorophenol | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| Phenacetin | 690 | U | ug/kg | 690 | 690 | UJ | ug/kg | | 690 | UJ | ug/kg | |
| 4-Aminobiphenyl | 3400 | UJ | ug/kg | | 3300 | UJ | ug/kg | | 3300 | UJ | ug/kg | |
| Pentachloronitrobenzene | 3400 | U | ug/kg | 3400 | 3300 | U | ug/kg | 3300 | 3300 | U | ug/kg | 3300 |
| Pronamide | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| p-(Dimethylamino)azobenzene | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| 7,12-Dimethylbenz(A)Anthracene | 690 | U | ug/kg | 690 | 690 | UJ | ug/kg | | 690 | UJ | ug/kg | |
| 3-Methylcholanthrene | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| Pyridine | 3400 | U | ug/kg | 3400 | 3300 | U | ug/kg | 3300 | 3300 | U | ug/kg | 3300 |
| N-Nitrosomethylethylamine | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| N-Nitrosomorpholine | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| o-Toluidine | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| Hexachloropropene | 3400 | U | ug/kg | 3400 | 3300 | U | ug/kg | 3300 | 3300 | U | ug/kg | 3300 |
| p-Phenylenediamine | 34000 | U | ug/kg | 34000 | 33000 | U | ug/kg | 33000 | 33000 | U | ug/kg | 33000 |
| Safrole | 3400 | U | ug/kg | 3400 | 3300 | U | ug/kg | 3300 | 3300 | U | ug/kg | 3300 |
| Isosafrole | 3400 | U | ug/kg | 3400 | 3300 | U | ug/kg | 3300 | 3300 | U | ug/kg | 3300 |
| 1,4-Naphthoquinone | 69000 | UJ | ug/kg | | 69000 | UJ | ug/kg | | 69000 | UJ | ug/kg | |
| 1,3-Dinitrobenzene | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| 5-Nitro-o-toluidine | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| 1,3,5-Trinitrobenzene | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| 4-Nitroquinoline-1-oxide | 34000 | UJ | ug/kg | | 33000 | UJ | ug/kg | | 33000 | UJ | ug/kg | |
| Methapyrilene | 3400 | UJ | ug/kg | | 3300 | UJ | ug/kg | | 3300 | UJ | ug/kg | |
| 3,3'-Dimethylbenzidine | 690 | UJ | ug/kg | | 690 | UJ | ug/kg | | 690 | UJ | ug/kg | |
| Hexachlorophene | 34000 | UJ | ug/kg | | 33000 | UJ | ug/kg | | 33000 | UJ | ug/kg | |

NAVSTA MAYPORT
RFA Surface Soil Data

| | | | | | | | | | | | | |
|--------------------|-----------|------|-------|-----------|-------|------|-------|-----------|-------|------|-------|----|
| Lab Sample Number: | R8272005 | | | R8272006 | | | | R8272007 | | | | |
| Site | RFADATA | | | RFADATA | | | | RFADATA | | | | |
| Locator | AASS001 | | | AASS001D | | | | AASS002 | | | | |
| Collect Date: | 30-JUN-94 | | | 30-JUN-94 | | | | 30-JUN-94 | | | | |
| | VALUE | QUAL | UNITS | DL | VALUE | QUAL | UNITS | DL | VALUE | QUAL | UNITS | DL |

| | | | | | | | | | | | | |
|-------------------------|------|---|-------|------|------|---|-------|------|------|---|-------|------|
| Aramite | 3400 | U | ug/kg | 3400 | 3300 | U | ug/kg | 3300 | 3300 | U | ug/kg | 3300 |
| 2-Chlorophenol | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| 3- & 4-Methylphenol (2) | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |
| Hexachloropropene | 3400 | U | ug/kg | 3400 | 3300 | U | ug/kg | 3300 | 3300 | U | ug/kg | 3300 |
| 2-Acetylaminofluorene | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 | 690 | U | ug/kg | 690 |

U = NOT DETECTED R = RESULT IS REJECTED
 J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED
 THE ADDITIONAL LISTINGS OF RESULTS FOR 1,2-; 1,3-; AND 1,4-DICHLOROBENZENE WERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN.

NAVSTA MAYPORT
RFA Soil Boring Data

| | | | | | | | | | |
|--------------------|-----------|------------|-----------|-------|------------|----|-------|------------|----|
| Lab Sample Number: | R8272005 | | R8272006 | | R8272007 | | | | |
| Site | RFADATA | | RFADATA | | RFADATA | | | | |
| Locator | AASS001 | | AASS001D | | AASS002 | | | | |
| Collect Date: | 30-JUN-94 | | 30-JUN-94 | | 30-JUN-94 | | | | |
| | VALUE | QUAL UNITS | DL | VALUE | QUAL UNITS | DL | VALUE | QUAL UNITS | DL |

| PESTICIDES/PCBs | ug/kg | | | | | | | | |
|---------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|
| alpha-BHC | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| beta-BHC | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.6 U | ug/kg | 1.6 |
| delta-BHC | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| gamma-BHC (Lindane) | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| Heptachlor | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| Aldrin | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| Heptachlor epoxide | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| Endosulfan I | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| Dieldrin | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| 4,4-DDE | 17 | ug/kg | | 12 | ug/kg | | 1.4 | ug/kg | |
| Endrin | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.6 U | ug/kg | 1.6 |
| Endosulfan II | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.6 U | ug/kg | 1.6 |
| 4,4-DDD | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.6 U | ug/kg | 1.6 |
| Endosulfan sulfate | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.6 U | ug/kg | 1.6 |
| 4,4-DDT | 7.9 | ug/kg | | 6.3 | ug/kg | | 1.8 | ug/kg | |
| Methoxychlor | 2.8 U | ug/kg | 2.8 | 2.8 U | ug/kg | 2.8 | 2.8 U | ug/kg | 2.8 |
| Endrin aldehyde | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.6 U | ug/kg | 1.6 |
| Endrin ketone | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.6 U | ug/kg | 1.6 |
| Chlordane | 7 U | ug/kg | 7 | 7 U | ug/kg | 7 | 7 U | ug/kg | 7 |
| Chlorobenzilate | 21 U | ug/kg | 21 | 21 U | ug/kg | 21 | 21 U | ug/kg | 21 |
| Diallate | 42 U | ug/kg | 42 | 42 U | ug/kg | 42 | 42 U | ug/kg | 42 |
| Toxaphene | 35 U | ug/kg | 35 | 34 U | ug/kg | 34 | 34 U | ug/kg | 34 |
| Isodrin | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| Kepone | 42 U | ug/kg | 42 | 42 U | ug/kg | 42 | 42 U | ug/kg | 42 |
| Aroclor-1016 | 35 U | ug/kg | 35 | 34 U | ug/kg | 34 | 34 U | ug/kg | 34 |
| Aroclor-1221 | 70 U | ug/kg | 70 | 70 U | ug/kg | 70 | 70 U | ug/kg | 70 |
| Aroclor-1232 | 70 U | ug/kg | 70 | 70 U | ug/kg | 70 | 70 U | ug/kg | 70 |
| Aroclor-1242 | 35 U | ug/kg | 35 | 34 U | ug/kg | 34 | 34 U | ug/kg | 34 |
| Aroclor-1248 | 35 U | ug/kg | 35 | 34 U | ug/kg | 34 | 34 U | ug/kg | 34 |
| Aroclor-1254 | 17 U | ug/kg | 17 | 17 U | ug/kg | 17 | 17 U | ug/kg | 17 |
| Aroclor-1260 | 17 U | ug/kg | 17 | 17 U | ug/kg | 17 | 17 U | ug/kg | 17 |

U = NOT DETECTED R = RESULT IS REJECTED
J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

NAVSTA MAYPORT
RFA Surface Soil Data

| | | | | | | | | | | | | |
|--------------------|-----------|------|-------|-----------|-------|------|-------|-----------|-------|------|-------|----|
| Lab Sample Number: | R8272005 | | | R8272006 | | | | R8272007 | | | | |
| Site | RFADATA | | | RFADATA | | | | RFADATA | | | | |
| Locator | AASS001 | | | AASS001D | | | | AASS002 | | | | |
| Collect Date: | 30-JUN-94 | | | 30-JUN-94 | | | | 30-JUN-94 | | | | |
| | VALUE | QUAL | UNITS | DL | VALUE | QUAL | UNITS | DL | VALUE | QUAL | UNITS | DL |

INORGANICS (SOIL)

mg/kg

| | | | | | | | | | |
|-----------|--------|-------|-----|--------|-------|------|---------|-------|-----|
| Antimony | 1 U | mg/kg | 1 | 1 U | mg/kg | 1 | 1 U | mg/kg | 1 |
| Arsenic | 1.6 J | mg/kg | | 1.4 J | mg/kg | | 2.5 J | mg/kg | |
| Barium | 13.2 J | mg/kg | | 10 J | mg/kg | | 5.9 J | mg/kg | |
| Beryllium | .3 J | mg/kg | | .17 J | mg/kg | | .06 U | mg/kg | .06 |
| Cadmium | .21 U | mg/kg | .21 | .21 U | mg/kg | .21 | .21 U | mg/kg | .21 |
| Chromium | 8.5 | mg/kg | | 4.4 | mg/kg | | 1.3 J | mg/kg | |
| Cobalt | 1.5 U | mg/kg | 1.5 | 1.2 U | mg/kg | 1.2 | .65 U | mg/kg | .65 |
| Copper | 5.8 | mg/kg | | 3.5 J | mg/kg | | 2.9 J | mg/kg | |
| Cyanide | .14 U | mg/kg | .14 | .14 U | mg/kg | .14 | .14 U | mg/kg | .14 |
| Lead | .29 J | mg/kg | | .95 J | mg/kg | | 2.5 J | mg/kg | |
| Mercury | .03 U | mg/kg | .03 | .03 U | mg/kg | .03 | .03 U | mg/kg | .03 |
| Nickel | 2.2 J | mg/kg | | 2.4 J | mg/kg | | 1.2 U | mg/kg | 1.2 |
| Selenium | .63 UJ | mg/kg | | .62 UJ | mg/kg | | .62 UJ | mg/kg | |
| Silver | .44 U | mg/kg | .44 | .44 U | mg/kg | .44 | .44 U | mg/kg | .44 |
| Thallium | .13 U | mg/kg | .13 | .12 UJ | mg/kg | | .12 U | mg/kg | .12 |
| Tin | 3.7 U | mg/kg | 3.7 | 3.01 U | mg/kg | 3.01 | 3.01 UJ | mg/kg | |
| Vanadium | 6.7 J | mg/kg | | 5.9 J | mg/kg | | 3.4 J | mg/kg | |
| Zinc | 27.2 J | mg/kg | | 18.7 J | mg/kg | | 9 J | mg/kg | |

U = NOT DETECTED R = RESULT IS REJECTED
J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

NAVSTA MAYPORT
RFA Soil Boring Data

| | | | |
|--------------------|-----------|-----------|-----------|
| Lab Sample Number: | R8272008 | R8272009 | R8272010 |
| Site | RFADATA | RFADATA | RFADATA |
| Locator | AABS001 | AABS001D | AABS002 |
| Collect Date: | 30-JUN-94 | 30-JUN-94 | 30-JUN-94 |

| | | | | | | | | | | | |
|-------|------|-------|----|-------|------|-------|----|-------|------|-------|----|
| VALUE | QUAL | UNITS | DL | VALUE | QUAL | UNITS | DL | VALUE | QUAL | UNITS | DL |
|-------|------|-------|----|-------|------|-------|----|-------|------|-------|----|

| VOLATILES | ug/kg | | | | | | | | | | |
|-----------------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|
| Chloromethane | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg |
| Bromomethane | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg |
| Vinyl chloride | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg |
| Chloroethane | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg |
| Methylene chloride | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Acetone | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg |
| Carbon disulfide | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| 1,1-Dichloroethane | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| 1,1-Dichloroethene | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| 1,2-Dichloroethene (total) | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Chloroform | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| 1,2-Dichloroethane | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| 2-Butanone | 11 UJ | ug/kg | 11 | 11 UJ | ug/kg | 11 | 11 UJ | ug/kg | 11 | 11 UJ | ug/kg |
| 1,1,1-Trichloroethane | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Carbon tetrachloride | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Bromodichloromethane | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| 1,2-Dichloropropane | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| cis-1,3-Dichloropropene | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Trichloroethene | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Dibromochloromethane | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| 1,1,2-Trichloroethane | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Benzene | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| trans-1,3-Dichloropropene | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Bromoform | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| 4-Methyl-2-pentanone | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg |
| 2-Hexanone | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg |
| Tetrachloroethene | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| 1,1,2,2-Tetrachloroethane | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Toluene | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Chlorobenzene | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Ethylbenzene | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Styrene | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Xylenes (total) | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Dichlorodifluoromethane | 11 UJ | ug/kg | 11 | 11 UJ | ug/kg | 11 | 11 UJ | ug/kg | 11 | 11 UJ | ug/kg |
| Trichlorofluoromethane | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| 1,3-Dichlorobenzene | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Acrolein | 110 U | ug/kg | 110 | 110 U | ug/kg | 110 | 110 U | ug/kg | 110 | 110 U | ug/kg |
| Iodomethane | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg |
| 1,4-Dichlorobenzene | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Acrylonitrile | 110 U | ug/kg | 110 | 110 U | ug/kg | 110 | 110 U | ug/kg | 110 | 110 U | ug/kg |
| Dibromomethane | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| 1,2-Dichlorobenzene | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| 2-Chloroethylvinylether | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg |
| Ethyl methacrylate | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| 1,2,3-Trichloropropane | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| trans-1,4-Dichloro-2-butene | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| Isobutyl alcohol | 210 R | ug/kg | 210 | 210 R | ug/kg | 210 | 210 R | ug/kg | 210 | 210 R | ug/kg |
| 1,1,1,2-Tetrachloroethane | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |
| 1,2-Dibromo-3-chloropropane | 11 UJ | ug/kg | 11 | 11 UJ | ug/kg | 11 | 11 UJ | ug/kg | 11 | 11 UJ | ug/kg |
| 1,2-Dibromoethane | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg |

NAVSTA MAYPORT
RFA Soil Boring Data

| | | | | | | | | | |
|--------------------|-----------|------|-------|-----------|-------|------|-----------|----|-------|
| Lab Sample Number: | R8272008 | | | R8272009 | | | R8272010 | | |
| Site | RFADATA | | | RFADATA | | | RFADATA | | |
| Locator | AABS001 | | | AABS001D | | | AABS002 | | |
| Collect Date: | 30-JUN-94 | | | 30-JUN-94 | | | 30-JUN-94 | | |
| | VALUE | QUAL | UNITS | DL | VALUE | QUAL | UNITS | DL | VALUE |
| | | | | | | | | | |

| | | | | | | | | | | | |
|---------------------|-----|----|-------|-----|-----|----|-------|-----|-----|----|-------|
| 1,4-Dioxane | 210 | R | ug/kg | | 210 | R | ug/kg | | 210 | R | ug/kg |
| 3-Chloropropene | 5 | UJ | ug/kg | | 5 | UJ | ug/kg | | 5 | UJ | ug/kg |
| Acetonitrile | 110 | U | ug/kg | 110 | 110 | U | ug/kg | 110 | 110 | U | ug/kg |
| Chloroprene | 210 | U | ug/kg | 210 | 210 | U | ug/kg | 210 | 210 | U | ug/kg |
| Methacrylonitrile | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg |
| Methyl methacrylate | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 | 11 | U | ug/kg |
| Pentachloroethane | 11 | UJ | ug/kg | | 11 | UJ | ug/kg | | 11 | UJ | ug/kg |
| Propionitrile | 110 | UJ | ug/kg | | 110 | UJ | ug/kg | | 110 | UJ | ug/kg |
| Vinyl acetate | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 | 11 | U | ug/kg |

U = NOT DETECTED R = RESULT IS REJECTED
 J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED
 THE ADDITIONAL LISTINGS OF RESULTS FOR 1,2-; 1,3-; AND 1,4-DICHLOROBENZENE WERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN.

NAVSTA MAYPORT
RFA Soil Boring Data

Lab Sample Number:
Site
Locator
Collect Date:

R8272008
RFADATA
AABS001
30-JUN-94

R8272009
RFADATA
AABS001D
30-JUN-94

R8272010
RFADATA
AABS002
30-JUN-94

VALUE QUAL UNITS DL VALUE QUAL UNITS DL VALUE QUAL UNITS DL

| | VALUE | QUAL | UNITS | DL | VALUE | QUAL | UNITS | DL | VALUE | QUAL | UNITS | DL |
|-----------------------------|-------|------|-------|-----|-------|------|-------|-----|-------|------|-------|-----|
| VOLATILES | | | | | | | | | | | | |
| ug/kg | | | | | | | | | | | | |
| Chloromethane | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 |
| Bromomethane | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 |
| Vinyl chloride | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 |
| Chloroethane | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 |
| Methylene chloride | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Acetone | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 |
| Carbon disulfide | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| 1,1-Dichloroethane | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| 1,1-Dichloroethene | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| 1,2-Dichloroethene (total) | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Chloroform | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| 1,2-Dichloroethane | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| 2-Butanone | 11 | UJ | ug/kg | | 11 | UJ | ug/kg | | 11 | UJ | ug/kg | |
| 1,1,1-Trichloroethane | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Carbon tetrachloride | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Bromodichloromethane | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| 1,2-Dichloropropane | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| cis-1,3-Dichloropropene | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Trichloroethene | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Dibromochloromethane | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| 1,1,2-Trichloroethane | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Benzene | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| trans-1,3-Dichloropropene | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Bromoform | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| 4-Methyl-2-pentanone | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 |
| 2-Hexanone | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 |
| Tetrachloroethene | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| 1,1,2,2-Tetrachloroethane | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Toluene | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Chlorobenzene | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Ethylbenzene | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Styrene | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Xylenes (total) | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Dichlorodifluoromethane | 11 | UJ | ug/kg | | 11 | UJ | ug/kg | | 11 | UJ | ug/kg | |
| Trichlorofluoromethane | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| 1,3-Dichlorobenzene | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Acrolein | 110 | U | ug/kg | 110 | 110 | U | ug/kg | 110 | 110 | U | ug/kg | 110 |
| Iodomethane | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 |
| 1,4-Dichlorobenzene | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Acrylonitrile | 110 | U | ug/kg | 110 | 110 | U | ug/kg | 110 | 110 | U | ug/kg | 110 |
| Dibromomethane | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| 1,2-Dichlorobenzene | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| 2-Chloroethylvinylether | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 | 11 | U | ug/kg | 11 |
| Ethyl methacrylate | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| 1,2,3-Trichloropropane | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| trans-1,4-Dichloro-2-butene | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| Isobutyl alcohol | 210 | R | ug/kg | | 210 | R | ug/kg | | 210 | R | ug/kg | |
| 1,1,1,2-Tetrachloroethane | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |
| 1,2-Dibromo-3-chloropropane | 11 | UJ | ug/kg | | 11 | UJ | ug/kg | | 11 | UJ | ug/kg | |
| 1,2-Dibromoethane | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 | 5 | U | ug/kg | 5 |

NAVSTA MAYPORT
RFA Soil Boring Data

| | | | | | | | | | |
|--------------------|-----------|------------|-----------|-------|------------|----|-------|------------|----|
| Lab Sample Number: | R8272008 | | R8272009 | | R8272010 | | | | |
| Site | RFADATA | | RFADATA | | RFADATA | | | | |
| Locator | AABS001 | | AABS001D | | AABS002 | | | | |
| Collect Date: | 30-JUN-94 | | 30-JUN-94 | | 30-JUN-94 | | | | |
| | VALUE | QUAL UNITS | DL | VALUE | QUAL UNITS | DL | VALUE | QUAL UNITS | DL |

| | | | | | | | | | |
|---------------------|--------|-------|-----|--------|-------|-----|--------|-------|-----|
| 1,4-Dioxane | 210 R | ug/kg | | 210 R | ug/kg | | 210 R | ug/kg | |
| 3-Chloropropene | 5 UJ | ug/kg | | 5 UJ | ug/kg | | 5 UJ | ug/kg | |
| Acetonitrile | 110 U | ug/kg | 110 | 110 U | ug/kg | 110 | 110 U | ug/kg | 110 |
| Chloroprene | 210 U | ug/kg | 210 | 210 U | ug/kg | 210 | 210 U | ug/kg | 210 |
| Methacrylonitrile | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 | 5 U | ug/kg | 5 |
| Methyl methacrylate | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 |
| Pentachloroethane | 11 UJ | ug/kg | | 11 UJ | ug/kg | | 11 UJ | ug/kg | |
| Propionitrile | 110 UJ | ug/kg | | 110 UJ | ug/kg | | 110 UJ | ug/kg | |
| Vinyl acetate | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 | 11 U | ug/kg | 11 |

U * NOT DETECTED R = RESULT IS REJECTED

J * ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

THE ADDITIONAL LISTINGS OF RESULTS FOR 1,2-; 1,3-; AND 1,4-DICHLOROBENZENE WERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN.

NAVSTA MAYPORT
RFA Soil Boring Data

Lab Sample Number:
Site
Locator
Collect Date:

R8272008
RFADATA
AABS001
30-JUN-94

R8272009
RFADATA
AABS001D
30-JUN-94

R8272010
RFADATA
AABS002
30-JUN-94

VALUE QUAL UNITS DL VALUE QUAL UNITS DL VALUE QUAL UNITS DL

SEMIVOLATILES

ug/kg

| | | | | | | | | | |
|-----------------------------|---------|-------|------|---------|-------|------|---------|-------|------|
| N-Nitrosodimethylamine | 700 UJ | ug/kg | | 700 UJ | ug/kg | | 690 UJ | ug/kg | |
| Phenol | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Aniline | 700 UJ | ug/kg | | 700 UJ | ug/kg | | 690 UJ | ug/kg | |
| bis(2-Chloroethyl) ether | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Benzyl Alcohol | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 2-Methylphenol | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| bis(2-Chloroisopropyl)ether | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| N-Nitroso-di-n-propylamine | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Hexachloroethane | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Nitrobenzene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Isophorone | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 2-Nitrophenol | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 2,4-Dimethylphenol | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Benzoic acid | 3400 UJ | ug/kg | | 3400 UJ | ug/kg | | 3400 UJ | ug/kg | |
| bis(2-Chloroethoxy)methane | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 2,4-Dichlorophenol | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 1,2,4-Trichlorobenzene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Naphthalene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 4-Chloroaniline | 700 UJ | ug/kg | | 700 UJ | ug/kg | | 690 UJ | ug/kg | |
| Hexachlorobutadiene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 4-Chloro-3-methylphenol | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 2-Methylnaphthalene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Hexachlorocyclopentadiene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 2,4,6-Trichlorophenol | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Dimethylphthalate | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 2,4,5-Trichlorophenol | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| 2-Chloronaphthalene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 2-Nitroaniline | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| Acenaphthylene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 2,6-Dinitrotoluene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 3-Nitroaniline | 3400 UJ | ug/kg | | 3400 UJ | ug/kg | | 3400 UJ | ug/kg | |
| Acenaphthene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 2,4-Dinitrophenol | 3400 UJ | ug/kg | | 3400 UJ | ug/kg | | 3400 UJ | ug/kg | |
| 4-Nitrophenol | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| Dibenzofuran | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 2,4-Dinitrotoluene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Diethylphthalate | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 4-Chlorophenyl-phenylether | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Fluorene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 4-Nitroaniline | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| 4,6-Dinitro-2-methylphenol | 3400 UJ | ug/kg | | 3400 UJ | ug/kg | | 3400 UJ | ug/kg | |
| N-Nitrosodiphenylamine (1) | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 1,2-Diphenylhydrazine | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 4-Bromophenyl-phenylether | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Hexachlorobenzene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Pentachlorophenol | 3400 U | ug/kg | 3400 | 220 J | ug/kg | | 3400 U | ug/kg | 3400 |
| Phenanthrene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Anthracene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Di-n-Butylphthalate | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Fluoranthene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |

NAVSTA MAYPORT
RFA Soil Boring Data

Lab Sample Number:
Site
Locator
Collect Date:

R8272008
RFADATA
AABS001
30-JUN-94

R8272009
RFADATA
AABS001D
30-JUN-94

R8272010
RFADATA
AABS002
30-JUN-94

VALUE QUAL UNITS DL VALUE QUAL UNITS DL VALUE QUAL UNITS DL

| | | | | | | | | | |
|--------------------------------|----------|-------|-------|----------|-------|-------|----------|-------|-------|
| Pyrene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Butylbenzylphthalate | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 3,3'-Dichlorobenzidine | 1400 U | ug/kg | 1400 | 1400 U | ug/kg | 1400 | 1400 U | ug/kg | 1400 |
| Benzo(a)anthracene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Chrysene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| bis(2-Ethylhexyl)phthalate | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Di-n-octylphthalate | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Benzo(b)fluoranthene | 71 J | ug/kg | 700 | 700 UJ | ug/kg | 700 | 690 UJ | ug/kg | 690 |
| Benzo(k)fluoranthene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Benzo(a)pyrene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Indeno(1,2,3-cd)pyrene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Dibenz(a,h)anthracene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Benzo(g,h,i)perylene | 700 UJ | ug/kg | 700 | 700 UJ | ug/kg | 700 | 690 UJ | ug/kg | 690 |
| 2-Picoline | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| Methyl methanesulfonate | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Ethyl methanesulfonate | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Acetophenone | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| N-Nitrosopiperidine | 700 UJ | ug/kg | 700 | 700 UJ | ug/kg | 700 | 690 UJ | ug/kg | 690 |
| Phenyl-tert-butylamine | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| 2,6-Dichlorophenol | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| N-Nitroso-di-n-butylamine | 700 UJ | ug/kg | 700 | 700 UJ | ug/kg | 700 | 690 UJ | ug/kg | 690 |
| N-Nitrosodiethylamine | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| N-Nitrosopyrrolidine | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Benzidine | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| 1,2,4,5-Tetrachlorobenzene | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| Pentachlorobenzene | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| 1-Naphthylamine | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| 2-Naphthylamine | 3400 UJ | ug/kg | 3400 | 3400 UJ | ug/kg | 3400 | 3400 UJ | ug/kg | 3400 |
| 2,3,4,6-Tetrachlorophenol | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Phenacetin | 700 UJ | ug/kg | 700 | 700 UJ | ug/kg | 700 | 690 UJ | ug/kg | 690 |
| 4-Aminobiphenyl | 3400 UJ | ug/kg | 3400 | 3400 UJ | ug/kg | 3400 | 3400 UJ | ug/kg | 3400 |
| Pentachloronitrobenzene | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| Pronamide | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| p-(Dimethylamino)azobenzene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 7,12-Dimethylbenz(A)Anthracene | 700 UJ | ug/kg | 700 | 700 UJ | ug/kg | 700 | 690 UJ | ug/kg | 690 |
| 3-Methylcholanthrene | 700 UJ | ug/kg | 700 | 700 UJ | ug/kg | 700 | 690 UJ | ug/kg | 690 |
| Pyridine | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| N-Nitrosomethylethylamine | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| N-Nitrosomorpholine | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| o-Toluidine | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Hexachloropropene | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| p-Phenylenediamine | 34000 U | ug/kg | 34000 | 34000 U | ug/kg | 34000 | 34000 U | ug/kg | 34000 |
| Safrole | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| Isosafrole | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| 1,4-Naphthoquinone | 70000 UJ | ug/kg | 70000 | 70000 UJ | ug/kg | 70000 | 69000 UJ | ug/kg | 69000 |
| 1,3-Dinitrobenzene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 5-Nitro-o-toluidine | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 1,3,5-Trinitrobenzene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 4-Nitroquinoline-1-oxide | 34000 UJ | ug/kg | 34000 | 34000 UJ | ug/kg | 34000 | 34000 UJ | ug/kg | 34000 |
| Methapyrilene | 3400 UJ | ug/kg | 3400 | 3400 UJ | ug/kg | 3400 | 3400 UJ | ug/kg | 3400 |
| 3,3'-Dimethylbenzidine | 700 UJ | ug/kg | 700 | 700 UJ | ug/kg | 700 | 690 UJ | ug/kg | 690 |
| Hexachlorophene | 34000 UJ | ug/kg | 34000 | 34000 UJ | ug/kg | 34000 | 34000 UJ | ug/kg | 34000 |

NAVSTA MAYPORT
RFA Soil Boring Data

| | | | | | | | | | |
|--------------------|-----------|------------|-----------|-------|------------|----|-------|------------|----|
| Lab Sample Number: | R8272008 | | R8272009 | | R8272010 | | | | |
| Site | RFADATA | | RFADATA | | RFADATA | | | | |
| Locator | AABS001 | | AABS001D | | AABS002 | | | | |
| Collect Date: | 30-JUN-94 | | 30-JUN-94 | | 30-JUN-94 | | | | |
| | VALUE | QUAL UNITS | DL | VALUE | QUAL UNITS | DL | VALUE | QUAL UNITS | DL |

| | | | | | | | | | |
|-------------------------|--------|-------|------|--------|-------|------|--------|-------|------|
| Aramite | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| 2-Chlorophenol | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| 3- & 4-Methylphenol (2) | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |
| Hexachloropropene | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 | 3400 U | ug/kg | 3400 |
| 2-Acetylaminofluorene | 700 U | ug/kg | 700 | 700 U | ug/kg | 700 | 690 U | ug/kg | 690 |

U = NOT DETECTED R = RESULT IS REJECTED
 J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED
 THE ADDITIONAL LISTINGS OF RESULTS FOR 1,2-; 1,3-; AND 1,4-DICHLOROBENZENE WERE GENERATED FROM THE SVOC (8270) ANALYTICAL RUN.

NAVSTA MAYPORT
RFA Soil Boring Data

| | | | | | | | | | |
|--------------------|-----------|------------|-----------|-------|------------|----|-------|------------|----|
| Lab Sample Number: | R8272008 | | R8272009 | | R8272010 | | | | |
| Site | RFADATA | | RFADATA | | RFADATA | | | | |
| Locator | AABS001 | | AABS001D | | AABS002 | | | | |
| Collect Date: | 30-JUN-94 | | 30-JUN-94 | | 30-JUN-94 | | | | |
| | VALUE | QUAL UNITS | DL | VALUE | QUAL UNITS | DL | VALUE | QUAL UNITS | DL |

| PESTICIDES/PCBs | ug/kg | | | | | | | | |
|---------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|
| alpha-BHC | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| beta-BHC | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 |
| delta-BHC | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| gamma-BHC (Lindane) | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| Heptachlor | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| Aldrin | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| Heptachlor epoxide | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| Endosulfan I | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| Dieldrin | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| 4,4-DDE | 2.2 U | ug/kg | 2.4 | 2.4 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| Endrin | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 |
| Endosulfan II | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 |
| 4,4-DDD | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 |
| Endosulfan sulfate | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 |
| 4,4-DDT | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 |
| Methoxychlor | 2.9 U | ug/kg | 2.9 | 2.9 U | ug/kg | 2.9 | 2.8 U | ug/kg | 2.8 |
| Endrin aldehyde | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 |
| Endrin ketone | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 |
| Chlordane | 7.1 U | ug/kg | 7.1 | 7.1 U | ug/kg | 7.1 | 7.1 U | ug/kg | 7.1 |
| Chlorobenzilate | 21 U | ug/kg | 21 | 21 U | ug/kg | 21 | 21 U | ug/kg | 21 |
| Dialate | 43 U | ug/kg | 43 | 42 U | ug/kg | 42 | 42 U | ug/kg | 42 |
| Toxaphene | 35 U | ug/kg | 35 | 35 U | ug/kg | 35 | 35 U | ug/kg | 35 |
| Isodrin | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 | .71 U | ug/kg | .71 |
| Kepone | 43 U | ug/kg | 43 | 43 U | ug/kg | 43 | 42 U | ug/kg | 42 |
| Aroclor-1016 | 35 U | ug/kg | 35 | 35 U | ug/kg | 35 | 35 U | ug/kg | 35 |
| Aroclor-1221 | 71 U | ug/kg | 71 | 71 U | ug/kg | 71 | 71 U | ug/kg | 71 |
| Aroclor-1232 | 71 U | ug/kg | 71 | 71 U | ug/kg | 71 | 71 U | ug/kg | 71 |
| Aroclor-1242 | 35 U | ug/kg | 35 | 35 U | ug/kg | 35 | 35 U | ug/kg | 35 |
| Aroclor-1248 | 35 U | ug/kg | 35 | 35 U | ug/kg | 35 | 35 U | ug/kg | 35 |
| Aroclor-1254 | 17 U | ug/kg | 17 | 17 U | ug/kg | 17 | 17 U | ug/kg | 17 |
| Aroclor-1260 | 17 U | ug/kg | 17 | 17 U | ug/kg | 17 | 17 U | ug/kg | 17 |

U = NOT DETECTED R = RESULT IS REJECTED
J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

NAVSTA MAYPORT
RFA Soil Boring Data

| | | | | | | | | | |
|--------------------|-----------|------------|-----------|-------|------------|----|-------|------------|----|
| Lab Sample Number: | R8272005 | | R8272006 | | R8272007 | | | | |
| Site | RFADATA | | RFADATA | | RFADATA | | | | |
| Locator | AASS001 | | AASS001D | | AASS002 | | | | |
| Collect Date: | 30-JUN-94 | | 30-JUN-94 | | 30-JUN-94 | | | | |
| | VALUE | QUAL UNITS | DL | VALUE | QUAL UNITS | DL | VALUE | QUAL UNITS | DL |

| PESTICIDES/PCBs | ug/kg | | | | | | | | |
|---------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|
| alpha-BHC | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| beta-BHC | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.6 U | ug/kg | 1.6 |
| delta-BHC | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| gamma-BHC (Lindane) | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| Heptachlor | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| Aldrin | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| Heptachlor epoxide | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| Endosulfan I | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| Dieldrin | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| 4,4-DDE | 17 | ug/kg | | 12 | ug/kg | | 1.4 | ug/kg | |
| Endrin | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.6 U | ug/kg | 1.6 |
| Endosulfan II | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.6 U | ug/kg | 1.6 |
| 4,4-DDD | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.6 U | ug/kg | 1.6 |
| Endosulfan sulfate | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.6 U | ug/kg | 1.6 |
| 4,4-DDT | 7.9 | ug/kg | | 6.3 | ug/kg | | 1.8 | ug/kg | |
| Methoxychlor | 2.8 U | ug/kg | 2.8 | 2.8 U | ug/kg | 2.8 | 2.8 U | ug/kg | 2.8 |
| Endrin aldehyde | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.6 U | ug/kg | 1.6 |
| Endrin ketone | 1.4 U | ug/kg | 1.4 | 1.4 U | ug/kg | 1.4 | 1.6 U | ug/kg | 1.6 |
| Chlordane | 7 U | ug/kg | 7 | 7 U | ug/kg | 7 | 7 U | ug/kg | 7 |
| Chlorobenzilate | 21 U | ug/kg | 21 | 21 U | ug/kg | 21 | 21 U | ug/kg | 21 |
| Diallate | 42 U | ug/kg | 42 | 42 U | ug/kg | 42 | 42 U | ug/kg | 42 |
| Toxaphene | 35 U | ug/kg | 35 | 34 U | ug/kg | 34 | 34 U | ug/kg | 34 |
| Isodrin | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 | .7 U | ug/kg | .7 |
| Kepone | 42 U | ug/kg | 42 | 42 U | ug/kg | 42 | 42 U | ug/kg | 42 |
| Aroclor-1016 | 35 U | ug/kg | 35 | 34 U | ug/kg | 34 | 34 U | ug/kg | 34 |
| Aroclor-1221 | 70 U | ug/kg | 70 | 70 U | ug/kg | 70 | 70 U | ug/kg | 70 |
| Aroclor-1232 | 70 U | ug/kg | 70 | 70 U | ug/kg | 70 | 70 U | ug/kg | 70 |
| Aroclor-1242 | 35 U | ug/kg | 35 | 34 U | ug/kg | 34 | 34 U | ug/kg | 34 |
| Aroclor-1248 | 35 U | ug/kg | 35 | 34 U | ug/kg | 34 | 34 U | ug/kg | 34 |
| Aroclor-1254 | 17 U | ug/kg | 17 | 17 U | ug/kg | 17 | 17 U | ug/kg | 17 |
| Aroclor-1260 | 17 U | ug/kg | 17 | 17 U | ug/kg | 17 | 17 U | ug/kg | 17 |

U = NOT DETECTED R = RESULT IS REJECTED
J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

NAVSTA MAYPORT
RFA Soil Boring Data

| | | | | | | | | |
|--------------------|------------|-----------|-----------|------------|----|-------|------------|----|
| Lab Sample Number: | R8272008 | R8272009 | R8272010 | | | | | |
| Site | RFADATA | RFADATA | RFADATA | | | | | |
| Locator | AABS001 | AABS001D | AABS002 | | | | | |
| Collect Date: | 30-JUN-94 | 30-JUN-94 | 30-JUN-94 | | | | | |
| VALUE | QUAL UNITS | DL | VALUE | QUAL UNITS | DL | VALUE | QUAL UNITS | DL |

| INORGANICS (SOIL) | mg/kg | | | | | | | | |
|-------------------|--------|-------|-----|--------|-------|-----|--------|-------|------|
| Antimony | 1.1 U | mg/kg | 1.1 | 1.1 UJ | mg/kg | | 1.1 U | mg/kg | 1.1 |
| Arsenic | .64 UJ | mg/kg | | 1.1 J | mg/kg | | .63 J | mg/kg | |
| Barium | 8.8 J | mg/kg | | 5 J | mg/kg | | 3.7 J | mg/kg | |
| Beryllium | .11 J | mg/kg | | .11 J | mg/kg | | .06 U | mg/kg | .06 |
| Cadmium | .21 U | mg/kg | .21 | .21 U | mg/kg | .21 | .21 U | mg/kg | .21 |
| Chromium | 1.5 J | mg/kg | | .55 U | mg/kg | .55 | .55 U | mg/kg | .55 |
| Cobalt | .71 U | mg/kg | .71 | .95 U | mg/kg | .95 | .65 U | mg/kg | .65 |
| Copper | 1.1 J | mg/kg | | .99 J | mg/kg | | .42 J | mg/kg | |
| Cyanide | .14 U | mg/kg | .14 | .14 U | mg/kg | .14 | .14 U | mg/kg | .14 |
| Lead | 2 J | mg/kg | | 2.2 | mg/kg | | .74 | mg/kg | |
| Mercury | .03 U | mg/kg | .03 | .03 U | mg/kg | .03 | .03 J | mg/kg | |
| Nickel | 1.3 U | mg/kg | 1.3 | 1.2 U | mg/kg | 1.2 | 1.2 U | mg/kg | 1.2 |
| Selenium | .64 UJ | mg/kg | | .64 UJ | mg/kg | | .63 UJ | mg/kg | |
| Silver | .45 U | mg/kg | .45 | .44 U | mg/kg | .44 | .44 U | mg/kg | .44 |
| Thallium | .13 U | mg/kg | .13 | .13 UJ | mg/kg | | .13 U | mg/kg | .13 |
| Tin | 3.6 U | mg/kg | 3.6 | 3.8 U | mg/kg | 3.8 | 3.01 U | mg/kg | 3.01 |
| Vanadium | 2.6 J | mg/kg | | 2.1 J | mg/kg | | 1.9 J | mg/kg | |
| Zinc | 7.8 | mg/kg | | 7.1 J | mg/kg | | 2.9 U | mg/kg | 2.9 |

U = NOT DETECTED R = RESULT IS REJECTED
J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

ATTACHMENT D

REFERENCES

REFERENCES

- ABB Environmental Services, Inc (ABB-ES)., 1991, Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Workplan, U.S. Naval Station, Mayport, Florida, Volumes I, II, and III (Interim Final): prepared for Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), North Charleston, South Carolina, October.
- ABB-ES, 1995, Resource Conservation and Recovery Act (RCRA) Corrective Action Program General Information Report, U.S. Naval Station, Mayport, Florida: prepared for Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), North Charleston, South Carolina, July.
- Florida Department of Environmental Protection (FDEP), 1995, Memorandum from John M. Ruddell, Director to District Directors, Waste Management Program, Subject: Soil Cleanup Goals for Florida; Division of Waste Management, FDEP, Tallahassee, April 5.
- United States Environmental Protection Agency (USEPA), 1986, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods: SW846.
- USEPA, 1988, Laboratory data validation functional guidelines for evaluating inorganic analysis: July.
- USEPA, 1990, National functional guidelines for organic data review: December 1990 (revised June 1991).
- USEPA, 1991, Environmental Compliance Branch Standard Operation Procedures and Quality Assurance Manual, USEPA Region IV, Environmental Services Branch, Athens, Georgia, February.
- USEPA, 1994, Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities, Memorandum from Elliot P. Laws, Assistant Administrator, Office of Solid Waste and Emergency Response, OSWER Directive 9355.4-12, Washington, D.C.
- USEPA, 1993, Selecting Exposure Routes and Contaminants of Concern by Risk-Based Screening: Region III Technical Guidance Manual, Risk Assessment, USEPA/903/R-93-001, January.
- USEPA, 1995, Memorandum from Roy L. Smith, Technical Support Section, USEPA Region III to Risk Based Concentration (RBC) Mailing List, subject Risk Based Concentration Table, February 9.