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FINAL BASE REALIGNMENT AND CLOSURE ENVIRONMENTAL SITE SCREENING
REPORT STUDY AREA 6 NTC ORLANDO FL
7/1/1996
ABB ENVIRONMENTAL

**BASE REALIGNMENT AND CLOSURE
ENVIRONMENTAL SITE-SCREENING REPORT**

00038

STUDY AREA 6

**NAVAL TRAINING CENTER
ORLANDO, FLORIDA**

Unit Identification Code: N65928

Contract No. N62467-89-D-0317/107

Prepared by:

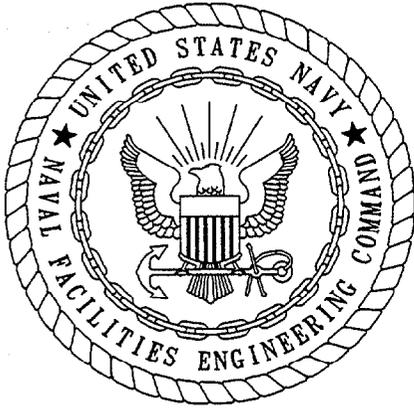
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Prepared for:

**Department of the Navy, Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29418**

Barbara Nwokike, Code 1873, Engineer-in-Charge

July 1996



CERTIFICATION OF TECHNICAL
DATA CONFORMITY (MAY 1987)

The Contractor, ABB Environmental Services, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0317/107 are complete and accurate and comply with all requirements of this contract.

DATE: July 17, 1996

NAME AND TITLE OF CERTIFYING OFFICIAL: John Kaiser
Task Order Manager

NAME AND TITLE OF CERTIFYING OFFICIAL: Mark Salvetti
Project Technical Lead

(DFAR 252.227-7036)

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Naval Training Center
Orlando, Florida

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GLOSSARY

4,4'-DDD	4,4'-dichlorodiphenyldichloroethane
4,4'-DDE	4,4'-dichlorodiphenyldichloroethene
4,4'-DDT	4,4'-dichlorodiphenyltrichloroethane
ABB-ES	ABB Environmental Services, Inc.
CLP	Contract Laboratory program
DQO	data quality objective
FOSL	Finding of Suitability to Lease
FOST	Finding of Suitability to Transfer
GPS	global positioning system
mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
OPT	Orlando Partnering Team
PAH	polynuclear aromatic hydrocarbon
RBC	risk-based concentration
TAL	target analyte list
TCL	target compound list
USEPA	U.S. Environmental Protection Agency

1.0 STUDY AREA 6, LAKE BALDWIN

This report contains information gathered as a result of site-screening activities conducted at Study Area 6. In the fall of 1995, after the review of site-screening results, the Orlando Partnering Team (OPT) determined that no further action was required at Study Area 6 and that the lake was transferrable under the provisions of a Finding of Suitability to Lease (FOSL) or Finding of Suitability to Transfer (FOST).

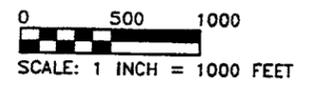
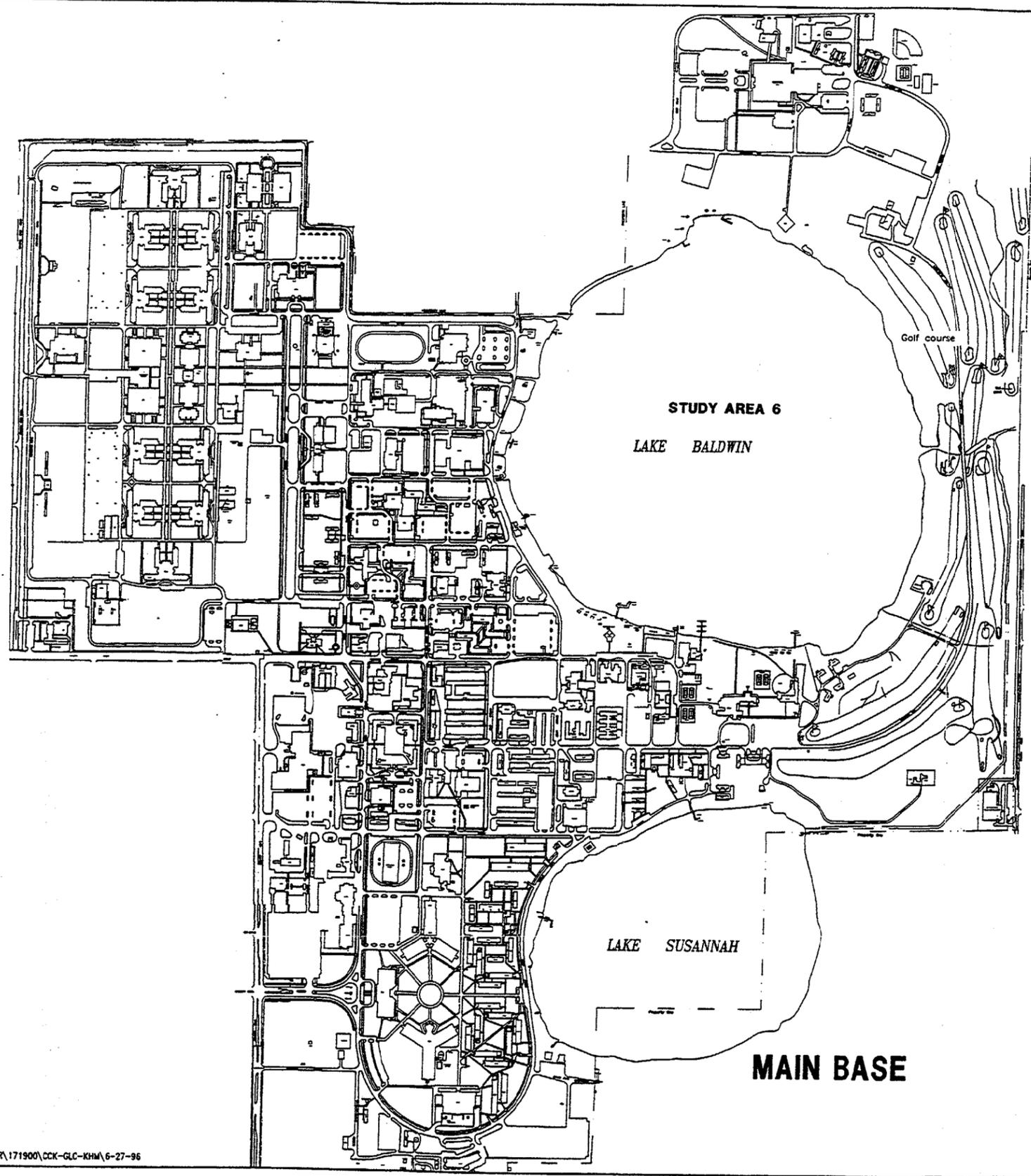
1.1 STUDY AREA 6, BACKGROUND AND CONDITIONS. Lake Baldwin is located in the east central area of the Main Base (Figures 1 and 2). The areal extent of the lake is 196 acres, with a maximum depth of 25 feet and an average depth of 14 feet. Several potential sources of contaminants from former activities were identified in the Environmental Baseline Survey, including discharge of spent photographic chemicals into storm sewers discharging to the lake, stormwater runoff from firefighter-training activities, and lead shot from a skeet shooting range (ABB-ES Environmental Services, [ABB-ES], 1994a). Previous studies have detected phenols and pesticides in the surface water (Geraghty & Miller, 1986). Anecdotal accounts of past drum disposal in Lake Susannah on the Main Base have also been reported (ABB-ES, 1994b).

1.2 STUDY AREA 6, INVESTIGATION SUMMARY.

1.2.1 Lacustrine Magnetometer Survey A lacustrine magnetometer survey was conducted during the period of August 1 to August 19, 1994, to evaluate the potential presence of submerged 55-gallon drums on the bottom of Lake Baldwin. This investigation was conducted because of OPT concerns that if drums had been disposed of in Lake Susannah, they may also have been disposed of in Lake Baldwin. Global positioning system (GPS) survey equipment facilitated navigation along preestablished east-west survey lines 25 feet apart and located survey points to within submeter accuracy. Seven magnetic anomalies of 30 to 60 gammas magnetic intensity were identified in the northern third of the lake (Figure 3), which were not explained by structures along the shoreline.

A followup investigation took place on May 25, 1995, to determine the source of the magnetic disturbances at Lake Baldwin. A Trimble 4000 RS GPS receiving differential corrections from an Omnistar 6300 receiver was used to position the boat over the magnetic anomalies (Table 1). This system enabled the survey team to reoccupy each of the magnetic anomaly positions to within approximately 1 meter. After each location had been marked (with a buoy tied to a temporary anchor), a Geometrics G822L cesium vapor magnetometer was used to refine the position of the magnetic target (Table 1).

Professional divers investigated a 60-foot-diameter area in the vicinity of each target. The dive team used a supplied air system with hardwired communications so that the diver could describe bottom conditions to the dive team supervisor. The diver utilized a 30-foot polyline attached to the temporary anchor to rove systematically in 5-foot increments away from the marked location (visibility in undisturbed water was 5 to 8 feet).



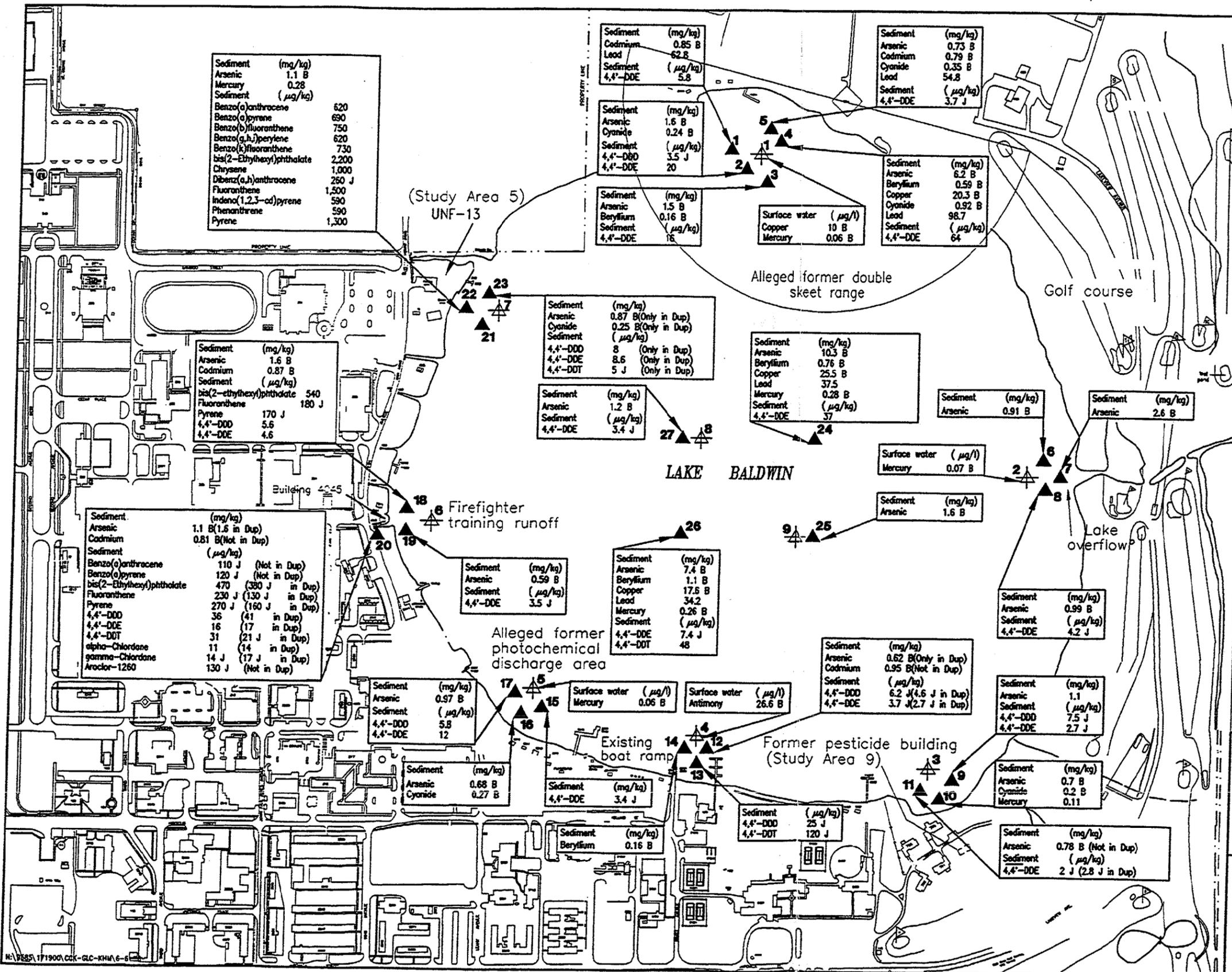
SOURCE: ABB-ES 1994b.

FIGURE 1
LOCATION OF STUDY AREA 6



**BASE REALIGNMENT AND
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SCREENING REPORT**

**NAVAL TRAINING CENTER
ORLANDO, FLORIDA**



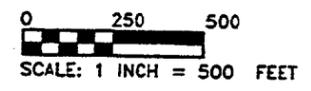
Sediment (mg/kg)	
Arsenic	1.1 B
Mercury	0.28
Sediment (µg/kg)	
Benzo(a)anthracene	620
Benzo(a)pyrene	690
Benzo(b)fluoranthene	750
Benzo(g,h,i)perylene	620
Benzo(k)fluoranthene	730
bis(2-Ethylhexyl)phthalate	2,200
Chrysene	1,000
Dibenz(a,h)anthracene	260 J
Fluoranthene	1,500
Indeno(1,2,3-cd)pyrene	590
Phenanthrene	590
Pyrene	1,300

Sediment (mg/kg)	
Arsenic	1.6 B
Cadmium	0.87 B
Sediment (µg/kg)	
bis(2-ethylhexyl)phthalate	540
Fluoranthene	170 J
Pyrene	180 J
4,4'-DDD	5.5
4,4'-DDE	4.6

Sediment (mg/kg)	
Arsenic	1.1 B(1.5 in Dup)
Cadmium	0.81 B(Not in Dup)
Sediment (µg/kg)	
Benzo(a)anthracene	110 J (Not in Dup)
Benzo(a)pyrene	120 J (Not in Dup)
bis(2-Ethylhexyl)phthalate	470 (380 J in Dup)
Fluoranthene	230 J (130 J in Dup)
Pyrene	270 J (160 J in Dup)
4,4'-DDD	36 (41 in Dup)
4,4'-DDE	16 (17 in Dup)
4,4'-DDT	31 (21 J in Dup)
alpha-Chlordane	11 (14 in Dup)
gamma-Chlordane	14 J (17 J in Dup)
Aroclor-1260	130 J (Not in Dup)

LEGEND

- ▲ Surface water sample location
- ▲ Sediment sample location
- mg/kg Milligrams per kilogram
- µg/kg Micrograms per kilogram
- µg/l Micrograms per liter
- Dup Duplicate
- J estimated value
- DDD dichlorodiphenyldichloroethane
- DDE dichlorodiphenyldichloroethene
- DDT dichlorodiphenyltrichloroethane

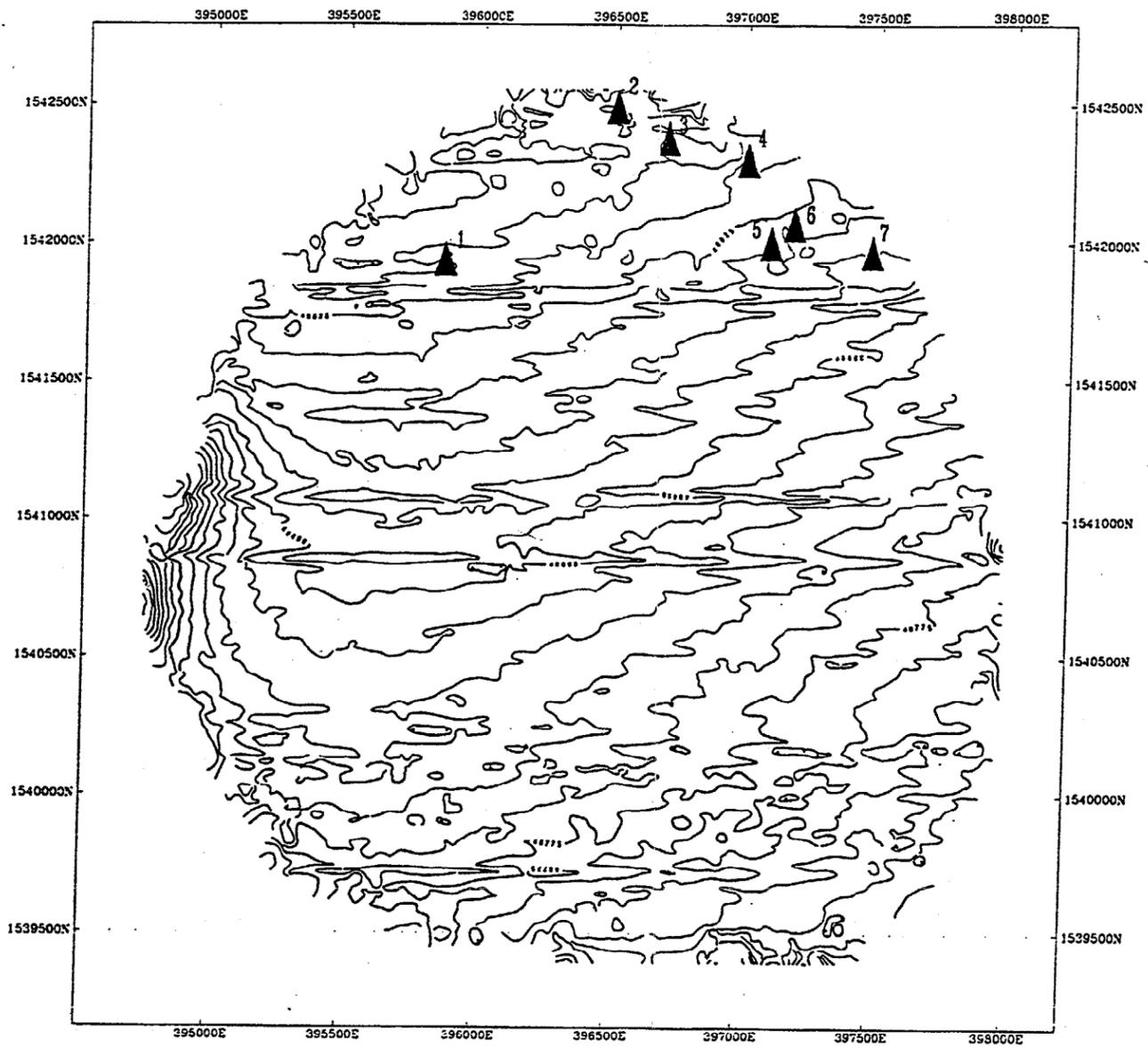


SOURCE: ABB-ES, 1944B.

FIGURE 2
SURFACE WATER AND SEDIMENT
SAMPLE LOCATIONS AT LAKE BALDWIN,
STUDY AREA 6

BASE REALIGNMENT AND
CLOSURE ENVIRONMENTAL SITE
SCREENING REPORT

NAVAL TRAINING CENTER
ORLANDO, FLORIDA



LEGEND

▲ Magnetic anomaly

NOTES:
Datum is NAD27
Magnetic contours are gammas
Contour interval is 5 gammas

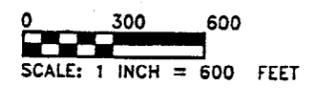


FIGURE 3
TOTAL MAGNETIC FIELD CONTOURS AND
MAGNETIC ANOMALIES; LAKE BALDWIN,
STUDY AREA 6



BASE REALIGNMENT AND
CLOSURE ENVIRONMENTAL SITE
SCREENING REPORT

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Table 1
Magnetic Anomalies - Lake Baldwin, Study Area 6

BRAC Environmental Site-Screening Report
 Study Area 6
 Naval Training Center
 Orlando, Florida

Anomaly #	Original Position of Magnetic Disturbance Determined 8/94 (P _o)		Resurveyed Locations Determined May 25, 1995 (P ₁)		Distance (P _o to P ₁)
	Northing (ft)	Easting (ft)	Northing (ft)	Easting (ft)	
1	1,541,930	395,860	1,541,940	395,860	10
2	1,542,480	396,500	1,542,496	396,480	26
3	1,542,340	396,710	1,542,347	396,703	10
4	1,542,280	397,010	1,542,287	397,023	15
5	1,541,980	397,080	1,541,947	397,119	51
6	1,542,050	397,180	1,542,043	397,167	15
7	1,541,960	397,475	1,541,944	397,478	16

Notes: BRAC = Base Realignment and Closure.
 Datum is NAD (North American Datum) 27, Florida, East Zone.
 P_o = original position.
 P₁ = resurveyed position.
 ft = feet.

At six of the seven magnetic anomaly locations, ferrous debris was observed or recovered, which was consistent with the observed magnetic disturbance. The debris included angle iron, steel pipe, power pole guide wire ground anchors, and a small car bumper. No ferrous objects were observed at the seventh target, but a layer of loose silt and organic matter could have obscured a small ferrous object capable of producing a minor magnetic anomaly such as was observed in this location.

Appendix A presents the results of the lacustrine magnetometer survey, and details of the underwater investigation conducted by professional divers.

1.2.2 Surface Water and Sediment Sampling Nine surface water and 27 sediment samples were collected from Lake Baldwin to evaluate levels of potential chemical contaminants (Figure 2). Sediment samples were analyzed for full suite Contract Laboratory (CLP) target compound list (TCL) and target analyte list (TAL), herbicides, cyanide, and total organic carbon, in accordance with U.S. Environmental Protection Agency (USEPA) Level IV data quality objectives (DQOs). Surface water samples were analyzed for full suite CLP TCL and TAL, herbicides, cyanide, total dissolved solids, total suspended solids, alkalinity, and hardness, in accordance with USEPA Level IV DQOs. Sediment and surface water opposite the firefighter-training outfall, Unnumbered Facility-13 (the former Motorboat Rental Area, Study Area 5), and the current motorboat rental area were also analyzed for total petroleum hydrocarbons.

1.3 STUDY AREA 6, RESULTS. A summary of positive detections in sediment and surface water analytical results is presented in Appendix B. A complete set of soil and groundwater analytical results is presented in Appendix C. The derivation of surface water and sediment screening values is included in Appendix D.

Sampling locations for the nine surface water samples, identified as 1 through 9 on Figure 2, correspond to surface water samples 06W001 through 06W009, respectively. Similarly, sediment sampling locations, identified as 1 through 27 on Figure 2, correspond to sediment samples 06D001 through 06D027. The locations and concentrations of compounds exceeding sediment and surface water standards are shown on Figure 2.

1.3.1 Sediment The following analytes were detected in sediment above sediment screening criteria at various locations around the lake: arsenic (3 of 27 locations; 6.2B to 10.3 milligrams per kilogram [mg/kg]), cadmium (5 of 27 locations; 0.79B to 0.95B mg/kg), copper (3 of 27 locations; 17.6B to 25.5B mg/kg), cyanide (6 of 27 locations; 0.2B to 0.92B mg/kg), lead (5 of 27 locations; 34.2 to 98.7 mg/kg), and mercury (4 of 27 locations; 0.11 to 0.28B mg/kg).

The low frequency of elevated arsenic concentrations in Lake Baldwin sediment suggests that arsenic is occasionally naturally present in Lake Baldwin above the sediment screening value.

Of the five samples that exceeded the lead screening criteria, three were within the alleged skeet range, and two were in the middle of the lake. The highest concentration detected was in the skeet range (98.7 mg/kg), compared to the screening concentration of 21 mg/kg. Lead contamination does not appear to be

widespread, considering that only three of the five sediment samples in the skeet range exceeded screening criteria.

Organic compounds detected in Lake Baldwin sediment above screening criteria were primarily polynuclear aromatic hydrocarbons (PAHs) and pesticides. 4,4'-dichlorodiphenyltrichloroethane (4,4'-DDT) or its related compounds (4,4'-dichlorodiphenyldichloroethane (4,4'-DDD) and dichlorodiphenyldichloroethene (4,4'-DDE) were detected above screening criteria at 18 of 27 locations at concentrations between 2.7J and 120J micrograms per kilogram ($\mu\text{g}/\text{kg}$). PAHs were concentrated in sediment samples 18 and 20 (where petroleum runoff from firefighter-training activities entered the lake) and in one sediment sample (number 22) near the former motorboat rental area. Chlordane (up to 17J $\mu\text{g}/\text{kg}$) and Aroclor-1260 (130J $\mu\text{g}/\text{kg}$) were detected in sediment sample 20, collected adjacent to the stormwater outfall that carried firefighter-training runoff.

Most of the organic compounds exceeding screening criteria were concentrated in sediment sample 06D020, collected at the outfall that received runoff from the firefighter-training area, along with other parts of the base. Sediment collected further out in the lake from the outfall exhibited noticeably lower concentrations of all compounds, with the exception of bis(2-ethylhexyl)-phthalate. The Main Base is highly urbanized, and Lake Baldwin receives runoff from most of the paved areas at the facility. Sample 06D020 was the only sample collected directly below an outfall and, therefore, is more likely to include these anthropogenic compounds. Similarly, the even distribution of DDT-related compounds in many of the sediment samples collected from the lake is not unexpected and is likely due to prior normal use of the pesticide.

No evidence of sediment contamination was found in the vicinity of the alleged photochemical discharge area, with the exception of a single exceedance of the sediment criteria for cyanide (0.27B mg/kg detected versus a screening concentration of 0.1 mg/kg).

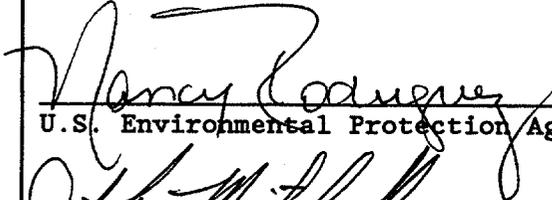
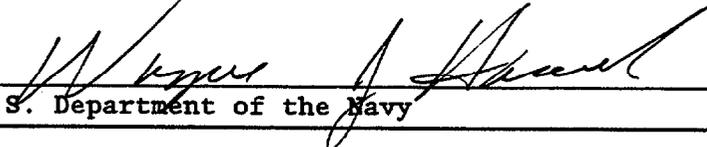
The source of PAHs detected in sediment sample 06D022 offshore of the former motorboat rental area (Study Area 5) is unknown.

1.3.2 Surface Water The surface water standard for copper was exceeded in one sample location (06W001) and for mercury in four locations (06W001, 06W002, 06W005, and 06W006). There is no known source for these exceedances.

1.4 STUDY AREA 6, CONCLUSIONS AND RECOMMENDATIONS. Based upon available information and the results of the site-screening operations, the surface water sampled at Lake Baldwin does not likely represent an environmental concern. Inorganics detected in sediment samples above screening criteria are limited and do not appear to represent a pattern of contamination. Organic compounds detected in sediment samples above screening criteria are primarily at surface water outfalls, are not widespread, and are not a concern. The sources of magnetic disturbance in Lake Baldwin are unrelated to the disposal of 55-gallon drums and are not of environmental concern.

ABB-ES recommends the color classification for Study Area 6 be changed from 7/Gray to 1/White, and further recommends an FOST with no requirement for further evaluation.

The undersigned members of the OPT concur with the findings of the preceding investigation.

<u>STUDY AREA 6</u>	
 _____ U.S. Environmental Protection Agency, Region IV	<u>7/24/96</u> _____ Date
 _____ Florida Department of Environmental Protection	<u>7/24/96</u> _____ Date
 _____ U.S. Department of the Navy	<u>7/24/96</u> _____ Date

REFERENCES

ABB Environmental Services, Inc. (ABB-ES), 1994a, Final Draft Environmental Baseline Survey (EBS) Report, Naval Training Center (NTC), Orlando, Florida: prepared for Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), Charleston, South Carolina.

ABB-ES, 1994b, BRAC Cleanup Plan (BCP): 90 Percent Completion Draft NTC, Orlando, Florida: prepared for SOUTHNAVFACENGCOM, Charleston, South Carolina.

Geraghty & Miller, 1986, Verification Study, Assessment of Potential Soil and Ground-Water Contamination at NTC, Orlando, Florida, Tampa, Florida, December.

APPENDIX A

LACUSTRINE SURVEYS

**Appendix A-1: Final Report, Lacustrine Magnetometer Survey Naval Training Center Complex,
Orlando, Florida**

Appendix A-2: Underwater Investigation, Lake Baldwin, NTC, Orlando, Florida

APPENDIX A-1

**FINAL REPORT, LACUSTRINE MAGNETOMETER SURVEY
NAVAL TRAINING CENTER COMPLEX, ORLANDO, FLORIDA**

FINAL REPORT

**LACUSTRINE MAGNETOMETER SURVEY
NAVAL TRAINING CENTER COMPLEX
ORLANDO, FLORIDA**

Prepared For:

**ABB ENVIRONMENTAL SERVICES, INC.
ORANGE PARK, FLORIDA**

Prepared By:

**SUBSURFACE DETECTION INVESTIGATIONS, INC.
LARGO, FLORIDA**

NOVEMBER 1994

November 1, 1994

ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

Attention: Mr. Steve Grietens

**Subject: Final Report - Lacustrine Magnetometer Survey
Naval Training Center Complex - Orlando, Florida
SDII Project Number 94781**

Dear Mr. Grietens:

Subsurface Detection Investigations, Inc. (SDII) is pleased to submit the final report for the above referenced project. The purpose of the investigation was to utilize geophysical techniques to help locate and identify submerged 55-gallon drums, outboard motor parts, and other metallic objects. The project was performed in accordance with our Proposal Number 94433, dated June 23, 1994.

SDII appreciates the opportunity to have assisted ABB Environmental Services, Inc. on this project. If you have any questions or comments about the report, please contact us.

Sincerely,

SUBSURFACE DETECTION INVESTIGATIONS, INC.

James E. Bock
Geophysicist

Michael J. Wightman, P.G.
Senior Geophysicist/Hydrogeologist

JEB/MJW/ℒ

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Lake Baldwin

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- 2 Diagram Showing Set-up of GPS and Magnetometry Equipment on Survey Boat
- 3 Schematic Diagram Showing Lacustrine Magnetometer Survey Equipment Set-up
- 4 Diagram Showing Temporal Variation Drift Curve (August 11, 1994)

EXECUTIVE SUMMARY

A geophysical investigation was conducted over a 12-day period from August 1 to August 19, 1994, at the Naval Training Center Complex in Orlando, Florida. The purpose of the investigation was to determine the presence of various ferromagnetic objects (e.g., 55-gallon drums or outboard motor parts) in Lake Baldwin. The investigation was conducted using a shipborne magnetometer. The position of the magnetometer on the lakes was determined using a Global Positioning System. The magnetic data was collected on 25-foot intervals and was corrected for diurnal (time) variations. Results are presented as total magnetic field values contoured on a 10-gamma interval.

Results from the investigation indicate that ferromagnetic objects may be present in Lake Baldwin. Partially metallic structures are present, however, in several of the areas with elevated magnetic readings. Accordingly, the elevated readings may be completely attributable to these structures.

1.0 INTRODUCTION

1.1 Background

ABB Environmental Services, Inc. (ABB) is performing an environmental investigation at Lake Baldwin located within the Naval Training Center (NTC) Complex in Orlando, Florida. The investigation is being conducted under Navy Contract N62467-89-D-0317 for the Southern Division Naval Facilities Engineering Command. It is suspected that 55-gallon drums, outboard motor parts, and other metallic objects may have been submerged in the lakes. The lakes are natural, freshwater lakes located almost entirely within the NTC complex boundaries. A magnetometer survey was conducted across each of the lakes to provide ABB with the data necessary to guide further investigations.

1.2 Purpose

The purpose of this investigation was to help identify the location of 55-gallon drums, outboard motor parts, and other metallic objects that have been submerged in Lake Baldwin which is located within the NTC complex in Orlando, Florida.

1.3 Scope of Work

The magnetometer survey was conducted in accordance with the specifications, requirements, and conditions in Section C - Scope of Services, as outlined in RFP N94-028 dated June 17, 1994. Specifically, SDII implemented the following scope of work to perform this investigation:

- ▶ Mobilize to the project site and setup magnetometer and global positioning system (GPS) instrumentation;
- ▶ Conduct the field investigation per scope of work requirements;
- ▶ Demobilize from the project site and perform reduction and analysis of field data; and
- ▶ Provide a final report summarizing the geophysical methods, field procedures, and results of the investigation.

1.4 Site Description

The project site is located within the NTC Complex in Orlando, Florida (Figure 1). Lake Baldwin is 196 acres in size, of which, 193 acres are owned by the government. The remaining 3 acres are owned by the City of Winter Park and are used for recreational purposes. The lake is circular in shape and, based on information provided by ABB, has a maximum depth of 25 feet (ft) with an average depth of 14 ft. Boat ramps and docks are present along the southern and northern boundaries of the lake. At the time of the SDII field investigation, very little aquatic vegetation was present either on or around the perimeter of the lake.

2.0 METHODOLOGY

2.1 Equipment and Principles

2.1.1 Magnetometer

A magnetometer measures the intensity of the total magnetic field in the area around the sensor. Typically, the measurement is made using either a fluxgate or proton-precessional type magnetometer. The primary difference between the two magnetometers is that the measurement of the total magnetic field by a proton-precessional magnetometer is independent of the orientation of the instrument, while the measured value of the total magnetic field by a fluxgate magnetometer will vary with orientation.

In environmental and engineering applications, the primary use of a magnetometer is to evaluate perturbations in the magnetic field of the earth that are caused by subsurface anomalies. Perturbations in the total magnetic field caused by subsurface anomalies are the result of a complex relationship between the object and the magnetic field of the earth. The relationship is complex because the total field registered by the instrument is a vectorial representation of three factors which affect the magnitude of the response; (1) The ambient magnetic field of the earth, (2) The inductive contribution from the object, and (3) Any contributions to the total field by remanent or permanent magnetization. Accordingly, the observed intensity of the total field is dependant upon the position of the measuring device within the source field caused by the anomaly. The magnitude of the magnetic field of the earth is typically measured in gammas. The magnitude of the magnetic field in central Florida ranges from 45,000 to 50,000 gammas (Dobrin, 1988).

The total intensity of the earth's magnetic field varies both spatially and temporally. Temporal variations are caused by distortions of the magnetic field by solar winds. Temporal variations are classified as either daily (diurnal), micro-pulsations (seconds to tens of minutes), or as solar storms which can last several days. Diurnal variations occur during daylight hours. The absolute magnitude and time rate of change of the variations, however, are not predicable. Diurnal variations can cause changes in the earth's ambient magnetic field to 100 gammas. Micropulsations are typically a relatively short-term phenomenon and their occurrence is random. Typical magnitude of changes caused micropulsations is in the range of 0.1 to 10's of gammas. The occurrence and duration of solar storms is also relatively unpredictable. Such storms can last one to several days and exhibit magnetic field variations of up to several 100 gammas.

In environmental or engineering applications, temporal variations are considered as noise sources which interfere with the measurements of interest. Depending upon the precision requirements of a study, temporal variations can be recorded by a magnetometer at a fixed base station. Data collected with the survey magnetometer can then be corrected to remove the affects of temporal variations.

Spatial variations in the earth's magnetic field are caused by the localized occurrence of magnetized minerals, iron objects, or cultural features of interest. Such variations cause two types of magnetism; induced and remanent (or permanent). Induced magnetization refers to the action of the material in enhancing the earth's magnetic field as the material itself acts as a magnet. The magnitude of the induced field is directly proportional to the strength of

the ambient field and the ability of the material to act as a magnet (magnetic susceptibility). Remanent (with rocks) or permanent (with metals) magnetization is the magnetic field caused by the object or material independent of the ambient earth's magnetic field. The magnetic field variations caused by metal objects such as 55-gallon drums or outboard motor boat parts are a combination of both induced and permanent magnetization. A nomogram showing the estimated contribution to the total magnetic field for various objects as a function of depth is provided in Appendix 1.

A fluxgate magnetometer (EG&G Geometrics, Inc. Model G-856A) was used as the base station for this study. The G-856A has an effective sensitivity of 1 gamma. The G-856A was used with a digital data logger. A proton precessional magnetometer (EG&G Geometrics, Inc. G-822L Cesium Vapor Magnetometer) was used as the survey magnetometer and has an effective sensitivity of 0.01 gammas. The G-822L was equipped with an RS-232 port to directly download information to a portable computer.

2.1.2 Global Positioning System

A global positioning system (GPS) was used by SDII to determine the position of the survey magnetometer at the designated station locations on each of the lakes. The system used for the investigation was the GPS - Trimble 4000RS Reference Surveyor System. The principal components of the GPS are:

- ▶ Trimble SE Receiver-Base Station
- ▶ Trimble SE Receiver-Rover
- ▶ Pacific Crest RDDR-96 Radio Modem System
- ▶ Toshiba 3200 SX Computer with HYDRO software

The global positioning system (GPS) is a constellation of satellites maintained by the U.S. Department of Defense. It consists of 21 active satellites and 3 in-orbit spares. Due to ionospheric and tropospheric delays, and errors deliberately added by the Department of Defense, GPS can only be relied upon to be accurate within approximately 300 ft. However, if a GPS receiver is installed in a known, surveyed location, then the error inherent in the GPS position can be determined by comparing the calculated range to the satellite constellation, terrain, and GPS receiver. This correction can then be broadcast in real time to other GPS receivers, providing accuracy in the sub-meter range, depending upon the quality of the satellite constellation, terrain, and GPS receiver. The GPS receiver base station was placed upon a known survey marker (Orlando Air Force Base, Air Survey Marker, Camera Pad #2) prior to the SDII field investigation to allow for this correction to be made.

2.2 Field Procedures

2.2.1 Magnetometer Base Station

The magnetometer base station was established near the northwest boundary of Lake Baldwin. A EG&G 856-A fluxgate magnetometer was used. The base station magnetometer was established in the same location, same orientation (north) and at the same height at the beginning of each survey day. Readings were automatically collected on 5-minute intervals and digitally recorded. The beginning time for the base station readings was recorded in a field notebook to allow for a correlation between base station and survey magnetometer readings.

2.2.2 Survey Magnetometer

The survey magnetometer was held approximately 2 ft above the water surface by a boom extending 15 ft from the bow of the survey boat. A EG&G G-822L cesium vapor magnetometer was used. A diagram showing the equipment configuration is provided in Appendix 2. Prior to the final design of the boom, it was determined by SDII that magnetic readings would not be affected by the boat when they were collected at a minimum distance 8 ft away from the boat.

2.2.3 Global Positioning Base Station

A Trimble 4000 RS reference surveyor was used for the investigation. The base station GPS antenna was placed directly on top of survey marker (Camera Pad #2), located northwest of Lake Baldwin. The latitude/longitude coordinates of survey marker are 28°34' 27.02756 and 81°19'38.31754, respectively, and were obtained from Mr. Pat Gilligan (Air Force Geodetic Survey, Patrick Air Force Base).

2.2.4 Global Positioning Reference Station

The reference station GPS antenna was positioned 3 ft above the survey magnetometer using the boom-configuration shown in Appendix 2. Prior to the final design of the boom, it was determined that the GPS antenna could be within 1.5 ft of the survey magnetometer without an affect on magnetic survey readings. The close proximity of the magnetometer to the GPS antenna did not affect the precision of the GPS results.

2.2.5 GPS and Magnetometer Data

The GPS and survey magnetometer data was downloaded into the software program called HYDRO (Trimble Navigation, Inc.) This program was used for several purposes in the project. Prior to the beginning of the survey, navigation files were created to establish east/west trending transect lines across each of the lakes. During the survey, real time GPS data was downloaded to the HYDRO program and the relative position of the boat on the designated transect line was shown as computer graphic which was monitored by the boat pilot. At the same time, the program created a data base file containing total magnetic field readings and position information. Upon completion of the survey, these data files were downloaded to Lotus 1-2-3 Release 4.0 (LOTUS) for further editing and correction for diurnal variations. The magnetic data was contoured and the final editing of the map for presentation was performed using AutoCad Release 12.0 (AutoCad).

2.2.6 Field Set-Up

At the beginning of each of field day, GPS and magnetometer survey equipment was set-up. A diagram showing the configuration of the survey equipment used on the boat is provided in Appendix 2. A schematic showing the configuration of the entire survey system is provided in Appendix 3. At the beginning of each field day, starting times for both the base station magnetometer and survey magnetometer were recorded to allow for later temporal corrections of the survey data.

Parallel transects treading in an east/west direction and separated 25 ft apart were performed across each lake. Data was collected along each transect line on 25-foot intervals. During the survey, all magnetic field readings and position information were automatically downloaded to portable computer using the HYDRO software program. The relative position of the boat on the transect line was

shown on a continuous basis to the boat pilot on a real-time graphic created by the HYDRO software program. To minimize any potential heading effects, each transect was performed in the same direction.

2.2.7 Data Reduction

Data was reduced using HYDRO and LOTUS software programs. Magnetic field data, time and position coordinates were downloaded from HYDRO to LOTUS. In LOTUS, temporal corrections to the magnetic data were made and data files were created to make the contour maps.

Temporal corrections were made from base station readings which were collected on 5-minute intervals. All data was corrected to a base station value of 48,800 which was established on the first day of the survey. The correction factor for magnetic field data collected between each 5-minute interval was determined using a linear interpolation between the two base station readings. For example, if two sequential base station readings were 48,850 and 48,855, a correction factor of -51 gammas would be applied to data collected 1 minute after the first base station reading, -52 gammas for readings collected 2 minutes after, etc. Contouring of the data was done and final editing of the maps was performed using AutoCad. Survey results for each lake were presented as a 10-gamma contour of the magnetic data.

3.0 RESULTS

Results from the investigation indicate that ferromagnetic objects may be present in Lake Baldwin. In several of the areas, however, the observed elevation in magnetic readings may be completely attributable to partially metallic structures in these areas. A regional geo-magnetic trend appears to be present across each of the lakes. The trend occurs with an east/west orientation and increases from south to north (Figure 2).

Magnetic data was corrected based on readings collected on 5-minute intervals at the base station. Review of the base station data indicates that the observed temporal changes were likely due to diurnal variations or micro-pulsations. The base station data did not appear to indicate that a solar storm, which would have caused an extreme irregular variation in base station values, had occurred. A sample graph showing the temporal variation in base station magnetometer readings collected on August 11, 1994 is provided in Appendix 4.

3.1 Lake Baldwin

The results of the lacustrine magnetometer survey for Lake Baldwin are presented in Figure 2. Total magnetic field values ranged from 48704 to 48883 gammas. Maximum and minimum values are provided in several areas to facilitate interpretation of the contour map. Results from the survey indicate that ferromagnetic objects may be present in several areas of the lake. Areas of elevated magnetic readings occur near the perimeter of the lake. Three of the areas where elevated magnetic readings occur may be completely attributable to the presence of either boat ramps or docks.

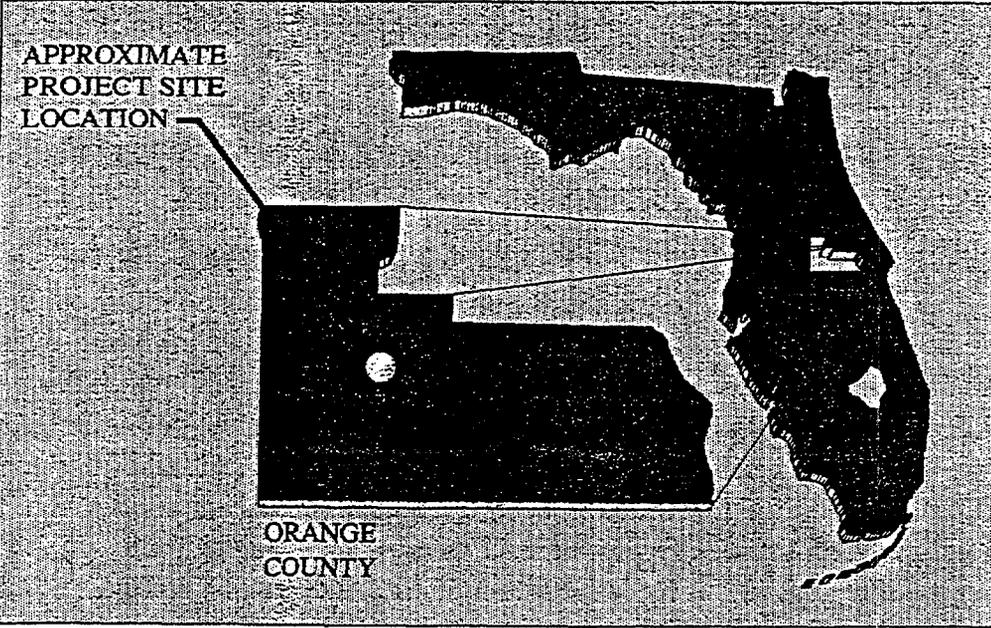
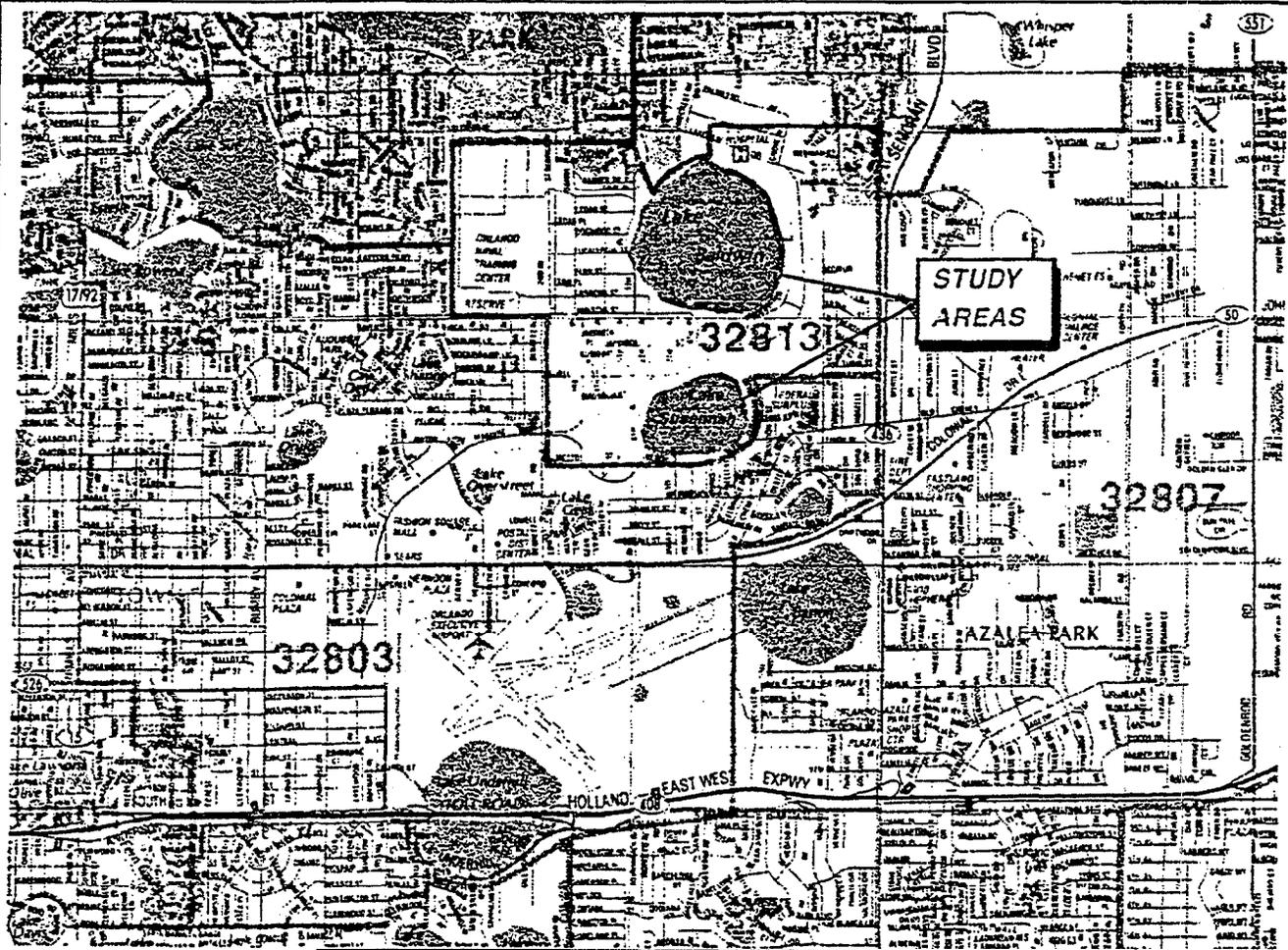
4.0 LIMITATIONS

The geophysical assessment of this site is based on our professional evaluation of the geophysical data gathered and our experience with the properties of magnetometry in the setting of the site area and in the operation of a global positioning system. The geophysical evaluation rendered in this reports meets the standards of care of our profession. No other warranty or representation, either expressed or implied, is included or intended.

REFERENCES

Dobrin, M. B. and Savit, C. H., 1988. Introduction to Geophysical Prospecting, Fourth Edition. MacGraw-Hill, Inc.

FIGURES



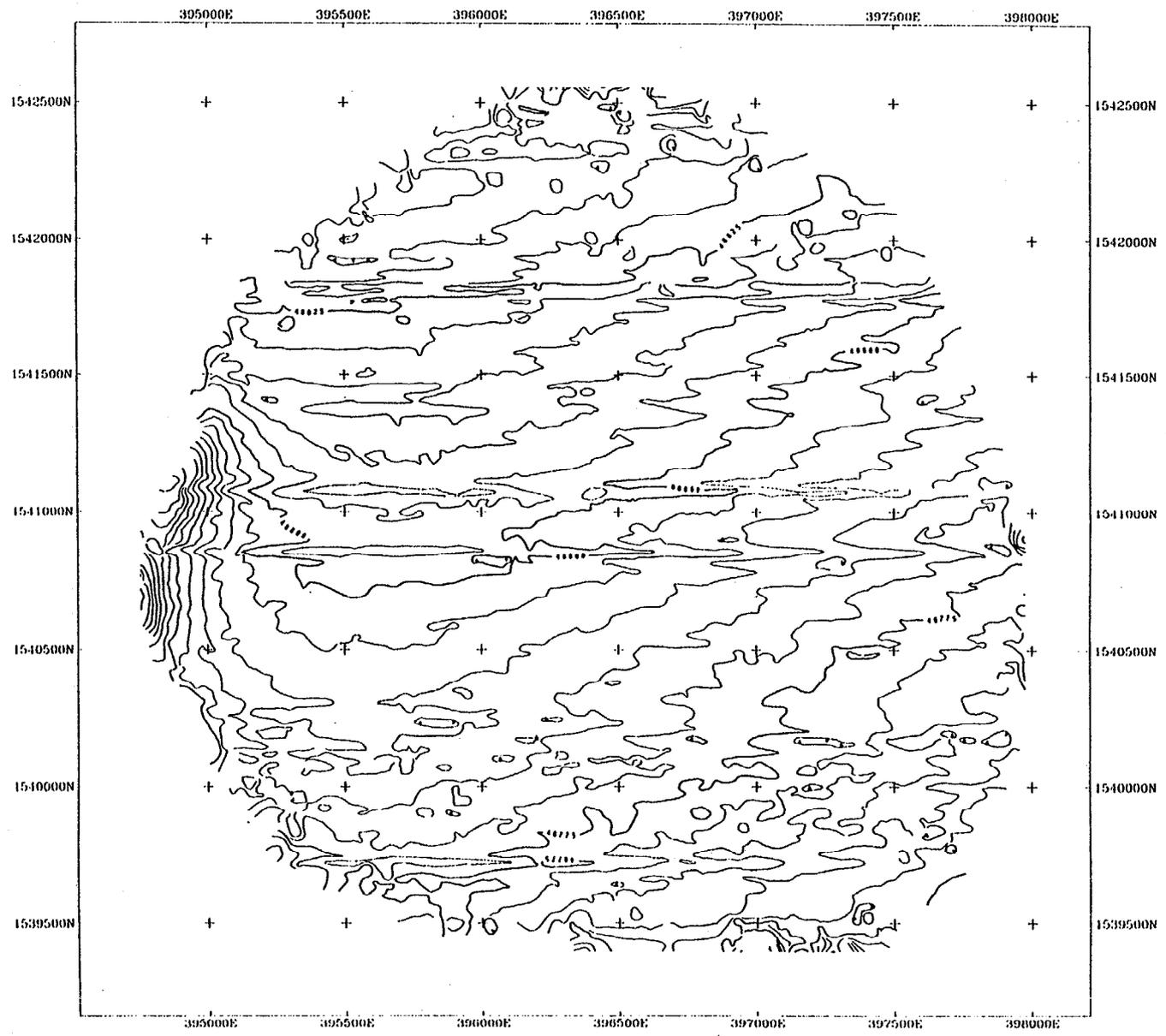
N
NOT TO SCALE

ABB ENVIRONMENTAL SERVICES, INC.
ORANGE PARK, FLORIDA



PROJECT SITE LOCATION MAP
LACUSTRINE MAGNETOMETER SURVEY SITE
NAVAL TRAINING CENTER COMPLEX
ORLANDO, FLORIDA

DESIGNED BY: JEB	PROJECT NO.: 94781	FIGURE 1
CHECKED BY: MJW	DRAWING NO.: LOC	
DRAWN BY: RBT	DATE: 08/11/94	



NOTES:
 1. Datum is NAD 27.
 2. Magnetic contours are in gammas.
 3. Contour interval is 5 gammas.

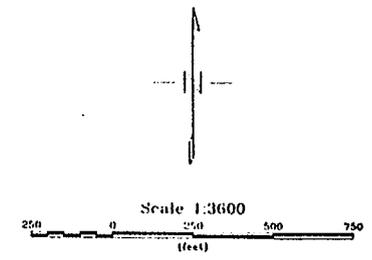
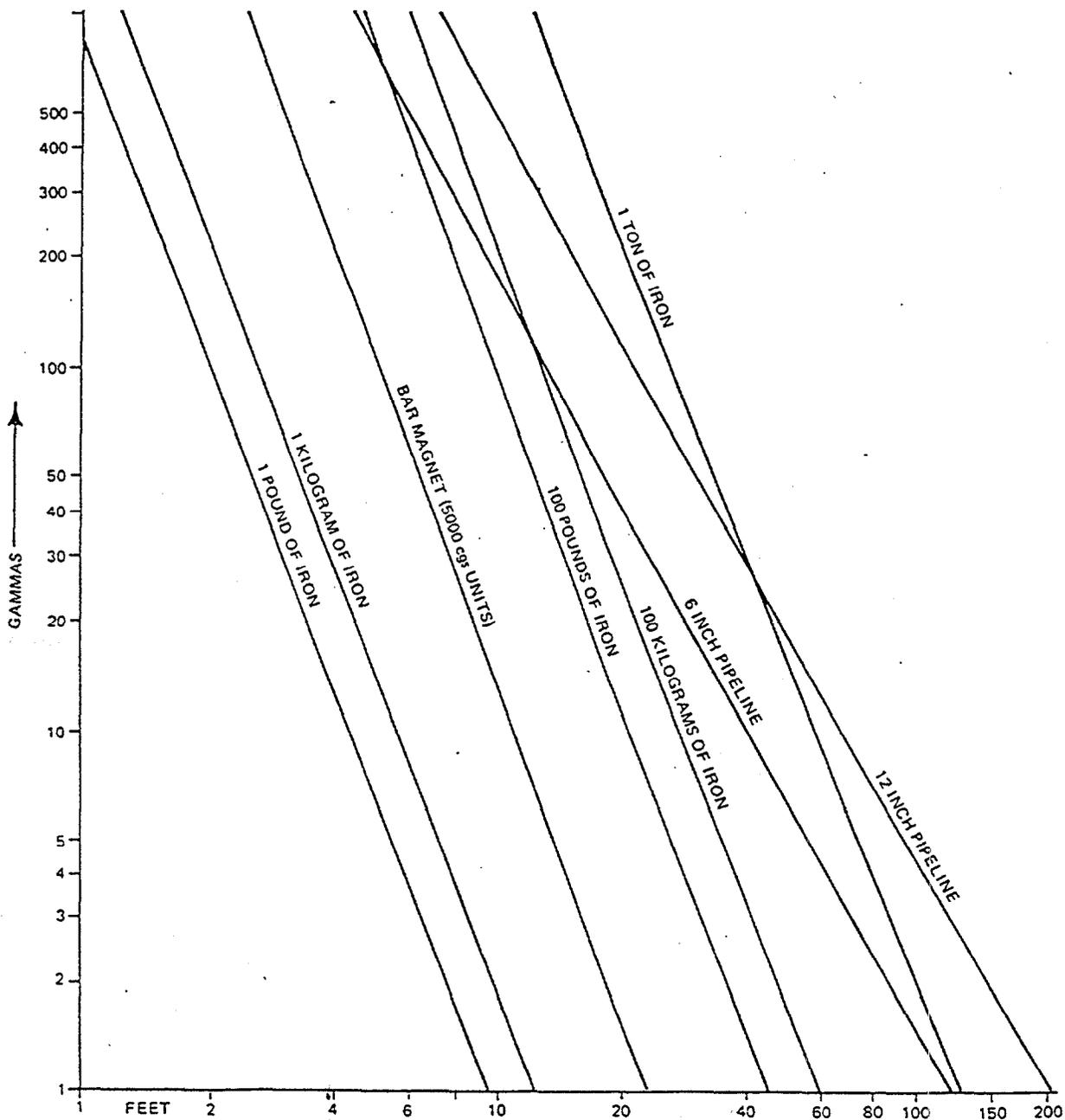


FIGURE 2

SOUTHERN DIVISION
 TOTAL MAGNETIC FIELD CONTOURS
 STUDY AREA 6 - LAKE BALDWIN
 GROUP 1 STUDY AREAS
 ABB ENVIRONMENTAL SERVICES, INC.

APPENDICES

Appendix 1



Nomogram for Estimating Anomalies from Typical Objects (assuming dipole moment $M = 5 \times 10^5$ cgs/ton, i.e., $k = 8$ cgs. Estimates valid only within order of magnitude)

Appendix 2

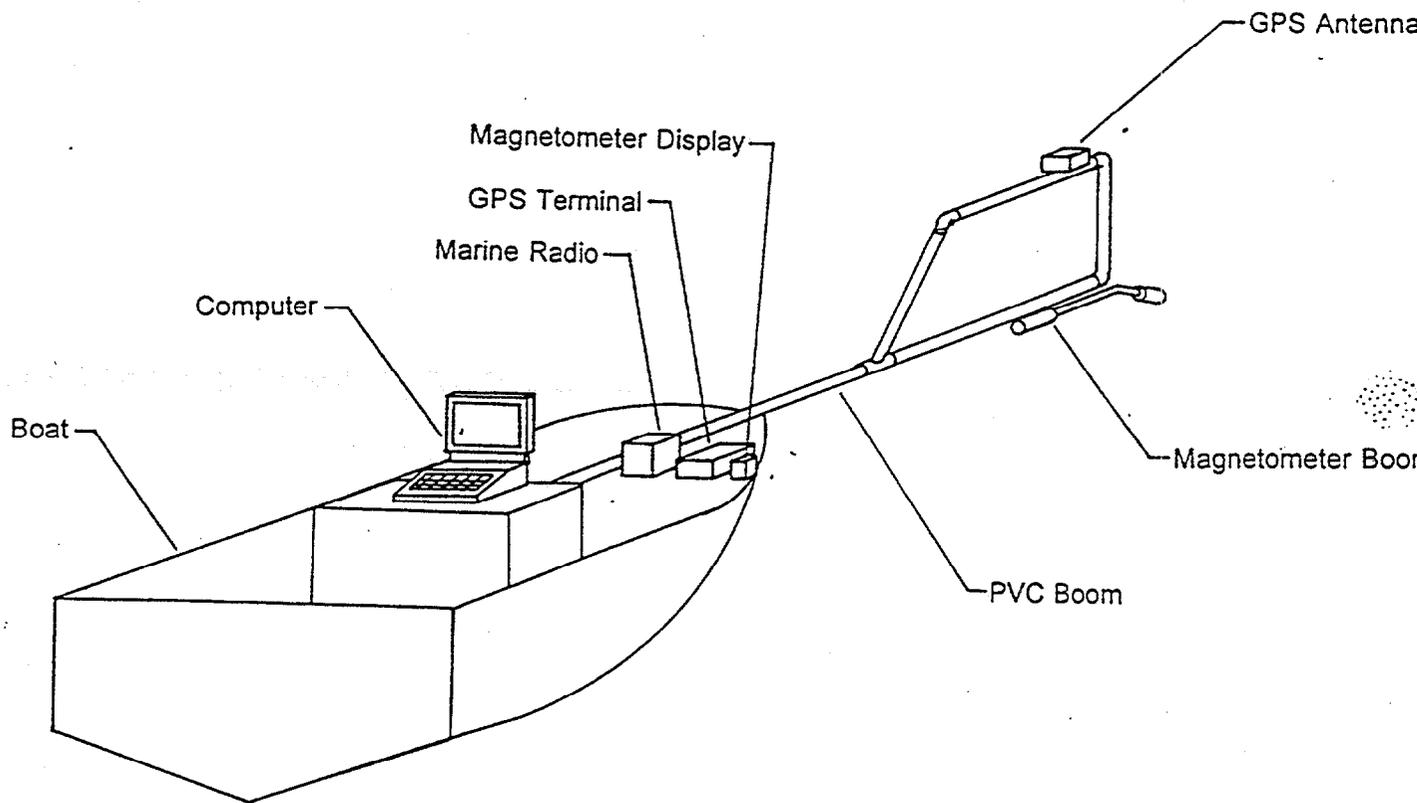
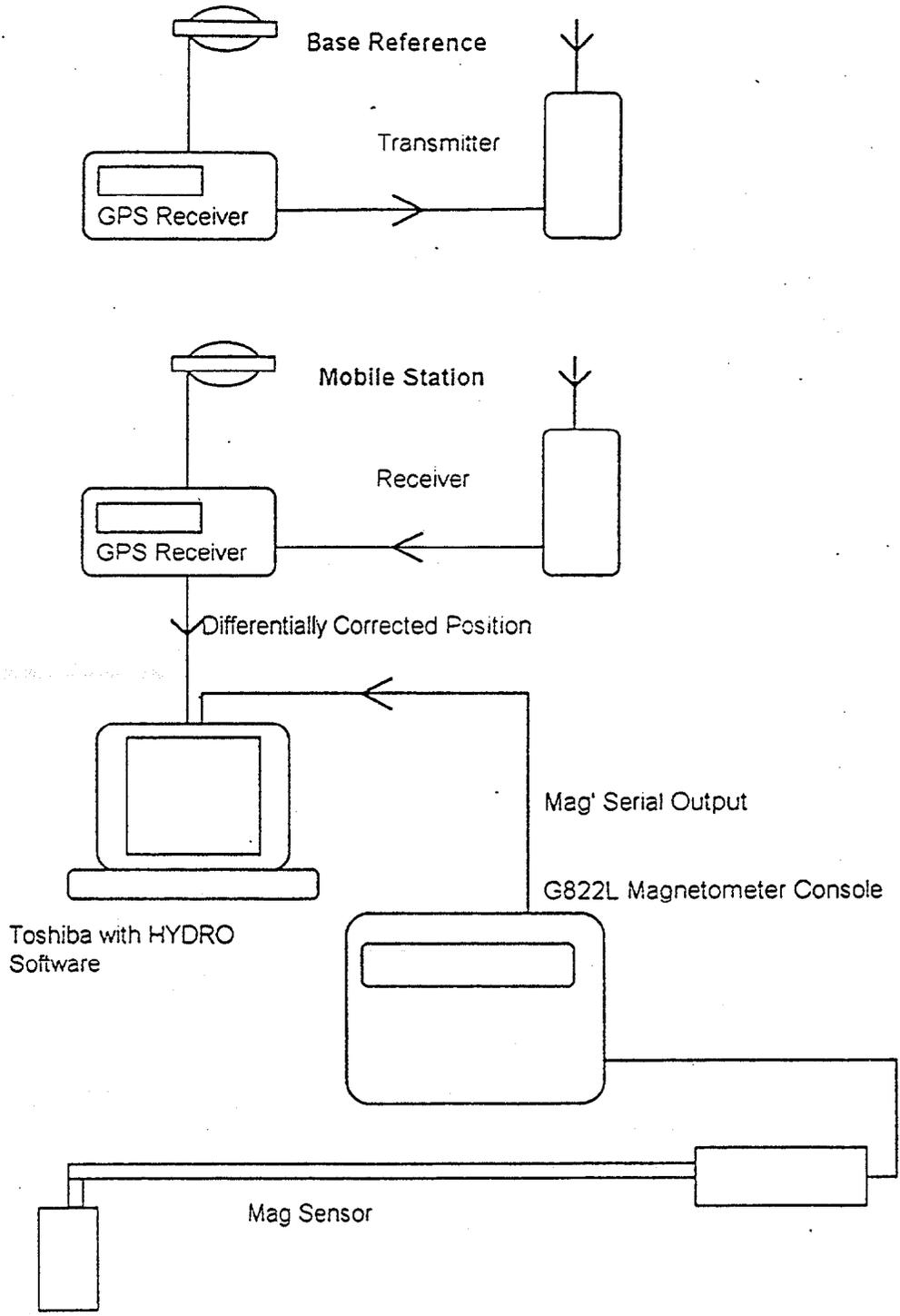


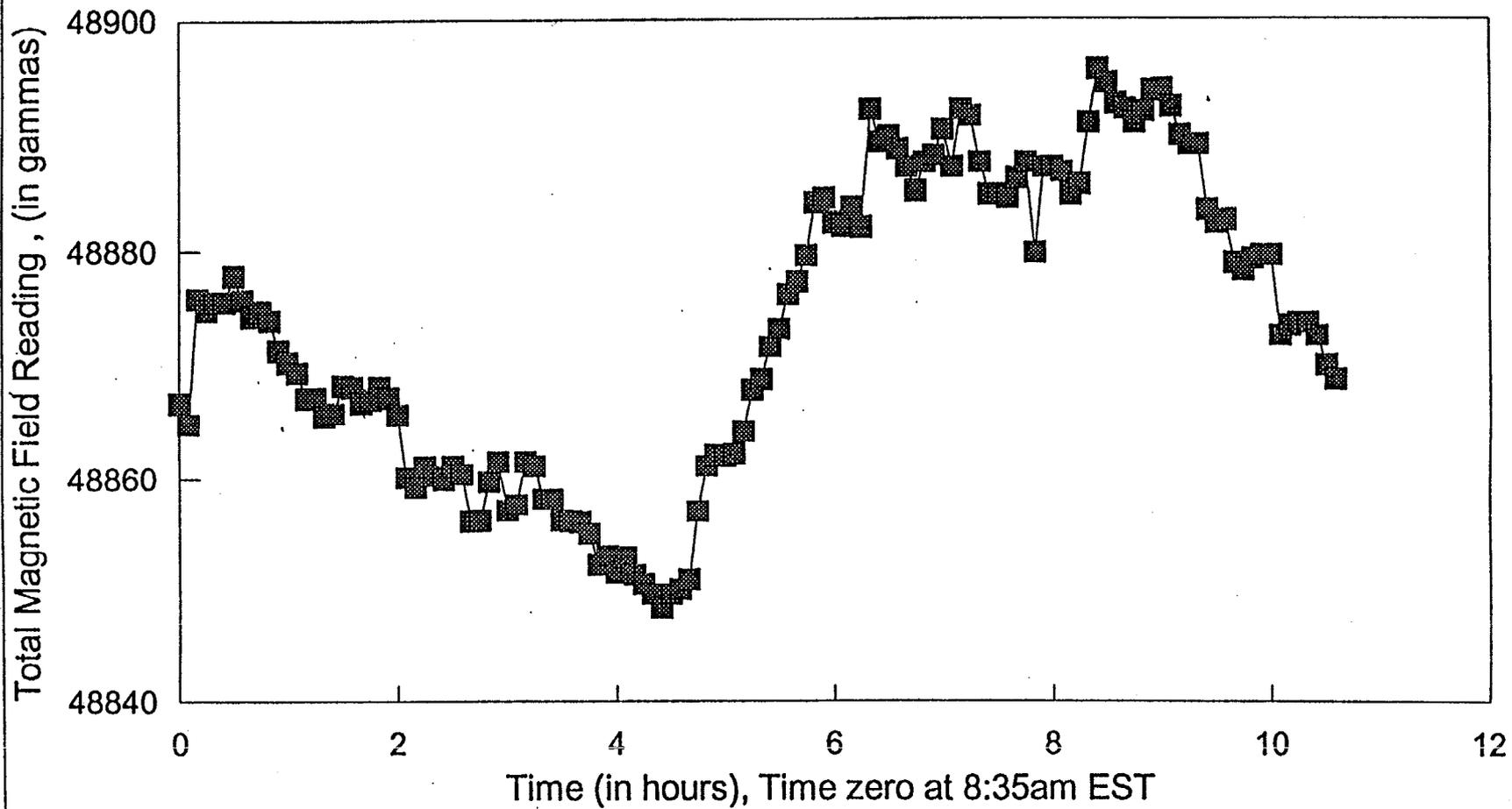
Diagram Showing Set-up of GPS and Magnetometry Equipment on Survey Boat

Appendix 3



Schematic Diagram Showing Lacustrine Magnetometer Survey Equipment Set-up

Diagram Showing Temporal Variation Drift Curve --NTC
(August 11, 1994)



■ Base Station Magnetometer Reading (in gammas)

APPENDIX A-2

**UNDERWATER INVESTIGATION, LAKE BALDWIN,
NTC, ORLANDO, FLORIDA**



LOGAN DIVING, INC.

5731 ST. AUGUSTINE ROAD · CODE 904 731-0000
JACKSONVILLE, FLORIDA 32207

UNDERWATER INVESTIGATION
FOR
ABB ENVIRONMENTAL SERVICES, INC.
LAKE BALDWIN
NTC, ORLANDO, FLORIDA
MAY 25, 1995

Divers were mobilized to Lake Baldwin to investigate seven (7) magnetic disturbances acquired during geophysical studies last year.

Utilizing surface supplied dive gear with hardwire communications, divers searched each site to help determine the cause of the previously located anomalies.

The results of our investigation are as follows:

TARGET #1

Diving investigation of a 60' Ø area centered on target one (1) revealed no steel objects present above the existing groundline.

TARGET #2

Divers located two (2) pieces of steel at this site. The first located was a 2'± portion of a small angle iron and round stock lattice truss. The second item discovered was a 1' X 1-1/2" sash weight.

TARGET #3

Investigation of this site evidenced a 10' X 1 1/2" \emptyset steel pipe with a 3' \emptyset 3/8" round stock circle welded to one end.

TARGET #4

A 6' X 1 1/2" \emptyset section of steel pipe was located at this site. No other steel items were found.

TARGET #5

Search of this site resulted in the recovery of severely corroded portion of a power pole guide wire ground anchor.

TARGET #6

This site was found to have one (1) power pole guide wire anchor protruding approximately 40" out of the groundline. The anchor was still in place and attempts to remove it were unsuccessful.

TARGET #7

Searching this area turned up no steel objects above the existing groundline for 30' out 360° from the target buoy.

TARGET #1 (REPOSITIONED)

Repositioning of target buoy #1 lead to the discovery of what is believed to be small car bumper (6" X 2" X 4').

All sites were methodically searched in a circle pattern out 30' from the target buoy resulting in a 60' \emptyset search area covering 360°.

APPENDIX B

**SUMMARY OF DETECTIONS IN SURFACE WATER AND
SEDIMENT ANALYTICAL RESULTS**

Table B-1
Summary of Detections in Sediment Analytical Results, Inorganics

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier: Sampling Date	Sediment Screening Value ¹	06D00101 15-Sep-94	06D00201 15-Sep-94	06D00301 15-Sep-94	06D00401 15-Sep-94	06D00501 15-Sep-94	06D00601 20-Sep-94	06D00701 20-Sep-94	06D00801 20-Sep-94
Aluminum	ND	632	4,400	3,670	14,900	536	717	1,740	354
Arsenic	6 (1)	--	1.6 B	1.5 B	6.2 B	0.73 B	0.91 B	2.6 B	0.99 B
Barium	ND	4 B	24.6 B	23.8 B	119 B	3.6 B	3.5 B	8.1 B	2.1 B
Beryllium	ND	--	0.14 B	0.16 B	0.59 B	0.06 B	--	--	--
Cadmium	0.6 (1)	0.85 B	--	--	--	0.79 B	--	--	--
Calcium	ND	460 B	892 B	970 B	5,540	363 B	1,480 B	2,940 B	541 B
Chromium	26 (1)	0.9 B	5.3	4.7	15.1	1.3 B	1.4 B	1.8 B	1.3 B
Cobalt	50 (1)	--	--	--	--	--	1.4 B	--	1.2 B
Copper	16 (1)	2 B	4.5 B	3.8 B	20.3 B	1.3 B	5.5 B	2.9 B	1.4 B
Cyanide	0.1 (1)	--	0.24 B	--	0.92 B	0.35 B	--	--	--
Iron	20,000 (1)	136	374	360	2,570	95.8	160	196	89
Lead	30.2 (2)	62 B	11.9	19.7	98.7	54 B	3.4	1.1 B	3.7
Magnesium	ND	40.4 B	114 B	109 B	702 B	34.3 B	89.1 B	212 B	36.3 B
Manganese	460 (1)	1.1 B	2.9 B	2.9 B	16	0.79 B	4.9 B	10	2 B
Mercury	0.13 (2)	--	--	--	--	--	0.05 B	0.06 B	0.03 B
Potassium	ND	--	107 B	--	--	--	--	--	--
Selenium	ND	--	--	0.73 B	2.2 B	--	--	--	--
Sodium	ND	5 B	17.2 B	15.6 B	94.8 B	13.1 B	20 B	196 B	15.8 B
Vanadium	ND	--	3.3 B	2.4 B	11.2 B	--	0.96 B	--	--
Zinc	120 (1)	3.3 B	4.1 B	3.7 B	37.2	2.4 B	7.4	6.3 B	2.9 B

See notes at end of table.

Table B-1 (Continued)
Summary of Detections in Sediment Analytical Results, Inorganics

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier: Sampling Date	Sediment Screening Value ¹	06D00901 20-Sep-94	06D01001 19-Sep-94	06D01101 20-Sep-94	06D01101D 20-Sep-94	06D01201 14-Sep-94	06D01201D 14-Sep-94	06D01301 14-Sep-94	06D01401 14-Sep-94
Aluminum	ND	351	811	290	252	1,620	2,060	1,880	3,540
Arsenic	6 (1)	1.1 B	0.7 B	0.78 B	--	--	0.62 B	--	--
Barium	ND	2.1 B	2.1 B	5.6 B	2.5 B	12.6 B	16.4 B	28.5 B	15.3 B
Beryllium	ND	--	--	--	--	--	--	--	0.16 B
Cadmium	0.6 (1)	--	--	--	--	0.95 B	--	--	--
Calcium	ND	535 B	396 B	9,450	320 B	608 B	649 B	790 B	430 B
Chromium	26 (1)	0.61 B	1.2 B	0.69 B	--	--	2.4 B	--	4
Cobalt	50 (1)	1 B	1.1 B	1 B	--	--	--	--	--
Copper	16 (1)	1.1 B	--	1.1 B	0.82 B	2.8 B	2.3 B	1.5 B	3.8 B
Cyanide	0.1 (1)	--	0.2 B	--	--	--	--	--	--
Iron	20,000 (1)	67.4	40.8	56.9	37.1	168	166	118	117
Lead	30.2 (2)	4.6	1.3	3.4	2.2	4.8 J	5	5 J	3.2 J
Magnesium	ND	33.9 B	19.6 B	25.7 B	19.5 B	49.5 B	42.7 B	23.4 B	41.7 B
Manganese	460 (1)	1.5 B	0.2 B	0.92 B	0.62 B	1.2 B	1.5 B	0.96 B	1.1 B
Mercury	0.13 (2)	0.06	0.11	0.03 B	0.03 B	--	--	--	--
Potassium	ND	--	--	--	--	91.3 B	--	102 B	--
Selenium	ND	--	--	--	--	--	--	0.91 B	0.59 B
Sodium	ND	15.7 B	16.2 B	71.5 B	10.2 B	--	5 B	--	--
Vanadium	ND	--	--	--	--	--	1.7 B	--	--
Zinc	120 (1)	2.3 B	1.2 B	2 B	1.6 B	--	4 B	--	--

See notes at end of table.

Table B-1 (Continued)
Summary of Detections in Sediment Analytical Results, Inorganics

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier: Sampling Date	Sediment Screening Value ¹	06D01501 21-Sep-94	06D01601 20-Sep-94	06D01701 21-Sep-94	06D01801 21-Sep-94	06D01901 21-Sep-94	06D02001 21-Sep-94	06D02001D 21-Sep-94	06D02101 14-Sep-94
Aluminum	ND	565	583	836	568	802	915	831	1,900
Antimony	12 (3)	--	6.6 B	5.2 B	--	--	--	--	--
Arsenic	6 (1)	--	0.68 B	0.97 B	1.6 B	0.59 B	1.1 B	1.6 B	--
Barium	ND	3.9 B	2.5 B	6.2 B	3.8 B	5.3 B	3.1 B	3.2 B	20.1 B
Beryllium	ND	--	--	--	0.06 B	--	--	0.05 B	0.08 B
Cadmium	0.6 (1)	--	--	--	0.07 B	--	0.01 B	--	--
Calcium	ND	394 B	2,740	493 B	685 B	558 B	16,900	46,600	722 B
Chromium	26 (1)	0.93 B	1.3 B	1.5 B	2.2 B	1.5 B	2.5 B	2.5 B	2.2 B
Cobalt	50 (1)	0.92 B	1 B	1.1 B	1.3 B	--	1.2 B	0.96 B	--
Copper	16 (1)	1.4 B	1.2 B	8.6	6.3 B	2.1 B	3.6 B	2.5 B	1.6 B
Cyanide	0.1 (1)	--	0.27 B	--	--	--	--	--	--
Iron	20,000 (1)	93.1	154	276	195	166	512	481	108
Lead	30.2 (2)	4	3.9	12.9	10.7	3	6	5.1	3.1
Magnesium	ND	34.1 B	43.6 B	53.4 B	88.5 B	63.9 B	218 B	456 B	46.8 B
Manganese	460 (1)	0.57 B	1.2 B	2.1 B	1.7 B	1.9 B	3.6 B	5.3	1.3 B
Mercury	0.13 (2)	0.03 B	0.02 B	0.02 B	0.02 B	0.03 B	0.03 B	0.03 B	--
Nickel	15.9 (2)	--	--	--	2.8 B	--	--	--	--
Potassium	ND	--	78.9 B	--	--	--	--	--	--
Sodium	ND	13.7 B	11.3 B	14.2 B	16.9 B	14.1 B	17 B	19.5 B	11.3 B
Vanadium	ND	--	--	--	0.76 B	--	0.88 B	1.3 B	0.97 B
Zinc	120 (1)	3.2 B	9.7	8.7	12	5.4 B	21.2	15.8	2.3 B

See notes at end of table.

Table B-1 (Continued)
Summary of Detections in Sediment Analytical Results, Inorganics

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier: Sampling Date	Sediment Screening Value ¹	06D02201 14-Sep-94	06D02301 14-Sep-94	06D02301D 14-Sep-94	06D02401 20-Sep-94	06D02501 20-Sep-94	06D02601 20-Sep-94	06D02701 20-Sep-94
Aluminum	ND	1,540	1,640	1,660	15,900	2,560	19,700	4,180
Antimony	12 (3)	--	--	--	--	5.5 B	--	--
Arsenic	6 (1)	1.1 B	--	0.87 B	10.3 B	1.6 B	7.4 B	1.2 B
Barium	ND	30.8 B	31.9 B	33.4 B	90.8 B	22.3 B	102 B	60.7
Beryllium	ND	0.07 B	0.06 B	0.08 B	0.76 B	0.11 B	1.1 B	0.09 B
Calcium	ND	8,200	812 B	902 B	6050 B	412 B	5,890 B	966 B
Chromium	26 (1)	4.9	1.5 B	1.5 B	16.6	3.4	20	3.8
Cobalt	50 (1)	--	--	--	7 B	1.4 B	6.2 B	1.1 B
Copper	16 (1)	11.5	3.4 B	15.9	25.5 B	1.8 B	17.6 B	1.9 B
Cyanide	0.1 (1)	--	--	0.25 B	--	--	--	--
Iron	20,000 (1)	541	83.4	185	3,500	301	4,560	303
Lead	30.2 (2)	19.1	2.9	6.8	37.6	2.6	34.2	5.3
Magnesium	ND	139 B	38.7 B	50 B	943 B	75.7 B	1,250 B	94.9 B
Manganese	460 (1)	10.3	1.8 B	2.7 B	22.8 B	1.7 B	25.2 B	2.8 B
Mercury	0.13 (2)	0.28	--	--	0.28 B	0.03 B	0.26 B	0.05 B
Nickel	15.9 (2)	--	--	3.2 B	--	--	--	--
Selenium	ND	--	--	--	4.9 B	0.53 B	8.2 B	--
Sodium	ND	56.5 B	11.1 B	13.8 B	152 B	18.8 B	184 B	20.9 B
Vanadium	ND	2.4 B	1.1 B	--	8.2 B	2 B	10.9 B	1.3 B
Zinc	120 (1)	44.6	5.4 B	9.9	38.2	1.5 B	32.6 B	3.3 B

See notes on following page.

Table B-1 (Continued)
Summary of Detections in Sediment Analytical Results, Inorganics

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

¹ Sediment Screening value is the lowest of (1) Ontario Sediment Quality Guidelines (SQGs) (Persaud et al., 1992), (2) Florida Department of Environmental Protection Sediment Quality Assessment Guidelines (Macdonald, 1994), (3) Region IV SQG (U.S. Environmental Protection Agency, 1994).

Notes: BRAC = Base Realignment and Closure.

ND = not determined.

-- = analyte/compound was not detected at the reporting limit.

B = reported concentration is between the instrument detection limit and the contract-required detection limit.

J = reported concentration is an estimated quantity.

 = bolded/shaded numbers indicate exceedance of sediment screening value.

Analytical results expressed in milligrams per kilogram sediment dry weight.
Results have not been subjected to full independent data validation.

Table B-2
Summary of Detections in Sediment Analytical Results, Organic Compounds

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier: Sampling Date	Sediment Screening Value ¹	06D00101 15-Sep-94	06D00201 15-Sep-94	06D00301 15-Sep-94	06D00401 15-Sep-94	06D00501 15-Sep-94	06D00601 20-Sep-94	06D00701 20-Sep-94	06D00801 20-Sep-94
<u>Volatile Organic Compounds (µg/kg)</u>									
2-Butanone	ND	-	-	-	55	-	-	-	-
<u>Semivolatile Organic Compounds (µg/kg)</u>									
Di-n-butylphthalate	ND	-	-	-	-	-	1,200	1,200	420 J
<u>Pesticides/PCBs (µg/kg)</u>									
4,4'-DDD	1.22 (1)	-	16	-	-	-	-	-	-
4,4'-DDE	2.07 (1)	5	20	10	5	37	-	-	42
See notes at end of table.									

Table B-2 (Continued)
Summary of Detections in Sediment Analytical Results, Organic Compounds

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier: Sampling Date	Sediment Screening Value ¹	06D00901 20-Sep-94	06D01001 19-Sep-94	06D01101 20-Sep-94	06D01101D 20-Sep-94	06D01201 14-Sep-94	06D01201D 14-Sep-94	06D01301 14-Sep-94	06D01401 14-Sep-94
Volatile Organic Compounds (µg/kg)									
2-Butanone	ND	--	5 J	--	--	--	--	--	--
Semivolatile Organic Compounds (µg/kg)									
Di-n-butylphthalate	ND	--	--	--	930	680	530	620	470
Pesticides (µg/kg)									
4,4'-DDD	1.22 (1)	7.5 J	--	--	--	6.2 J	4.6 J	25 J	--
4,4'-DDE	2.07 (1)	2.7 J	--	2 J	1.8 J	3.7 J	2.7 J	--	--
4,4'-DDT	1.19 (1)	--	--	--	--	--	--	120 J	--
See notes at end of table.									

Table B-2 (Continued)
Summary of Detections in Sediment Analytical Results, Organic Compounds

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier: Sampling Date	Sediment Screening Value ¹	06D01501 21-Sep-94	06D01601 20-Sep-94	06D01701 21-Sep-94	06D01801 21-Sep-94	06D01901 21-Sep-94	06D02001 21-Sep-94	06D02001D 21-Sep-94	06D02101 14-Sep-94
Semivolatile Organic Compounds (µg/kg)									
Benzo(a)anthracene	74.8 (1)	--	--	--	--	--	110 J	--	--
Benzo(a)pyrene	88.8 (1)	--	--	--	--	--	120 J	--	--
bis(2-Ethylhexyl)phthalate	182 (1)	--	--	--	540	--	470	380 J	--
Chrysene	108 (1)	--	--	--	--	--	170 J	--	--
Di-n-butylphthalate	ND	450	--	470	520	310 J	430	450	660
Fluoranthene	113 (1)	--	--	--	180 J	--	230 J	130 J	--
Pyrene	153 (1)	--	--	--	170 J	--	270 J	160 J	--
Pesticides (µg/kg)									
4,4'-DDD	1.22 (1)	--	--	5.8	5.6	--	36	41	--
4,4'-DDE	2.07 (1)	3.4 J	--	12	4.6	3.6 J	16	17	--
4,4'-DDT	1.19 (1)	--	--	--	--	--	31	21 J	--
alpha-Chlordane	1.7 (2)	--	--	--	--	--	11	14	--
gamma-Chlordane	1.7 (2)	--	--	--	--	--	14 J	17 J	--
Aroclor-1260	5 (3)	--	--	--	--	--	130 J	--	--
See notes at end of table,									

Table B-2 (Continued)
Summary of Detections in Sediment Analytical Results, Organic Compounds

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier: Sampling Date	Sediment Screening Value ¹	06D02201 14-Sep-94	06D02301 14-Sep-94	06D02301D 14-Sep-94	06D02401 20-Sep-94	06D02501 20-Sep-94	06D02601 20-Sep-94	06D02701 20-Sep-94
Volatile Organic Compounds (µg/kg)								
Acetone	ND	--	--	--	1,300 D	--	2,600 D	--
2-Butanone	ND	--	--	55	--	--	--	--
Semivolatile Organic Compounds (µg/kg)								
Benzo(a)anthracene	74.8 (1)	620	--	--	--	--	--	--
Benzo(a)pyrene	88.8 (1)	690	--	--	--	--	--	--
Benzo(b)fluoranthene	655 (2)	750	--	--	--	--	--	--
Benzo(g,h,i)perylene	655 (2)	620	--	--	--	--	--	--
Benzo(k)fluoranthene	655 (2)	730	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	182 (1)	2,200	--	--	--	--	--	--
Chrysene	108 (1)	1,000	--	--	--	--	--	--
Di-n-butylphthalate	ND	440 J	520	560	--	--	--	300 J
Dibenz(a,h)anthracene	6.22 (1)	260 J	--	--	--	--	--	--
Fluoranthene	113 (1)	1,500	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	655 (2)	590	--	--	--	--	--	--
4-Methylphenol	ND	200 J	--	--	--	--	--	--
Phenanthrene	86.7 (1)	890	--	--	--	--	--	--
Pyrene	153 (1)	1,300	--	--	--	--	--	--
Pesticides (µg/kg)								
4,4'-DDD	1.22 (1)	--	--	8	--	--	--	--
4,4'-DDE	2.07 (1)	--	--	8.6	37	1.2 J	7.4 J	3.4 J
4,4'-DDT	1.19 (1)	--	--	5.3	--	--	4.8	--
See notes on following page.								

Table B-2 (Continued)
Summary of Detections in Sediment Analytical Results, Organic Compounds

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

¹ Sediment screening value is the lowest of (1) Florida Department of Environmental Protection Sediment Quality Assessment Guidelines (MacDonald, 1994), (2) Region IV sediment quality guidelines (SQGs) (U.S. Environmental Protection Agency, 1994), (3) Ontario SQG (Persaud et. al., 1992).

Notes: BRAC = Base Realignment and Closure.

μg/kg = micrograms per kilogram.

ND = not determined.

-- = analyte/compound not detected at the reporting limit.

J = reported concentration is an estimated quantity.

PCBs = polychlorinated biphenyls.

DDD = dichlorodiphenyldichloroethane.

DDE = dichlorodiphenyldichloroethene.

DDT = dichlorodiphenyltrichloroethane.

D = reported concentration is from a dilution analysis of the sample.

■ = bolded/shaded numbers indicate exceedance of Sediment Screening Value.

Results have not been subjected to full independent data validation.

**Table B-3
Summary of Positive Detections in Surface Water Analytical Results**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier: Sampling Date	Surface Water Screening Value ¹	06W00101 22-Sep-94	06W00201 22-Sep-94	06W00301 22-Sep-94	06W00401 22-Sep-94	06W00501 22-Sep-94	06W00601 22-Sep-94
<u>Inorganic Analytes</u>							
Aluminum	87 (2)	58.4 B	60.7 B	54.8 B	59.8 B	46.6 B	58.4 B
Antimony	30 (2)	--	--	--	26.6 B	--	--
Arsenic	50 (1)	2.5 B	2.6 B	--	1.9 B	--	--
Barium	ND	7.3 B	5.8 B	4.1 B	4.5 B	4.8 B	5.4 B
Calcium	ND	16,100	15,400	16,000	15,900	16,400	17,000
Copper (H)	6.7 (1,2,3)	10 B	3.3 B	1.9 B	--	--	3 B
Iron	1,000 (1,2)	13.2 B	12.4 B	10.2 B	12 B	13.1 B	21.5 B
Lead (H)	1.4 (1,2,3)	0.83 B	0.86 B	--	--	--	--
Magnesium	ND	2,380 B	2,290 B	2,360 B	2,370 B	2,390 B	2,450 B
Manganese	ND	5.7 B	4.6 B	5 B	5.2 B	4.8 B	5.4 B
Mercury	0.012 (1,2,3)	0.05 B	0.07 B	--	--	0.05 B	0.05 B
Potassium	ND	1,470 B	1,670 B	1,390 B	1,610 B	1,620 B	1,800 B
Sodium	ND	6,570	6,300	6,590	6,500	6,600	6,810
Vanadium	ND	--	--	--	--	--	2.9 B
Zinc (H)	60 (1,2,3)	4.4 B	2.8 B	3.6 B	3.2 B	3.1 B	4.7 B
<u>Semivolatile Organic Compounds</u>							
Phenol	256 (3)	--	3 J	--	--	--	--
See notes at end of table							

Table B-3 (Continued)
Summary of Positive Detections in Surface Water Analytical Results

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier: Sampling Date	Surface Water Screening Value ¹	06W00601D 22-SEP-94	06W00701 22-SEP-94	06W00801 22-SEP-94	06W00901 21-SEP-94	06W00901D 22-SEP-94
<u>Inorganic Analytes</u>						
Aluminum	87 (2)	62.5 B	62 B	77 B	56.1 B	52.6 B
Arsenic	50 (1)	2.7 B	--	--	3.1 B	1.9 B
Barium	ND	5.3 B	5.7 B	7.6 B	16.1 B	6.8 B
Calcium	ND	16,400	16,200	15,800	12,200	16,200
Chromium	11 (1,2,3)	--	2.5 B	--	--	--
Cobalt	ND	--	--	--	3.6 B	--
Copper (H)	6.7 (1,2,3)	2.5 B	3.4 B	2.7 B	4.8 B	--
Iron	1,000 (1,2)	21.9 B	16.5 B	20.2 B	23.7 B	14.4 B
Lead (H)	1.4 (1,2,3)	--	1.1 B	--	--	1.2 B
Magnesium	ND	2,360 B	2,370 B	2,340 B	1,570 B	2,390 B
Manganese	ND	5 B	4.6 B	5.4 B	2.8 B	5.9 B
Nickel (H)	89 (1,2,3)	--	--	--	10 B	--
Potassium	ND	1,680 B	1,620 B	1,480 B	1,670 B	1,350 B
Sodium	ND	6,540	6,560	6,430	7,250	6,590
Zinc (H)	60 (1,2,3)	2.5 B	5.5 B	3.9 B	5.3 B	2.8 B

¹ Screening value is the lowest of (1) Florida Department of Environmental Protection Class III Surface Water Standards, (2) USEPA Chronic Ambient Water Quality Criteria, (3) Region IV Chronic Freshwater Quality Screening Value.

Notes: BRAC = Base Realignment and Closure.

B = reported concentration is between the instrument detection limit and the contract-required detection limit.

-- = analyte/compound was not detected at reporting limit.

ND = not determined.

J = reported concentration is an estimated quantity.

(H) = hardness; screening value for this chemical is dependant upon water hardness. A hardness of 51 milligrams per liter calcium carbonate was used based on water hardness measured at SA6.

■ = bolded/shaded numbers indicate exceedance of surface water screening value.

Analytical results are expressed in micrograms per liter.

Results have not been subjected to full independent data validation.

APPENDIX C

SUMMARY OF ANALYTICAL RESULTS

Table C-1
Summary of Sediment Analytical Results
Target Compound List Volatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D00101 Sampling Date 15-Sep-94	06D00201 15-Sep-94	06D00301 15-Sep-94	06D00401 15-Sep-94	06D00401RE 15-Sep-94	06D00501 15-Sep-94
1,1,1-Trichloroethane	14 U	15 U	29 U	45 U	45 U	14 U
1,1,2,2-Tetrachloroethane	14 U	15 U	29 U	45 U	45 U	14 U
1,1,2-Trichloroethane	14 U	15 U	29 U	45 U	45 U	14 U
1,1-Dichloroethane	14 U	15 U	29 U	45 U	45 U	14 U
1,1-Dichloroethene	14 U	15 U	29 U	45 U	45 U	14 U
1,2-Dichloroethane	14 U	15 U	29 U	45 U	45 U	14 U
1,2-Dichloroethene (total)	14 U	15 U	29 U	45 U	45 U	14 U
1,2-Dichloropropane	14 U	15 U	29 U	45 U	45 U	14 U
2-Butanone	14 U	15 U	29 U	45 U	55	14 U
2-Hexanone	14 U	15 U	29 U	45 U	45 U	14 U
4-Methyl-2-pentanone	14 U	15 U	29 U	45 U	45 U	14 U
Acetone	80 UJ	26 UJ	29 U	320 UJ	290 UJ	14 U
Benzene	14 U	15 U	29 U	45 U	45 U	14 U
Bromodichloromethane	14 U	15 U	29 U	45 U	45 U	14 U
Bromoform	14 U	15 U	29 U	45 U	45 U	14 U
Bromomethane	14 U	15 U	29 U	45 U	45 U	14 U
Carbon disulfide	14 U	15 U	29 U	45 U	45 U	14 U
Carbon tetrachloride	14 U	15 U	29 U	45 U	45 U	14 U
Chlorobenzene	14 U	15 U	29 U	45 U	45 U	14 U
Chloroethane	14 U	15 U	29 U	45 U	45 U	14 U
Chloroform	14 U	15 U	29 U	45 U	45 U	14 U
Chloromethane	14 U	15 U	29 U	45 U	45 U	14 U
cis-1,3-Dichloropropene	14 U	15 U	29 U	45 U	45 U	14 U
Dibromochloromethane	14 U	15 U	29 U	45 U	45 U	14 U
Ethylbenzene	14 U	15 U	29 U	45 U	45 U	14 U
Methylene chloride	14 U	15 U	29 U	45 U	45 U	14 U
Styrene	14 U	15 U	29 U	45 U	45 U	14 U
Tetrachloroethene	14 U	15 U	29 U	45 U	45 U	14 U
Toluene	14 U	15 U	29 U	45 U	45 U	14 U
trans-1,3-Dichloropropene	14 U	15 U	29 U	45 U	45 U	14 U
Trichloroethene	14 U	15 U	29 U	45 U	45 U	14 U
Vinyl chloride	14 U	15 U	29 U	45 U	45 U	14 U
Xylene (total)	14 U	15 U	29 U	45 U	45 U	14 U

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
 J = Reported concentration is an estimated quantity.

Table C-1 (Continued)
Summary of Sediment Analytical Results
Target Compound List Volatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D00601	06D00701	06D00801	06D00901	06D01001	06D01101
Sampling Date	20-Sep-94	20-Sep-94	20-Sep-94	20-Sep-94	19-Sep-94	20-Sep-94
1,1,1-Trichloroethane	17 U	38 U	14 U	14 U	14 U	13 U
1,1,2,2-Tetrachloroethane	17 U	38 U	14 U	14 U	14 U	13 U
1,1,2-Trichloroethane	17 U	38 U	14 U	14 U	14 U	13 U
1,1-Dichloroethane	17 U	38 U	14 U	14 U	14 U	13 U
1,1-Dichloroethene	17 U	38 U	14 U	14 U	14 U	13 U
1,2-Dichloroethane	17 U	38 U	14 U	14 U	14 U	13 U
1,2-Dichloroethene (total)	17 U	38 U	14 U	14 U	14 U	13 U
1,2-Dichloropropane	17 U	38 U	14 U	14 U	14 U	13 U
2-Butanone	17 U	38 U	14 U	14 U	5 J	13 U
2-Hexanone	17 U	38 U	14 U	14 U	14 U	13 U
4-Methyl-2-pentanone	17 U	38 U	14 U	14 U	14 U	13 U
Acetone	17 U	49 UJ	14 U	14 U	30 UJ	13 U
Benzene	17 U	38 U	14 U	14 U	14 U	13 U
Bromodichloromethane	17 U	38 U	14 U	14 U	14 U	13 U
Bromoform	17 U	38 U	14 U	14 U	14 U	13 U
Bromomethane	17 U	38 U	14 U	14 U	14 U	13 U
Carbon disulfide	17 U	38 U	14 U	14 U	14 U	13 U
Carbon tetrachloride	17 U	38 U	14 U	14 U	14 U	13 U
Chlorobenzene	17 U	38 U	14 U	14 U	14 U	13 U
Chloroethane	17 U	38 U	14 U	14 U	14 U	13 U
Chloroform	17 U	38 U	14 U	14 U	14 U	13 U
Chloromethane	17 U	38 U	14 U	14 U	14 U	13 U
cis-1,3-Dichloropropene	17 U	38 U	14 U	14 U	14 U	13 U
Dibromochloromethane	17 U	38 U	14 U	14 U	14 U	13 U
Ethylbenzene	17 U	38 U	14 U	14 U	14 U	13 U
Methylene chloride	17 U	38 U	14 U	14 U	14 U	13 U
Styrene	17 U	38 U	14 U	14 U	14 U	13 U
Tetrachloroethene	17 U	38 U	14 U	14 U	14 U	13 U
Toluene	17 U	38 U	14 U	14 U	14 U	13 U
trans-1,3-Dichloropropene	17 U	38 U	14 U	14 U	14 U	13 U
Trichloroethene	17 U	38 U	14 U	14 U	14 U	13 U
Vinyl chloride	17 U	38 U	14 U	14 U	14 U	13 U
Xylene (total)	17 U	38 U	14 U	14 U	14 U	13 U

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
 J = Reported concentration is an estimated quantity.

Table C-1 (Continued)
Summary of Sediment Analytical Results
Target Compound List Volatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D01101D Sampling Date 20-Sep-94	06D01201 14-Sep-94	06D01201D 14-Sep-94	06D01301 14-Sep-94	06D01301RE 14-Sep-94	06D01401 14-Sep-94
1,1,1-Trichloroethane	13 U	15 U	15 U	16 UJ	16 UR	14 U
1,1,2,2-Tetrachloroethane	13 U	15 U	15 U	16 UJ	16 UR	14 U
1,1,2-Trichloroethane	13 U	15 U	15 U	16 UJ	16 UR	14 U
1,1-Dichloroethane	13 U	15 U	15 U	16 UJ	16 UR	14 U
1,1-Dichloroethene	13 U	15 U	15 U	16 UJ	16 UR	14 U
1,2-Dichloroethane	13 U	15 U	15 U	16 UJ	16 UR	14 U
1,2-Dichloroethene (total)	13 U	15 U	15 U	16 UJ	16 UR	14 U
1,2-Dichloropropane	13 U	15 U	15 U	16 UJ	16 UR	14 U
2-Butanone	13 U	15 U	15 U	16 UJ	18 UR	14 U
2-Hexanone	13 U	15 U	15 U	16 UJ	16 UR	14 U
4-Methyl-2-pentanone	13 U	15 U	15 U	16 UJ	16 UR	14 U
Acetone	13 U	15 U	15 U	16 UJ	100 UR	14 U
Benzene	13 U	15 U	15 U	16 UJ	16 UR	14 U
Bromodichloromethane	13 U	15 U	15 U	16 UJ	16 UR	14 U
Bromoform	13 U	15 U	15 U	16 UJ	16 UR	14 U
Bromomethane	13 U	15 U	15 U	16 UJ	16 UR	14 U
Carbon disulfide	13 U	15 U	15 U	16 UJ	16 UR	14 U
Carbon tetrachloride	13 U	15 U	15 U	16 UJ	16 UR	14 U
Chlorobenzene	13 U	15 U	15 U	16 UJ	16 UR	14 U
Chloroethane	13 U	15 U	15 U	16 UJ	16 UR	14 U
Chloroform	13 U	15 U	15 U	16 UJ	16 UR	14 U
Chloromethane	13 U	15 U	15 U	16 UJ	16 UR	14 U
cis-1,3-Dichloropropene	13 U	15 U	15 U	16 UJ	16 UR	14 U
Dibromochloromethane	13 U	15 U	15 U	16 UJ	16 UR	14 U
Ethylbenzene	13 U	15 U	15 U	16 UJ	16 UR	14 U
Methylene chloride	13 U	15 U	15 U	10 UJ	16 UR	14 U
Styrene	13 U	15 U	15 U	16 UJ	16 UR	14 U
Tetrachloroethene	13 U	15 U	15 U	16 UJ	16 UR	14 U
Toluene	13 U	15 U	15 U	16 UJ	16 UR	14 U
trans-1,3-Dichloropropene	13 U	15 U	15 U	16 UJ	16 UR	14 U
Trichloroethene	13 U	15 U	15 U	16 UJ	16 UR	14 U
Vinyl chloride	13 U	15 U	15 U	16 UJ	16 UR	14 U
Xylene (total)	13 U	15 U	15 U	16 UJ	16 UR	14 U

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
 J = Reported concentration is an estimated quantity.

Table C-1 (Continued)
Summary of Sediment Analytical Results
Target Compound List Volatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D01501 Sampling Date 21-Sep-94	06D01601 20-Sep-94	06D01701 21-Sep-94	06D01801 21-Sep-94	06D01901 21-Sep-94	06D02001 21-Sep-94
1,1,1-Trichloroethane	14 U	12 U	14 U	14 U	14 U	14 U
1,1,2,2-Tetrachloroethane	14 U	12 U	14 U	14 U	14 U	14 U
1,1,2-Trichloroethane	14 U	12 U	14 U	14 U	14 U	14 U
1,1-Dichloroethane	14 U	12 U	14 U	14 U	14 U	14 U
1,1-Dichloroethene	14 U	12 U	14 U	14 U	14 U	14 U
1,2-Dichloroethane	14 U	12 U	14 U	14 U	14 U	14 U
1,2-Dichloroethene (total)	14 U	12 U	14 U	14 U	14 U	14 U
1,2-Dichloropropane	14 U	12 U	14 U	14 U	14 U	14 U
2-Butanone	14 U	12 U	14 U	14 U	14 U	14 U
2-Hexanone	14 U	12 U	14 U	14 U	14 U	14 U
4-Methyl-2-pentanone	14 U	12 U	14 U	14 U	14 U	14 U
Acetone	14 U	12 U	14 U	9 UJ	14 U	14 U
Benzene	14 U	12 U	14 U	14 U	14 U	14 U
Bromodichloromethane	14 U	12 U	14 U	14 U	14 U	14 U
Bromoform	14 U	12 U	14 U	14 U	14 U	14 U
Bromomethane	14 U	12 U	14 U	14 U	14 U	14 U
Carbon disulfide	14 U	12 U	14 U	14 U	14 U	14 U
Carbon tetrachloride	14 U	12 U	14 U	14 U	14 U	14 U
Chlorobenzene	14 U	12 U	14 U	14 U	14 U	14 U
Chloroethane	14 U	12 U	14 U	14 U	14 U	14 U
Chloroform	14 U	12 U	14 U	14 U	14 U	14 U
Chloromethane	14 U	12 U	14 U	14 U	14 U	14 U
cis-1,3-Dichloropropene	14 U	12 U	14 U	14 U	14 U	14 U
Dibromochloromethane	14 U	12 U	14 U	14 U	14 U	14 U
Ethylbenzene	14 U	12 U	14 U	14 U	14 U	14 U
Methylene chloride	14 U	12 U	14 U	14 U	14 U	14 U
Styrene	14 U	12 U	14 U	14 U	14 U	14 U
Tetrachloroethene	14 U	12 U	14 U	14 U	14 U	14 U
Toluene	14 U	12 U	14 U	14 U	14 U	14 U
trans-1,3-Dichloropropene	14 U	12 U	14 U	14 U	14 U	14 U
Trichloroethene	14 U	12 U	14 U	14 U	14 U	14 U
Vinyl chloride	14 U	12 U	14 U	14 U	14 U	14 U
Xylene (total)	14 U	12 U	14 U	14 U	14 U	14 U

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
 J = Reported concentration is an estimated quantity.

Table C-1 (Continued)
Summary of Sediment Analytical Results
Target Compound List Volatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D02001D Sampling Date 21-Sep-94	06D02101 14-Sep-94	06D02201 14-Sep-94	06D02301 14-Sep-94	06D02301D 14-Sep-94	06D02401 20-Sep-94
1,1,1-Trichloroethane	13 U	14 U	15 U	14 U	14 U	77 U
1,1,2,2-Tetrachloroethane	13 U	14 U	15 U	14 U	14 U	77 U
1,1,2-Trichloroethane	13 U	14 U	15 U	14 U	14 U	77 U
1,1-Dichloroethane	13 U	14 U	15 U	14 U	14 U	77 U
1,1-Dichloroethene	13 U	14 U	15 U	14 U	14 U	77 U
1,2-Dichloroethane	13 U	14 U	15 U	14 U	14 U	77 U
1,2-Dichloroethene (total)	13 U	14 U	15 U	14 U	14 U	77 U
1,2-Dichloropropane	13 U	14 U	15 U	14 U	14 U	77 U
2-Butanone	13 U	14 U	15 U	14 U	14 U	380
2-Hexanone	13 U	14 U	15 U	14 U	14 U	77 U
4-Methyl-2-pentanone	13 U	14 U	15 U	14 U	14 U	77 U
Acetone	11 UJ	14 U	15 U	14 U	14 U	2000 E
Benzene	13 U	14 U	15 U	14 U	14 U	77 U
Bromodichloromethane	13 U	14 U	15 U	14 U	14 U	77 U
Bromoform	13 U	14 U	15 U	14 U	14 U	77 U
Bromomethane	13 U	14 U	15 U	14 U	14 U	77 U
Carbon disulfide	13 U	14 U	15 U	14 U	14 U	77 U
Carbon tetrachloride	13 U	14 U	15 U	14 U	14 U	77 U
Chlorobenzene	13 U	14 U	15 U	14 U	14 U	77 U
Chloroethane	13 U	14 U	15 U	14 U	14 U	77 U
Chloroform	13 U	14 U	15 U	14 U	14 U	77 U
Chloromethane	13 U	14 U	15 U	14 U	14 U	77 U
cis-1,3-Dichloropropene	13 U	14 U	15 U	14 U	14 U	77 U
Dibromochloromethane	13 U	14 U	15 U	14 U	14 U	77 U
Ethylbenzene	13 U	14 U	15 U	14 U	14 U	77 U
Methylene chloride	13 U	14 U	15 U	14 U	14 U	77 U
Styrene	13 U	14 U	15 U	14 U	14 U	77 U
Tetrachloroethene	13 U	14 U	15 U	14 U	14 U	77 U
Toluene	13 U	14 U	15 U	14 U	14 U	77 U
trans-1,3-Dichloropropene	13 U	14 U	15 U	14 U	14 U	77 U
Trichloroethene	13 U	14 U	15 U	14 U	14 U	77 U
Vinyl chloride	13 U	14 U	15 U	14 U	14 U	77 U
Xylene (total)	13 U	14 U	15 U	14 U	14 U	77 U

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).

J = Reported concentration is an estimated quantity.

E = Estimated value, concentration is outside the instrument calibration range.

Table C-1 (Continued)
Summary of Sediment Analytical Results
Target Compound List Volatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D02401DL Sampling Date 20-Sep-94	06D02501 20-Sep-94	06D02601 20-Sep-94	06D02601DL 20-Sep-94	06D02701 20-Sep-94
1,1,1-Trichloroethane	150 U	13 U	91 U	180 U	14 U
1,1,2,2-Tetrachloroethane	150 U	13 U	91 U	180 U	14 U
1,1,2-Trichloroethane	150 U	13 U	91 U	180 U	14 U
1,1-Dichloroethane	150 U	13 U	91 U	180 U	14 U
1,1-Dichloroethene	150 U	13 U	91 U	180 U	14 U
1,2-Dichloroethane	150 U	13 U	91 U	180 U	14 U
1,2-Dichloroethene (total)	150 U	13 U	91 U	180 U	14 U
1,2-Dichloropropane	150 U	13 U	91 U	180 U	14 U
2-Butanone	210 D	13 U	460	480 D	14 U
2-Hexanone	150 U	13 U	91 U	180 U	14 U
4-Methyl-2-pentanone	150 U	13 U	91 U	180 U	14 U
Acetone	1300 D	13 U	2700 E	2600 D	24 UJ
Benzene	150 U	13 U	91 U	180 U	14 U
Bromodichloromethane	150 U	13 U	91 U	180 U	14 U
Bromoform	150 U	13 U	91 U	180 U	14 U
Bromomethane	150 U	13 U	91 U	180 U	14 U
Carbon disulfide	150 U	13 U	91 U	180 U	14 U
Carbon tetrachloride	150 U	13 U	91 U	180 U	14 U
Chlorobenzene	150 U	13 U	91 U	180 U	14 U
Chloroethane	150 U	13 U	91 U	180 U	14 U
Chloroform	150 U	13 U	91 U	180 U	14 U
Chloromethane	150 U	13 U	91 U	180 U	14 U
cis-1,3-Dichloropropene	150 U	13 U	91 U	180 U	14 U
Dibromochloromethane	150 U	13 U	91 U	180 U	14 U
Ethylbenzene	150 U	13 U	91 U	180 U	14 U
Methylene chloride	150 U	13 U	91 U	180 U	14 U
Styrene	150 U	13 U	91 U	180 U	14 U
Tetrachloroethene	150 U	13 U	91 U	180 U	14 U
Toluene	150 U	13 U	91 U	180 U	14 U
trans-1,3-Dichloropropene	150 U	13 U	91 U	180 U	14 U
Trichloroethene	150 U	13 U	91 U	180 U	14 U
Vinyl chloride	150 U	13 U	91 U	180 U	14 U

See notes at end of table.

Table C-1 (Continued)
Summary of Sediment Analytical Results
Target Compound List Volatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D02401DL	06D02501	06D02601	06D02601DL	06D02701
Sampling Date	20-Sep-94	20-Sep-94	20-Sep-94	20-Sep-94	20-Sep-94
Xylene (total)	150 U	13 U	91 U	180 U	14 U

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
 Results have not been subjected to full independent data validation.

- U = Compound not detected at the contract-required quantitation limit (CRQL).
- J = Reported concentration is an estimated quantity.
- E = Estimated value, concentration is outside the instrument calibration range.
- D = Value determined from sample dilution.

**Table C-2
Summary of Sediment Analytical Results
Target Compound List Semivolatile Organics
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06D00101 Sampling Date 15-Sep-94	06D00201 15-Sep-94	06D00301 15-Sep-94	06D00401 15-Sep-94	06D00501 15-Sep-94	06D00601 20-Sep-94
1,2,4-Trichlorobenzene	500 U	490 U	460 U	2200 U	470 U	600 U
1,2-Dichlorobenzene	500 U	490 U	460 U	2200 U	470 U	600 U
1,3-Dichlorobenzene	500 U	490 U	460 U	2200 U	470 U	600 U
1,4-Dichlorobenzene	500 U	490 U	460 U	2200 U	470 U	600 U
2,2'-oxybis(1-Chloropropane)	500 U	490 U	460 U	2200 U	470 U	600 U
2,4,5-Trichlorophenol	1200 U	1200 U	1100 U	5600 U	1200 U	1500 U
2,4,6-Trichlorophenol	500 U	490 U	460 U	2200 U	470 U	600 U
2,4-Dichlorophenol	500 U	490 U	460 U	2200 U	470 U	600 U
2,4-Dimethylphenol	500 U	490 U	460 U	2200 U	470 U	600 U
2,4-Dinitrophenol	1200 U	1200 U	1100 U	5600 U	1200 U	1500 U
2,4-Dinitrotoluene	500 U	490 U	460 U	2200 U	470 U	600 U
2,6-Dinitrotoluene	500 U	490 U	460 U	2200 U	470 U	600 U
2-Chloronaphthalene	500 U	490 U	460 U	2200 U	470 U	600 U
2-Chlorophenol	500 U	490 U	460 U	2200 U	470 U	600 U
2-Methylnaphthalene	500 U	490 U	460 U	2200 U	470 U	600 U
2-Methylphenol	500 U	490 U	460 U	2200 U	470 U	600 U
2-Nitroaniline	1200 U	1200 U	1100 U	5600 U	1200 U	1500 U
2-Nitrophenol	500 U	490 U	460 U	2200 U	470 U	600 U
3,3'-Dichlorobenzidine	500 U	490 U	460 U	2200 U	470 U	600 U
3-Nitroaniline	1200 U	1200 U	1100 U	5600 U	1200 U	1500 U
4,6-Dinitro-2-methylphenol	1200 U	1200 U	1100 U	5600 U	1200 U	1500 U
4-Bromophenyl-phenylether	500 U	490 U	460 U	2200 U	470 U	600 U
4-Chloro-3-methylphenol	500 U	490 U	460 U	2200 U	470 U	600 U
4-Chloroaniline	500 U	490 U	460 U	2200 U	470 U	600 U
4-Chlorophenyl-phenylether	500 U	490 U	460 U	2200 U	470 U	600 U
4-Methylphenol	500 U	490 U	460 U	2200 U	470 U	600 U
4-Nitroaniline	1200 U	1200 U	1100 U	5600 U	1200 U	1500 U
4-Nitrophenol	1200 U	1200 U	1100 U	5600 U	1200 U	1500 U
Acenaphthene	500 U	490 U	460 U	2200 U	470 U	600 U
Acenaphthylene	500 U	490 U	460 U	2200 U	470 U	600 U
Anthracene	500 U	490 U	460 U	2200 U	470 U	600 U
Benzo(a)anthracene	500 U	490 U	460 U	2200 U	470 U	600 U
Benzo(a)pyrene	500 U	490 U	460 U	2200 U	470 U	600 U
Benzo(b)fluoranthene	500 U	490 U	460 U	2200 U	470 U	600 U
Benzo(g,h,i)perylene	500 U	490 U	460 U	2200 U	470 U	600 U
Benzo(k)fluoranthene	500 U	490 U	460 U	2200 U	470 U	600 U

See notes at end of table.

Table C-2 (Continued)
Summary of Sediment Analytical Results
Target Compound List Semivolatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D00101	06D00201	06D00301	06D00401	06D00501	06D00601
Sampling Date	15-Sep-94	15-Sep-94	15-Sep-94	15-Sep-94	15-Sep-94	20-Sep-94
bis(2-Chloroethoxy)methane	500 U	490 U	460 U	2200 U	470 U	600 U
bis(2-Chloroethyl)ether	500 U	490 U	460 U	2200 U	470 U	600 U
bis(2-Ethylhexyl)phthalate	500 U	490 U	460 U	2200 U	470 U	600 U
Butylbenzylphthalate	500 U	490 U	460 U	2200 U	470 U	600 U
Carbazole	500 U	490 U	460 U	2200 U	470 U	600 U
Chrysene	500 U	490 U	460 U	2200 U	470 U	600 U
Di-n-butylphthalate	500 U	490 U	460 U	2200 U	470 U	1200
Di-n-octylphthalate	500 U	490 U	460 U	2200 U	470 U	600 U
Dibenz(a,h)anthracene	500 U	490 U	460 U	2200 U	470 U	600 U
Dibenzofuran	500 U	490 U	460 U	2200 U	470 U	600 U
Diethylphthalate	500 U	490 U	460 U	2200 U	470 U	600 U
Dimethylphthalate	500 U	490 U	460 U	2200 U	470 U	600 U
Fluoranthene	500 U	490 U	460 U	2200 U	470 U	600 U
Fluorene	500 U	490 U	460 U	2200 U	470 U	600 U
Hexachlorobenzene	500 U	490 U	460 U	2200 U	470 U	600 U
Hexachlorobutadiene	500 U	490 U	460 U	2200 U	470 U	600 U
Hexachlorocyclopentadiene	500 U	490 U	460 U	2200 U	470 U	600 U
Hexachloroethane	500 U	490 U	460 U	2200 U	470 U	600 U
Indeno(1,2,3-cd)pyrene	500 U	490 U	460 U	2200 U	470 U	600 U
Isophorone	500 U	490 U	460 U	2200 U	470 U	600 U
N-Nitroso-di-n-propylamine	500 U	490 U	460 U	2200 U	470 U	600 U
N-Nitrosodiphenylamine ¹	500 U	490 U	460 U	2200 U	470 U	600 U
Naphthalene	500 U	490 U	460 U	2200 U	470 U	600 U
Nitrobenzene	500 U	490 U	460 U	2200 U	470 U	600 U
Pentachlorophenol	1200 U	1200 U	1100 U	5600 U	1200 U	1500 U
Phenanthrene	500 U	490 U	460 U	2200 U	470 U	600 U
Phenol	500 U	490 U	460 U	2200 U	470 U	600 U
Pyrene	500 U	490 U	460 U	2200 U	470 U	600 U

¹ Cannot be separated from diphenylamine.

Notes: Analytical results expressed in micrograms per kilograms ($\mu\text{g}/\text{kg}$).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
 J = Reported concentration is an estimated quantity.

Table C-2 (Continued)
Summary of Sediment Analytical Results
Target Compound List Semivolatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D00701	06D00801	06D00901	06D01001	06D01101	06D01101D
Sampling Date	20-Sep-94	20-Sep-94	20-Sep-94	19-Sep-94	20-Sep-94	20-Sep-94
1,2,4-Trichlorobenzene	980 U	420 U	460 U	490 U	430 U	420 U
1,2-Dichlorobenzene	980 U	420 U	460 U	490 U	430 U	420 U
1,3-Dichlorobenzene	980 U	420 U	460 U	490 U	430 U	420 U
1,4-Dichlorobenzene	980 U	420 U	460 U	490 U	430 U	420 U
2,2'-oxybis(1-Chloropropane)	980 U	420 U	460 U	490 U	430 U	420 U
2,4,5-Trichlorophenol	2400 U	1000 U	1200 U	1200 U	1100 U	1000 U
2,4,6-Trichlorophenol	980 U	420 U	460 U	490 U	430 U	420 U
2,4-Dichlorophenol	980 U	420 U	460 U	490 U	430 U	420 U
2,4-Dimethylphenol	980 U	420 U	460 U	490 U	430 U	420 U
2,4-Dinitrophenol	2400 U	1000 U	1200 U	1200 U	1100 U	1000 U
2,4-Dinitrotoluene	980 U	420 U	460 U	490 U	430 U	420 U
2,6-Dinitrotoluene	980 U	420 U	460 U	490 U	430 U	420 U
2-Chloronaphthalene	980 U	420 U	460 U	490 U	430 U	420 U
2-Chlorophenol	980 U	420 U	460 U	490 U	430 U	420 U
2-Methylnaphthalene	980 U	420 U	460 U	490 U	430 U	420 U
2-Methylphenol	980 U	420 U	460 U	490 U	430 U	420 U
2-Nitroaniline	2400 U	1000 U	1200 U	1200 U	1100 U	1000 U
2-Nitrophenol	980 U	420 U	460 U	490 U	430 U	420 U
3,3'-Dichlorobenzidine	980 U	420 U	460 U	490 U	430 U	420 U
3-Nitroaniline	2400 U	1000 U	1200 U	1200 U	1100 U	1000 U
4,6-Dinitro-2-methylphenol	2400 U	1000 U	1200 U	1200 U	1100 U	1000 U
4-Bromophenyl-phenylether	980 U	420 U	460 U	490 U	430 U	420 U
4-Chloro-3-methylphenol	980 U	420 U	460 U	490 U	430 U	420 U
4-Chloroaniline	980 U	420 U	460 U	490 U	430 U	420 U
4-Chlorophenyl-phenylether	980 U	420 U	460 U	490 U	430 U	420 U
4-Methylphenol	980 U	420 U	460 U	490 U	430 U	420 U
4-Nitroaniline	2400 U	1000 U	1200 U	1200 U	1100 U	1000 U
4-Nitrophenol	2400 U	1000 U	1200 U	1200 U	1100 U	1000 U
Acenaphthene	980 U	420 U	460 U	490 U	430 U	420 U
Acenaphthylene	980 U	420 U	460 U	490 U	430 U	420 U
Anthracene	980 U	420 U	460 U	490 U	430 U	420 U
Benzo(a)anthracene	980 U	420 U	460 U	490 U	430 U	420 U
Benzo(a)pyrene	980 U	420 U	460 U	490 U	430 U	420 U
Benzo(b)fluoranthene	980 U	420 U	460 U	490 U	430 U	420 U
Benzo(g,h,i)perylene	980 U	420 U	460 U	490 U	430 U	420 U
Benzo(k)fluoranthene	980 U	420 U	460 U	490 U	430 U	420 U

See notes at end of table.

Table C-2 (Continued)
Summary of Sediment Analytical Results
Target Compound List Semivolatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D00701	06D00801	06D00901	06D01001	06D01101	06D01101D
	20-Sep-94	20-Sep-94	20-Sep-94	19-Sep-94	20-Sep-94	20-Sep-94
bis(2-Chloroethoxy)methane	980 U	420 U	460 U	490 U	430 U	420 U
bis(2-Chloroethyl)ether	980 U	420 U	460 U	490 U	430 U	420 U
bis(2-Ethylhexyl)phthalate	980 U	420 U	460 U	490 U	430 U	420 U
Butylbenzylphthalate	980 U	420 U	460 U	490 U	430 U	420 U
Carbazole	980 U	420 U	460 U	490 U	430 U	420 U
Chrysene	980 U	420 U	460 U	490 U	430 U	420 U
Di-n-butylphthalate	1200	420 J	460 U	490 U	430 U	930
Di-n-octylphthalate	980 U	420 U	460 U	490 U	430 U	420 U
Dibenz(a,h)anthracene	980 U	420 U	460 U	490 U	430 U	420 U
Dibenzofuran	980 U	420 U	460 U	490 U	430 U	420 U
Diethylphthalate	980 U	420 U	460 U	490 U	430 U	420 U
Dimethylphthalate	980 U	420 U	460 U	490 U	430 U	420 U
Fluoranthene	980 U	420 U	460 U	490 U	430 U	420 U
Fluorene	980 U	420 U	460 U	490 U	430 U	420 U
Hexachlorobenzene	980 U	420 U	460 U	490 U	430 U	420 U
Hexachlorobutadiene	980 U	420 U	460 U	490 U	430 U	420 U
Hexachlorocyclopentadiene	980 U	420 U	460 U	490 U	430 U	420 U
Hexachloroethane	980 U	420 U	460 U	490 U	430 U	420 U
Indeno(1,2,3-cd)pyrene	980 U	420 U	460 U	490 U	430 U	420 U
Isophorone	980 U	420 U	460 U	490 U	430 U	420 U
N-Nitroso-di-n-propylamine	980 U	420 U	460 U	490 U	430 U	420 U
N-Nitrosodiphenylamine ¹	980 U	420 U	460 U	490 U	430 U	420 U
Naphthalene	980 U	420 U	460 U	490 U	430 U	420 U
Nitrobenzene	980 U	420 U	460 U	490 U	430 U	420 U
Pentachlorophenol	2400 U	1000 U	1200 U	1200 U	1100 U	1000 U
Phenanthrene	980 U	420 U	460 U	490 U	430 U	420 U
Phenol	980 U	420 U	460 U	490 U	430 U	420 U
Pyrene	980 U	420 U	460 U	490 U	430 U	420 U

¹ Cannot be separated from diphenylamine.

Notes: Analytical results expressed in micrograms per kilogram (µg/kg).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
 J = Reported concentration is an estimated quantity.

Table C-2 (Continued)
Summary of Sediment Analytical Results
Target Compound List Semivolatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D01201	06D01201D	06D01301	06D01401	06D01501	06D01601
	Sampling Date 14-Sep-94	14-Sep-94	14-Sep-94	14-Sep-94	21-Sep-94	20-Sep-94
1,2,4-Trichlorobenzene	460 U	460 U	480 U	440 U	440 U	430 U
1,2-Dichlorobenzene	460 U	460 U	480 U	440 U	440 U	430 U
1,3-Dichlorobenzene	460 U	460 U	480 U	440 U	440 U	430 U
1,4-Dichlorobenzene	460 U	460 U	480 U	440 U	440 U	430 U
2,2'-oxybis(1-Chloropropane)	460 U	460 U	480 U	440 U	440 U	430 U
2,4,5-Trichlorophenol	1100 U	1200 U	1200 U	1100 U	1100 U	1100 U
2,4,6-Trichlorophenol	460 U	460 U	480 U	440 U	440 U	430 U
2,4-Dichlorophenol	460 U	460 U	480 U	440 U	440 U	430 U
2,4-Dimethylphenol	460 U	460 U	480 U	440 U	440 U	430 U
2,4-Dinitrophenol	1100 U	1200 U	1200 U	1100 U	1100 U	1100 U
2,4-Dinitrotoluene	460 U	460 U	480 U	440 U	440 U	430 U
2,6-Dinitrotoluene	460 U	460 U	480 U	440 U	440 U	430 U
2-Chloronaphthalene	460 U	460 U	480 U	440 U	440 U	430 U
2-Chlorophenol	460 U	460 U	480 U	440 U	440 U	430 U
2-Methylnaphthalene	460 U	460 U	480 U	440 U	440 U	430 U
2-Methylphenol	460 U	460 U	480 U	440 U	440 U	430 U
2-Nitroaniline	1100 U	1200 U	1200 U	1100 U	1100 U	1100 U
2-Nitrophenol	460 U	460 U	480 U	440 U	440 U	430 U
3,3'-Dichlorobenzidine	460 U	460 U	480 U	440 U	440 U	430 U
3-Nitroaniline	1100 U	1200 U	1200 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-methylphenol	1100 U	1200 U	1200 U	1100 U	1100 U	1100 U
4-Bromophenyl-phenylether	460 U	460 U	480 U	440 U	440 U	430 U
4-Chloro-3-methylphenol	460 U	460 U	480 U	440 U	440 U	430 U
4-Chloroaniline	460 U	460 U	480 U	440 U	440 U	430 U
4-Chlorophenyl-phenylether	460 U	460 U	480 U	440 U	440 U	430 U
4-Methylphenol	460 U	460 U	480 U	440 U	440 U	430 U
4-Nitroaniline	1100 U	1200 U	1200 U	1100 U	1100 U	1100 U
4-Nitrophenol	1100 U	1200 U	1200 U	1100 U	1100 U	1100 U
Acenaphthene	460 U	460 U	480 U	440 U	440 U	430 U
Acenaphthylene	460 U	460 U	480 U	440 U	440 U	430 U
Anthracene	460 U	460 U	480 U	440 U	440 U	430 U
Benzo(a)anthracene	460 U	460 U	480 U	440 U	440 U	430 U
Benzo(a)pyrene	460 U	460 U	480 U	440 U	440 U	430 U
Benzo(b)fluoranthene	460 U	460 U	480 U	440 U	440 U	430 U
Benzo(g,h,i)perylene	460 U	460 U	480 U	440 U	440 U	430 U
Benzo(k)fluoranthene	460 U	460 U	480 U	440 U	440 U	430 U

See notes at end of table.

Table C-2 (Continued)
Summary of Sediment Analytical Results
Target Compound List Semivolatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D01201 Sampling Date 14-Sep-94	06D01201D 14-Sep-94	06D01301 14-Sep-94	06D01401 14-Sep-94	06D01501 21-Sep-94	06D01601 20-Sep-94
bis(2-Chloroethoxy)methane	460 U	460 U	480 U	440 U	440 U	430 U
bis(2-Chloroethyl)ether	460 U	460 U	480 U	440 U	440 U	430 U
bis(2-Ethylhexyl)phthalate	460 U	460 U	480 U	440 U	440 U	430 U
Butylbenzylphthalate	460 U	460 U	480 U	440 U	440 U	430 U
Carbazole	460 U	460 U	480 U	440 U	440 U	430 U
Chrysene	460 U	460 U	480 U	440 U	440 U	430 U
Di-n-butylphthalate	680	530	620	470	450	430 U
Di-n-octylphthalate	460 U	460 U	480 U	440 U	440 U	430 U
Dibenz(a,h)anthracene	460 U	460 U	480 U	440 U	440 U	430 U
Dibenzofuran	460 U	460 U	480 U	440 U	440 U	430 U
Diethylphthalate	460 U	460 U	480 U	440 U	440 U	430 U
Dimethylphthalate	460 U	460 U	480 U	440 U	440 U	430 U
Fluoranthene	460 U	460 U	480 U	440 U	440 U	430 U
Fluorene	460 U	460 U	480 U	440 U	440 U	430 U
Hexachlorobenzene	460 U	460 U	480 U	440 U	440 U	430 U
Hexachlorobutadiene	460 U	460 U	480 U	440 U	440 U	430 U
Hexachlorocyclopentadiene	460 U	460 U	480 U	440 U	440 U	430 U
Hexachloroethane	460 U	460 U	480 U	440 U	440 U	430 U
Indeno(1,2,3-cd)pyrene	460 U	460 U	480 U	440 U	440 U	430 U
Isophorone	460 U	460 U	480 U	440 U	440 U	430 U
N-Nitroso-di-n-propylamine	460 U	460 U	480 U	440 U	440 U	430 U
N-Nitrosodiphenylamine ¹	460 U	460 U	480 U	440 U	440 U	430 U
Naphthalene	460 U	460 U	480 U	440 U	440 U	430 U
Nitrobenzene	460 U	460 U	480 U	440 U	440 U	430 U
Pentachlorophenol	1100 U	1200 U	1200 U	1100 U	1100 U	1100 U
Phenanthrene	460 U	460 U	480 U	440 U	440 U	430 U
Phenol	460 U	460 U	480 U	440 U	440 U	430 U
Pyrene	460 U	460 U	480 U	440 U	440 U	430 U

¹ Cannot be separated from diphenylamine.

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
 J = Reported concentration is an estimated quantity.

Table C-2 (Continued)
Summary of Sediment Analytical Results
Target Compound List Semivolatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D01701 Sampling Date 21-Sep-94	06D01801 21-Sep-94	06D01901 21-Sep-94	06D02001 21-Sep-94	06D02001D 21-Sep-94	06D02101 14-Sep-94
1,2,4-Trichlorobenzene	440 U	470 U	420 U	410 U	420 U	430 U
1,2-Dichlorobenzene	440 U	470 U	420 U	410 U	420 U	430 U
1,3-Dichlorobenzene	440 U	470 U	420 U	410 U	420 U	430 U
1,4-Dichlorobenzene	440 U	470 U	420 U	410 U	420 U	430 U
2,2'-oxybis(1-Chloropropane)	440 U	470 U	420 U	410 U	420 U	430 U
2,4,5-Trichlorophenol	1100 U	1200 U	1000 U	1000 U	1000 U	1100 U
2,4,6-Trichlorophenol	440 U	470 U	420 U	410 U	420 U	430 U
2,4-Dichlorophenol	440 U	470 U	420 U	410 U	420 U	430 U
2,4-Dimethylphenol	440 U	470 U	420 U	410 U	420 U	430 U
2,4-Dinitrophenol	1100 U	1200 U	1000 U	1000 U	1000 U	1100 U
2,4-Dinitrotoluene	440 U	470 U	420 U	410 U	420 U	430 U
2,6-Dinitrotoluene	440 U	470 U	420 U	410 U	420 U	430 U
2-Chloronaphthalene	440 U	470 U	420 U	410 U	420 U	430 U
2-Chlorophenol	440 U	470 U	420 U	410 U	420 U	430 U
2-Methylnaphthalene	440 U	470 U	420 U	410 U	420 U	430 U
2-Methylphenol	440 U	470 U	420 U	410 U	420 U	430 U
2-Nitroaniline	1100 U	1200 U	1000 U	1000 U	1000 U	1100 U
2-Nitrophenol	440 U	470 U	420 U	410 U	420 U	430 U
3,3'-Dichlorobenzidine	440 U	470 U	420 U	410 U	420 U	430 U
3-Nitroaniline	1100 U	1200 U	1000 U	1000 U	1000 U	1100 U
4,6-Dinitro-2-methylphenol	1100 U	1200 U	1000 U	1000 U	1000 U	1100 U
4-Bromophenyl-phenylether	440 U	470 U	420 U	410 U	420 U	430 U
4-Chloro-3-methylphenol	440 U	470 U	420 U	410 U	420 U	430 U
4-Chloroaniline	440 U	470 U	420 U	410 U	420 U	430 U
4-Chlorophenyl-phenylether	440 U	470 U	420 U	410 U	420 U	430 U
4-Methylphenol	440 U	470 U	420 U	410 U	420 U	430 U
4-Nitroaniline	1100 U	1200 U	1000 U	1000 U	1000 U	1100 U
4-Nitrophenol	1100 U	1200 U	1000 U	1000 U	420 U	1100 U
Acenaphthene	440 U	470 U	420 U	410 U	420 U	430 U
Acenaphthylene	440 U	470 U	420 U	410 U	420 U	430 U
Anthracene	440 U	470 U	420 U	410 U	420 U	430 U
Benzo(a)anthracene	440 U	470 U	420 U	110 J	420 U	430 U
Benzo(a)pyrene	440 U	470 U	420 U	120 J	420 U	430 U
Benzo(b)fluoranthene	440 U	470 U	420 U	410 U	420 U	430 U
Benzo(g,h,i)perylene	440 U	470 U	420 U	410 U	420 U	430 U
Benzo(k)fluoranthene	440 U	470 U	420 U	410 U	420 U	430 U

See notes at end of table.

Table C-2 (Continued)
Summary of Sediment Analytical Results
Target Compound List Semivolatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D01701 Sampling Date 21-Sep-94	06D01801 21-Sep-94	06D01901 21-Sep-94	06D02001 21-Sep-94	06D02001D 21-Sep-94	06D02101 14-Sep-94
bis(2-Chloroethoxy)methane	440 U	470 U	420 U	410 U	420 U	430 U
bis(2-Chloroethyl)ether	440 U	470 U	420 U	410 U	420 U	430 U
bis(2-Ethylhexyl)phthalate	440 U	540	420 U	470	380 J	430 U
Butylbenzylphthalate	440 U	470 U	420 U	410 U	420 U	430 U
Carbazole	440 U	470 U	420 U	410 U	420 U	430 U
Chrysene	440 U	470 U	420 U	170 J	420 U	430 U
Di-n-butylphthalate	470	520	310 J	430	450	660
Di-n-octylphthalate	440 U	470 U	420 U	410 U	420 U	430 U
Dibenz(a,h)anthracene	440 U	470 U	420 U	410 U	420 U	430 U
Dibenzofuran	440 U	470 U	420 U	410 U	420 U	430 U
Diethylphthalate	440 U	470 U	420 U	410 U	420 U	430 U
Dimethylphthalate	440 U	470 U	420 U	410 U	420 U	430 U
Fluoranthene	440 U	180 J	420 U	230 J	130 J	430 U
Fluorene	440 U	470 U	420 U	410 U	420 U	430 U
Hexachlorobenzene	440 U	470 U	420 U	410 U	420 U	430 U
Hexachlorobutadiene	440 U	470 U	420 U	410 U	420 U	430 U
Hexachlorocyclopentadiene	440 U	470 U	420 U	410 U	420 U	430 U
Hexachloroethane	440 U	470 U	420 U	410 U	420 U	430 U
Indeno(1,2,3-cd)pyrene	440 U	470 U	420 U	410 U	420 U	430 U
Isophorone	440 U	470 U	420 U	410 U	420 U	430 U
N-Nitroso-di-n-propylamine	440 U	470 U	420 U	410 U	420 U	430 U
N-Nitrosodiphenylamine ¹	440 U	470 U	420 U	410 U	420 U	430 U
Naphthalene	440 U	470 U	420 U	410 U	420 U	430 U
Nitrobenzene	440 U	470 U	420 U	410 U	420 U	430 U
Pentachlorophenol	1100 U	1200 U	1000 U	1000 U	1000 U	1100 U
Phenanthrene	440 U	470 U	420 U	410 U	420 U	430 U
Phenol	440 U	470 U	420 U	410 U	420 U	430 U
Pyrene	440 U	170 J	420 U	270 J	160 J	430 U

¹ Cannot be separated from diphenylamine.

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
 J = Reported concentration is an estimated quantity.

Table C-2 (Continued)
Summary of Sediment Analytical Results
Target Compound List Semivolatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D02201	06D02301	06D02301D	06D02401	06D02501	06D02601	06D02701
Sampling Date	14-Sep-94	14-Sep-94	14-Sep-94	20-Sep-94	20-Sep-94	20-Sep-94	20-Sep-94
1,2,4-Trichlorobenzene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
1,2-Dichlorobenzene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
1,3-Dichlorobenzene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
1,4-Dichlorobenzene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
2,2'-oxybis(1-Chloropropane)	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
2,4,5-Trichlorophenol	1100 U	1100 U	1000 U	6900 U	1000 U	7600 U	1100 U
2,4,6-Trichlorophenol	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
2,4-Dichlorophenol	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
2,4-Dimethylphenol	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
2,4-Dinitrophenol	1100 U	1100 U	1000 U	6900 U	1000 U	7600 U	1100 U
2,4-Dinitrotoluene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
2,6-Dinitrotoluene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
2-Chloronaphthalene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
2-Chlorophenol	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
2-Methylnaphthalene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
2-Methylphenol	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
2-Nitroaniline	1100 U	1100 U	1000 U	6900 U	1000 U	7600 U	1100 U
2-Nitrophenol	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
3,3'-Dichlorobenzidine	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
3-Nitroaniline	1100 U	1100 U	1000 U	6900 U	1000 U	7600 U	1100 U
4,6-Dinitro-2-methylphenol	1100 U	1100 U	1000 U	6900 U	1000 U	7600 U	1100 U
4-Bromophenyl-phenylether	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
4-Chloro-3-methylphenol	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
4-Chloroaniline	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
4-Chlorophenyl-phenylether	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
4-Methylphenol	200 J	460 U	420 U	2800 U	410 U	3000 U	430 U
4-Nitroaniline	1100 U	1100 U	1000 U	6900 U	1000 U	7600 U	1100 U
4-Nitrophenol	1100 U	1100 U	1000 U	6900 U	1000 U	7600 U	1100 U
Acenaphthene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Acenaphthylene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Anthracene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Benzo(a)anthracene	620	460 U	420 U	2800 U	410 U	3000 U	430 U
Benzo(a)pyrene	690	460 U	420 U	2800 U	410 U	3000 U	430 U
Benzo(b)fluoranthene	750	460 U	420 U	2800 U	410 U	3000 U	430 U
Benzo(g,h,i)perylene	620	460 U	420 U	2800 U	410 U	3000 U	430 U
Benzo(k)fluoranthene	730	460 U	420 U	2800 U	410 U	3000 U	430 U

See notes at end of table.

Table C-2 (Continued)
Summary of Sediment Analytical Results
Target Compound List Semivolatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D02201	06D02301	06D02301D	06D02401	06D02501	06D02601	06D02701
Sampling Date	14-Sep-94	14-Sep-94	14-Sep-94	20-Sep-94	20-Sep-94	20-Sep-94	20-Sep-94
bis(2-Chloroethoxy)methane	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
bis(2-Chloroethyl)ether	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
bis(2-Ethylhexyl)phthalate	2200	460 U	420 U	2800 U	410 U	3000 U	430 U
Butylbenzylphthalate	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Carbazole	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Chrysene	1000	460 U	420 U	2800 U	410 U	3000 U	430 U
Di-n-butylphthalate	440 J	520	560	2800 U	410 U	3000 U	300 J
Di-n-octylphthalate	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Dibenz(a,h)anthracene	260 J	460 U	420 U	2800 U	410 U	3000 U	430 U
Dibenzofuran	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Diethylphthalate	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Dimethylphthalate	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Fluoranthene	1500	460 U	420 U	2800 U	410 U	3000 U	430 U
Fluorene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Hexachlorobenzene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Hexachlorobutadiene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Hexachlorocyclopentadiene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Hexachloroethane	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Indeno(1,2,3-cd)pyrene	590	460 U	420 U	2800 U	410 U	3000 U	430 U
Isophorone	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
N-Nitroso-di-n-propylamine	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
N-Nitrosodiphenylamine ¹	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Naphthalene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Nitrobenzene	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Pentachlorophenol	1100 U	1100 U	1000 U	6900 U	1000 U	7600 U	1100 U
Phenanthrene	590	460 U	420 U	2800 U	410 U	3000 U	430 U
Phenol	450 U	460 U	420 U	2800 U	410 U	3000 U	430 U
Pyrene	1300	460 U	420 U	2800 U	410 U	3000 U	430 U

¹ Cannot be separated from diphenylamine.

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
 J = Reported concentration is an estimated quantity.

**Table C-3
Summary of Sediment Analytical Results
Target Compound List Pesticides/PCBs
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06D00101 Sampling Date 15-Sep-94	06D00201 15-Sep-94	06D00301 15-Sep-94	06D00401 15-Sep-94	06D00501 15-Sep-94	06D00601 20-Sep-94
4,4'-DDD	4.3 U	3.5 J	4.3 U	22 U	4.2 U	5.2 U
4,4'-DDE	5.8	20	16	64	3.7 J	5.2 U
4,4'-DDT	4.3 U	4.5 U	4.3 U	22 U	4.2 U	5.2 U
Aldrin	2.2 U	2.3 U	2.2 U	11 U	2.2 U	2.7 U
alpha-BHC	2.2 U	2.3 U	2.2 U	11 U	2.2 U	2.7 U
alpha-Chlordane	2.2 U	2.3 U	2.2 U	11 U	2.2 U	2.7 U
Aroclor-1016	43 U	45 U	43 U	220 U	42 U	52 U
Aroclor-1221	88 U	91 U	88 U	450 U	85 U	100 U
Aroclor-1232	43 U	45 U	43 U	220 U	42 U	52 U
Aroclor-1242	43 U	45 U	43 U	220 U	42 U	52 U
Aroclor-1248	43 U	45 U	43 U	220 U	42 U	52 U
Aroclor-1254	43 U	45 U	43 U	220 U	42 U	52 U
Aroclor-1260	43 U	45 U	43 U	220 U	42 U	52 U
beta-BHC	2.2 U	2.3 U	2.2 U	11 U	2.2 U	2.7 U
delta-BHC	2.2 U	2.3 U	2.2 U	11 U	2.2 U	2.7 U
Dieldrin	4.3 U	4.5 U	4.3 U	22 U	4.2 U	5.2 U
Endosulfan I	2.2 U	2.3 U	2.2 U	11 U	2.2 U	2.7 U
Endosulfan II	4.3 U	4.5 U	4.3 U	22 U	4.2 U	5.2 U
Endosulfan sulfate	4.3 U	4.5 U	4.3 U	22 U	4.2 U	5.2 U
Endrin	4.3 U	4.5 U	4.3 U	22 U	4.2 U	5.2 U
Endrin aldehyde	4.3 U	4.5 U	4.3 U	22 U	4.2 U	5.2 U
Endrin ketone	4.3 U	4.5 U	4.3 U	22 U	4.2 U	5.2 U
gamma-BHC (Lindane)	2.2 U	2.3 U	2.2 U	11 U	2.2 U	2.7 U
gamma-Chlordane	2.2 U	2.3 U	2.2 U	11 U	2.2 U	2.7 U
Heptachlor	2.2 U	2.3 U	2.2 U	11 U	2.2 U	2.7 U
Heptachlor epoxide	2.2 U	2.3 U	2.2 U	11 U	2.2 U	2.7 U
Methoxychlor	22 U	23 U	22 U	110 U	22 U	27 U
Toxaphene	220 U	230 U	220 U	1100 U	220 U	270 U

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
J = Reported concentration is an estimated quantity.

**Table C-3 (Continued)
Summary of Sediment Analytical Results
Target Compound List Pesticides/PCBs
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06D00701 20-Sep-94	06D00801 20-Sep-94	06D00901 20-Sep-94	06D01001 19-Sep-94	06D01101 20-Sep-94	06D01101D 20-Sep-94
4,4'-DDD	11 U	4.2 U	7.5 J	4.2 U	4.1 U	4.1 U
4,4'-DDE	11 U	4.2 J	2.7 J	4.2 U	2 J	1.8 J
4,4'-DDT	11 U	4.2 U	4.2 U	4.2 U	4.1 U	4.1 U
Aldrin	5.7 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U
alpha-BHC	5.7 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U
alpha-Chlordane	5.7 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U
Aroclor-1016	110 U	42 U	42 U	42 U	41 U	41 U
Aroclor-1221	220 U	85 U	85 U	86 U	84 U	84 U
Aroclor-1232	110 U	42 U	42 U	42 U	41 U	41 U
Aroclor-1242	110 U	42 U	42 U	42 U	41 U	41 U
Aroclor-1248	110 U	42 U	42 U	42 U	41 U	41 U
Aroclor-1254	110 U	42 U	42 U	42 U	41 U	41 U
Aroclor-1260	110 U	42 U	42 U	42 U	41 U	41 U
beta-BHC	5.7 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U
delta-BHC	5.7 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U
Dieldrin	11 U	4.2 U	4.2 U	4.2 U	4.1 U	4.1 U
Endosulfan I	5.7 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U
Endosulfan II	11 U	4.2 U	4.2 U	4.2 U	4.1 U	4.1 U
Endosulfan sulfate	11 U	4.2 U	4.2 U	4.2 U	4.1 U	4.1 U
Endrin	11 U	4.2 U	4.2 U	4.2 U	4.1 U	4.1 U
Endrin aldehyde	11 U	4.2 U	4.2 U	4.2 U	4.1 U	4.1 U
Endrin ketone	11 U	4.2 U	4.2 U	4.2 U	4.1 U	4.1 U
gamma-BHC (Lindane)	5.7 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U
gamma-Chlordane	5.7 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U
Heptachlor	5.7 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U
Heptachlor epoxide	5.7 U	2.2 U	2.2 U	2.2 U	2.1 U	2.1 U
Methoxychlor	57 U	22 U	22 U	22 U	21 U	21 U
Toxaphene	570 U	220 U	220 U	220 U	210 U	210 U

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
J = Reported concentration is an estimated quantity.

**Table C-3 (Continued)
Summary of Sediment Analytical Results
Target Compound List Pesticides/PCBs
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06D01201 Sampling Date 14-Sep-94	06D01201D 14-Sep-94	06D01301 14-Sep-94	06D01401 14-Sep-94	06D01501 21-Sep-94	06D01601 20-Sep-94
4,4'-DDD	6.2 J	4.6 J	25 J	4.2 UJ	4.2 U	4 U
4,4'-DDE	3.7 J	2.7 J	23 UJ	4.2 UJ	3.4 J	4 U
4,4'-DDT	9.3 UJ	8.7 UJ	120 J	4.2 UJ	4.2 U	4 U
Aldrin	4.8 UJ	4.5 UJ	12 UJ	2.2 UJ	2.2 U	2.1 U
alpha-BHC	4.8 UJ	4.5 UJ	12 UJ	2.2 UJ	2.2 U	2.1 U
alpha-Chlordane	4.8 UJ	4.5 UJ	12 UJ	2.2 UJ	2.2 U	2.1 U
Aroclor-1016	93 UJ	87 UJ	230 UJ	42 UJ	42 U	40 U
Aroclor-1221	190 UJ	180 UJ	470 UJ	86 UJ	85 U	82 U
Aroclor-1232	93 UJ	87 UJ	230 UJ	42 UJ	42 U	40 U
Aroclor-1242	93 UJ	87 UJ	230 UJ	42 UJ	42 U	40 U
Aroclor-1248	93 UJ	87 UJ	230 UJ	42 UJ	42 U	40 U
Aroclor-1254	93 UJ	87 UJ	230 UJ	42 UJ	42 U	40 U
Aroclor-1260	93 UJ	87 UJ	230 UJ	42 UJ	42 U	40 U
beta-BHC	4.8 UJ	4.5 UJ	12 UJ	2.2 UJ	2.2 U	2.1 U
delta-BHC	4.8 UJ	4.5 UJ	12 UJ	2.2 UJ	2.2 U	2.1 U
Dieldrin	9.3 UJ	8.7 UJ	23 UJ	4.2 UJ	4.2 U	4 U
Endosulfan I	4.8 UJ	4.5 UJ	12 UJ	2.2 UJ	2.2 U	2.1 U
Endosulfan II	9.3 UJ	8.7 UJ	23 UJ	4.2 UJ	4.2 U	4 U
Endosulfan sulfate	9.3 UJ	8.7 UJ	23 UJ	4.2 UJ	4.2 U	4 U
Endrin	9.3 UJ	8.7 UJ	23 UJ	4.2 UJ	4.2 U	4 U
Endrin aldehyde	9.3 UJ	8.7 UJ	23 UJ	4.2 UJ	4.2 U	4 U
Endrin ketone	9.3 UJ	8.7 UJ	23 UJ	4.2 UJ	4.2 U	4 U
gamma-BHC (Lindane)	4.8 UJ	4.5 UJ	12 UJ	2.2 UJ	2.2 U	2.1 U
gamma-Chlordane	4.8 UJ	4.5 UJ	12 UJ	2.2 UJ	2.2 U	2.1 U
Heptachlor	4.8 UJ	4.5 UJ	12 UJ	2.2 UJ	2.2 U	2.1 U
Heptachlor epoxide	4.8 UJ	4.5 UJ	12 UJ	2.2 UJ	2.2 U	2.1 U
Methoxychlor	48 UJ	45 UJ	120 UJ	22 UJ	22 U	21 U
Toxaphene	480 UJ	450 UJ	1200 UJ	220 UJ	220 U	210 U

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
J = Reported concentration is an estimated quantity.

Table C-3 (Continued)
Summary of Sediment Analytical Results
Target Compound List Pesticides/PCBs
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D01701 Sampling Date 21-Sep-94	06D01801 21-Sep-94	06D01901 21-Sep-94	06D02001 21-Sep-94	06D02001D 21-Sep-94	06D02101 14-Sep-94
4,4'-DDD	5.8	5.6	4.1 U	36	41	4.2 U
4,4'-DDE	12	4.6	3.5 J	16	17	4.2 U
4,4'-DDT	4.1 U	4.3 U	4.1 U	31	21 J	4.2 U
Aldrin	2.1 U	2.2 U	2.1 U	4.2 U	4.2 U	2.2 U
alpha-BHC	2.1 U	2.2 U	2.1 U	4.2 U	4.2 U	2.2 U
alpha-Chlordane	2.1 U	2.2 U	2.1 U	11	14	2.2 U
Aroclor-1016	41 U	43 U	41 U	81 U	81 U	42 U
Aroclor-1221	84 U	87 U	84 U	170 U	170 U	85 U
Aroclor-1232	41 U	43 U	41 U	81 U	81 U	42 U
Aroclor-1242	41 U	43 U	41 U	81 U	81 U	42 U
Aroclor-1248	41 U	43 U	41 U	81 U	81 U	42 U
Aroclor-1254	41 U	43 U	41 U	81 U	81 U	42 U
Aroclor-1260	41 U	43 U	41 U	130 J	81 U	42 U
beta-BHC	2.1 U	2.2 U	2.1 U	4.2 U	4.2 U	2.2 U
delta-BHC	2.1 U	2.2 U	2.1 U	4.2 U	4.2 U	2.2 U
Dieldrin	4.1 U	4.3 U	4.1 U	8.1 U	8.1 U	4.2 U
Endosulfan I	2.1 U	2.2 U	2.1 U	4.2 U	4.2 U	2.2 U
Endosulfan II	4.1 U	4.3 U	4.1 U	8.1 U	8.1 U	4.2 U
Endosulfan sulfate	4.1 U	4.3 U	4.1 U	8.1 U	8.1 U	4.2 U
Endrin	4.1 U	4.3 U	4.1 U	8.1 U	8.1 U	4.2 U
Endrin aldehyde	4.1 U	4.3 U	4.1 U	8.1 U	8.1 U	4.2 U
Endrin ketone	4.1 U	4.3 U	4.1 U	8.1 U	8.1 U	4.2 U
gamma-BHC (Lindane)	2.1 U	2.2 U	2.1 U	4.2 U	4.2 U	2.2 U
gamma-Chlordane	2.1 U	2.2 U	2.1 U	14 J	17 J	2.2 U
Heptachlor	2.1 U	2.2 U	2.1 U	4.2 U	4.2 U	2.2 U
Heptachlor epoxide	2.1 U	2.2 U	2.1 U	4.2 U	4.2 U	2.2 U
Methoxychlor	21 U	22 U	21 U	42 U	42 U	22 U
Toxaphene	210 U	220 U	210 U	420 U	420 U	220 U

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
 J = Reported concentration is an estimated quantity.

Table C-3 (Continued)
Summary of Sediment Analytical Results
Target Compound List Pesticides/PCBs
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D02201	06D02301	06D02301D	06D02401	06D02501	06D02601	06D02701
Sampling Date	14-Sep-94	14-Sep-94	14-Sep-94	20-Sep-94	20-Sep-94	20-Sep-94	20-Sep-94
4,4'-DDD	46 U	4.5 U	7.7	25 U	4.1 U	18 U	4.2 U
4,4'-DDE	46 U	4.5 U	8.6	37	1.3 J	7.4 J	3.4 J
4,4'-DDT	46 U	4.5 U	5.1 J	25 U	4.1 U	48	4.2 U
Aldrin	24 U	2.3 U	2.2 U	13 U	2.1 U	9.4 U	2.2 U
alpha-BHC	24 U	2.3 U	2.2 U	13 U	2.1 U	9.4 U	2.2 U
alpha-Chlordane	24 U	2.3 U	2.2 U	13 U	2.1 U	9.4 U	2.2 U
Aroclor-1016	460 U	45 U	43 U	250 U	41 U	180 U	42 U
Aroclor-1221	930 U	92 U	87 U	520 U	83 U	370 U	85 U
Aroclor-1232	460 U	45 U	43 U	250 U	41 U	180 U	42 U
Aroclor-1242	460 U	45 U	43 U	250 U	41 U	180 U	42 U
Aroclor-1248	460 U	45 U	43 U	250 U	41 U	180 U	42 U
Aroclor-1254	460 U	45 U	43 U	250 U	41 U	180 U	42 U
Aroclor-1260	460 U	45 U	43 U	250 U	41 U	180 U	42 U
beta-BHC	24 U	2.3 U	2.2 U	13 U	2.1 U	9.4 U	2.2 U
delta-BHC	24 U	2.3 U	2.2 U	13 U	2.1 U	9.4 U	2.2 U
Dieldrin	46 U	4.5 U	4.3 U	25 U	4.1 U	18 U	4.2 U
Endosulfan I	24 U	2.3 U	2.2 U	13 U	2.1 U	9.4 U	2.2 U
Endosulfan II	46 U	4.5 U	4.3 U	25 U	4.1 U	18 U	4.2 U
Endosulfan sulfate	46 U	4.5 U	4.3 U	25 U	4.1 U	18 U	4.2 U
Endrin	46 U	4.5 U	4.3 U	25 U	4.1 U	18 U	4.2 U
Endrin aldehyde	46 U	4.5 U	4.3 U	25 U	4.1 U	18 U	4.2 U
Endrin ketone	46 U	4.5 U	4.3 U	25 U	4.1 U	18 U	4.2 U
gamma-BHC (Lindane)	24 U	2.3 U	2.2 U	13 U	2.1 U	9.4 U	2.2 U
gamma-Chlordane	24 U	2.3 U	2.2 U	13 U	2.1 U	9.4 U	2.2 U
Heptachlor	24 U	2.3 U	2.2 U	13 U	2.1 U	9.4 U	2.2 U
Heptachlor epoxide	24 U	2.3 U	2.2 U	13 U	2.1 U	9.4 U	2.2 U
Methoxychlor	240 U	23 U	22 U	130 U	21 U	94 U	22 U
Toxaphene	2400 U	230 U	220 U	1300 U	210 U	940 U	220 U

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
 J = Reported concentration is an estimated quantity.

**Table C-4
Summary of Sediment Analytical Results
Herbicides - Method 8150
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06D00101	06D00201	06D00301	06D00401	06D00501	06D00601
Sampling Date	15-Sep-94	15-Sep-94	15-Sep-94	15-Sep-94	15-Sep-94	20-Sep-94
2,4,5-T	26 U	27 U	13 U	130 U	26 U	16 U
2,4-D	130 U	140 U	66 U	670 U	130 U	160 U
2,4-DB	130 U	140 U	66 U	670 U	130 U	78 U
2,4-DP (Dichloroprop)	130 U	140 U	66 U	670 U	130 U	78 U
Dalapon	260 U	270 U	130 U	1300 U	260 U	160 U
Dicamba	26 U	27 U	13 U	130 U	26 U	16 U
Dinoseb	26 U	27 U	13 U	130 U	26 U	16 U
MCPA	26000 U	27000 U	6600 U	130000 U	63000 U	78000 U
MCPP	66000 U	68000 U	6600 U	67000 U	13000 U	16000 U
Silvex (2,4,5-TP)	26 U	27 U	13 U	130 U	26 U	16 U

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
Results have not been subjected to full independent data validation.

U = Compound not detected at the quantitation limit (QL).

J = Reported concentration is an estimated quantity.

**Table C-4 (Continued)
Summary of Sediment Analytical Results
Herbicides - Method 8150
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06D00701 Sampling Date 20-Sep-94	06D00801 20-Sep-94	06D00901 20-Sep-94	06D01001 19-Sep-94	06D01101 20-Sep-94	06D01101D 20-Sep-94
2,4,5-T	33 U	13 U	13 U	13 U	13 U	13 U
2,4-D	330 U	63 U	63 U	64 U	63 U	63 U
2,4-DB	170 U	63 U	63 U	64 U	63 U	63 U
2,4-DP (Dichloroprop)	170 U	63 U	63 U	64 U	63 U	63 U
Dalapon	330 U	130 U	130 U	130 U	130 U	130 U
Dicamba	33 U	13 U	13 U	13 U	13 U	13 U
Dinoseb	33 U	13 U	13 U	13 U	13 U	13 U
MCPA	66000 U	13000 U	13000 U	13000 U	25000 U	25000 U
MCPP	66000 U	13000 U	6300 U	6400 U	6300 U	25000 U
Silvex (2,4,5-TP)	33 U	13 U	13 U	13 U	13 U	13 U

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
Results have not been subjected to full independent data validation.

U = Compound not detected at the quantitation limit (QL).

J = Reported concentration is an estimated quantity.

**Table C-4 (Continued)
Summary of Sediment Analytical Results
Herbicides - Method 8150
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06D01201	06D01201D	06D01301	06D01401	06D01501	06D01601
Sampling Date	14-Sep-94	14-Sep-94	14-Sep-94	14-Sep-94	21-Sep-94	20-Sep-94
2,4,5-T	14 U	26 U	28 U	26 U	13 U	12 U
2,4-D	140 U	130 U	280 U	130 U	63 U	61 U
2,4-DB	280 U	130 U	140 U	130 U	63 U	61 U
2,4-DP (Dichloroprop)	70 U	130 U	140 U	130 U	63 U	61 U
Dalapon	140 U	260 U	280 U	260 U	130 U	120 U
Dicamba	14 U	26 U	28 U	26 U	13 U	12 U
Dinoseb	14 U	26 U	28 U	26 U	13 U	12 U
MCPA	35000 U	13000 U	70000 U	12800 U	13000 U	6100 U
MCPP	7000 U	13000 U	28000 U	12800 U	13000 U	6100 U
Silvex (2,4,5-TP)	14 U	26 U	28 U	26 U	13 U	12 U

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
Results have not been subjected to full independent data validation.

U = Compound not detected at the quantitation limit (QL).
J = Reported concentration is an estimated quantity.

Table C-4 (Continued)
Summary of Sediment Analytical Results
Herbicides - Method 8150
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D01701 Sampling Date 21-Sep-94	06D01801 21-Sep-94	06D01901 21-Sep-94	06D02001 21-Sep-94	06D02001D 21-Sep-94	06D02101 14-Sep-94
2,4,5-T	13 U	13 U	13 U	12 U	12 U	26 U
2,4-D	63 U	65 U	63 U	62 U	62 U	130 U
2,4-DB	63 U	65 U	63 U	62 U	62 U	130 U
2,4-DP (Dichloroprop)	63 U	65 U	63 U	62 U	62 U	130 U
Dalapon	130 U	130 U	130 U	120 U	120 U	260 U
Dicamba	13 U	13 U	13 U	12 U	12 U	26 U
Dinoseb	13 U	13 U	13 U	12 U	12 U	126 U
MCPA	12000 U	13000 U	19000 U	6200 U	6200 U	25000 U
MCPP	12000 U	13000 U	6300 U	6200 U	6200 U	25000 U
Silvex (2,4,5-TP)	13 U	13 U	13 U	12 U	12 U	26 U

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the quantitation limit (QL).
 J = Reported concentration is an estimated quantity.

**Table C-4 (Continued)
Summary of Sediment Analytical Results
Herbicides - Method 8150
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06D02201	06D02301	06D02301D	06D02401	06D02501	06D02601	06D02701
Sampling Date	14-Sep-94	14-Sep-94	14-Sep-94	20-Sep-94	20-Sep-94	20-Sep-94	20-Sep-94
2,4,5-T	28 U	28 U	26 U	77 U	12 U	83 U	13 U
2,4-D	140 U	140 U	130 U	380 U	62 U	420 U	63 U
2,4-DB	140 U	140 U	130 U	380 U	62 U	420 U	63 U
2,4-DP (Dichloroprop)	140 U	140 U	130 U	380 U	62 U	420 U	63 U
Dalapon	280 U	280 U	260 U	770 U	120 U	830 U	130 U
Dicamba	28 U	28 U	26 U	77 U	12 U	83 U	13 U
Dinoseb	28 U	28 U	26 U	77 U	12 U	83 U	13 U
MCPA	14000 U	27000 U	13000 U	130000 U	31000 U	83000 U	51000 U
MCPP	14000 U	27000 U	26000 U	77000 U	12000 U	83000 U	25000 U
Silvex (2,4,5-TP)	28 U	28 U	26 U	77 U	12 U	83 U	13 U

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
Results have not been subjected to full independent data validation.

U = Compound not detected at the quantitation limit (QL).

J = Reported concentration is an estimated quantity.

**Table C-5
Summary of Sediment Analytical Results
Target Analyte List Metals
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06D00101 Sampling Date 15-Sep-94	06D00201 15-Sep-94	06D00301 15-Sep-94	06D00401 15-Sep-94	06D00501 15-Sep-94	06D00601 20-Sep-94
Aluminum	632	4400	3670	14900	536	717
Antimony	5.6 U	5.7 U	5.7 U	19.5 U	5.2 U	6.9 U
Arsenic	0.54 U	1.6 B	1.5 B	6.2 B	0.73 B	0.91 B
Barium	4 B	24.6 B	23.8 B	119 B	3.6 B	3.5 B
Beryllium	0.06 U	0.14 B	0.16 B	0.59 B	0.06 B	0.07 U
Cadmium	0.85 B	0.86 U	0.85 U	2.9 U	0.79 B	1 U
Calcium	460 B	892 B	970 B	5540	363 B	1480 B
Chromium	0.9 B	5.3	4.7	15.1	1.3 B	1.4 B
Cobalt	0.86 U	0.88 U	0.88 U	3 U	0.8 U	1.4 B
Copper	2 B	4.5 B	3.8 B	20.3 B	1.3 B	5.5 B
Cyanide	0.21 U	0.24 B	0.21 U	0.92 B	0.35 B	0.26 U
Iron	136	374	360	2570	95.8	160
Lead	62.8	11.9	19.7	98.7	54.8	3.4
Magnesium	40.4 B	114 B	109 B	702 B	34.3 B	89.1 B
Manganese	1.1 B	2.9 B	2.9 B	16	0.79 B	4.9 B
Mercury	0.02 U	0.02 U	0.02 U	0.06 U	0.02 U	0.05 B
Nickel	2.6 U	2.7 U	2.7 U	9.3 U	2.5 U	3.3 U
Potassium	86.6 U	107 B	88.4 U	303 U	80.7 U	107 U
Selenium	0.57 U	0.58 U	0.73 B	2.2 B	0.53 U	0.7 U
Silver	0.74 U	0.76 U	0.76 U	2.6 U	0.69 U	0.92 U
Sodium	5 B	17.2 B	15.6 B	94.8 B	13.1 B	20 B
Thallium	3.7 U	3.8 U	0.38 U	1.3 U	0.35 U	0.46 U
Vanadium	0.76 U	3.3 B	2.4 B	11.2 B	0.71 U	0.96 B
Zinc	3.3 B	4.1 B	3.7 B	37.2	2.4 B	7.4

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
Results have not been subjected to full independent data validation.

U = Analyte not detected at the reporting limit.

B = Reported concentration is between the instrument detection limit (IDL) and the contract-required detection limit (CRDL).

**Table C-5 (Continued)
Summary of Sediment Analytical Results
Target Analyte List Metals
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06D00701	06D00801	06D00901	06D01001	06D01101	06D01101D
Sampling Date	20-Sep-94	20-Sep-94	20-Sep-94	19-Sep-94	20-Sep-94	20-Sep-94
Aluminum	1740	354	351	811	290	252
Antimony	12.4 U	5.3 U	5.2 U	5.2 U	5 U	5 U
Arsenic	2.6 B	0.99 B	1.1 B	0.7 B	0.78 B	0.48 U
Barium	8.1 B	2.1 B	2.1 B	2.1 B	5.6 B	2.5 B
Beryllium	0.13 U	0.06 U	0.06 U	0.06 U	0.05 U	0.05 U
Cadmium	1.9 U	0.8 U	0.78 U	0.79 U	0.76 U	0.75 U
Calcium	2940 B	541 B	535 B	396 B	9450	320 B
Chromium	1.8 B	1.3 B	0.61 B	1.2 B	0.69 B	0.47 U
Cobalt	1.9 U	1.2 B	1 B	1.1 B	1 B	0.77 U
Copper	2.9 B	1.4 B	1.1 B	0.47 U	1.1 B	0.82 B
Cyanide	0.46 U	0.2 U		0.2 B	0.19 U	0.19 U
Iron	196	89	67.4	40.8	56.9	37.1
Lead	1.1 B	3.7	4.6	1.3	3.4	2.2
Magnesium	212 B	36.3 B	33.9 B	19.6 B	25.7 B	19.5 B
Manganese	10	2 B	1.5 B	0.2 B	0.92 B	0.62 B
Mercury	0.06 B	0.03 B	0.06	0.11	0.03 B	0.03 B
Nickel	5.9 U	2.5 U	2.5 U	2.5 U	2.4 U	2.4 U
Potassium	192 U	82.9 U	80.7 U	81.3 U	78.3 U	77.7 U
Selenium	1.3 U	0.54 U	0.53 U	0.53 U	0.51 U	0.51 U
Silver	1.7 U	0.71 U	0.69 U	0.7 U	0.67 U	0.67 U
Sodium	196 B	15.8 B	15.7 B	16.2 B	71.5 B	10.2 B
Thallium	0.83 U	0.36 U	0.35 U	0.35 U	0.34 U	0.33 U
Vanadium	1.7 U	0.73 U	0.71 U	0.72 U	0.69 U	0.68 U
Zinc	6.3 B	2.9 B	2.3 B	1.2 B	2 B	1.6 B

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
Results have not been subjected to full independent data validation.

U = Analyte not detected at the reporting limit.

B = Reported concentration is between the instrument detection limit (IDL) and the contract-required detection limit (CRDL).

**Table C-5 (Continued)
Summary of Sediment Analytical Results
Target Analyte List Metals
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06D01201	06D01201D	06D01301	06D01401	06D01501	06D01601
Sampling Date	14-Sep-94	14-Sep-94	14-Sep-94	14-Sep-94	21-Sep-94	20-Sep-94
Aluminum	1620	2060	1880	3540	565	583
Antimony	5.6 U	5.8 U	6.1 U	5.4 U	5.3 U	6.6 B
Arsenic	0.59 U	0.62 B	0.7 U	0.82 U	0.51 U	0.68 B
Barium	12.6 B	16.4 B	28.5 B	15.3 B	3.9 B	2.5 B
Beryllium	0.06 U	0.06 U	0.07 U	0.16 B	0.06 U	0.05 U
Cadmium	0.95 B	0.86 U	0.91 U	0.82 U	0.79 U	0.73 U
Calcium	608 B	649 B	790 B	430 B	394 B	2740
Chromium	2.7 U	2.4 B	2.2 U	4	0.93 B	1.3 B
Cobalt	0.86 U	0.89 U	0.94 U	0.84 U	0.92 B	1 B
Copper	2.8 B	2.3 B	1.5 B	3.8 B	1.4 B	1.2 B
Cyanide	0.21 U	0.22 U	0.23 U	0.2 U	0.2 U	0.27 B
Iron	168	166	118	117	93.1	154
Lead	4.8 J	5	5 J	3.2 J	4	3.9
Magnesium	49.5 B	42.7 B	23.4 B	41.7 B	34.1 B	43.6 B
Manganese	1.2 B	1.5 B	0.96 B	1.1 B	0.57 B	1.2 B
Mercury	0.02 U	0.02 U	0.02 U	0.02 U	0.03 B	0.02 B
Nickel	2.7 U	2.7 U	2.9 U	2.6 U	2.5 U	2.3 U
Potassium	91.3 B	89.4 U	102 B	84.7 U	81.8 U	78.9 B
Selenium	0.57 U	0.58 U	0.91 B	0.59 B	0.53 U	0.5 U
Silver	0.75 U	0.77 U	0.81 U	0.73 U	0.7 U	0.65 U
Sodium	6.4 U	5 B	4.9 U	4.4 U	13.7 B	11.3 B
Thallium	0.37 U	0.39 U	0.41 U	0.36 U	0.35 U	0.33 U
Vanadium	1 U	1.7 B	1 U	1.6 U	0.72 U	0.67 U
Zinc	3.9 U	4 B	5.1 U	2 U	3.2 B	9.7

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
Results have not been subjected to full independent data validation.

U = Analyte not detected at the reporting limit.

B = Reported concentration is between the instrument detection limit (IDL) and the contract-required detection limit (CRDL).

J = Reported concentration is an estimated quantity

Table C-5 (Continued)
Summary of Sediment Analytical Results
Target Analyte List Metals
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06D01701	06D01801	06D01901	06D02001	06D02001D	06D02101
Sampling Date	21-Sep-94	21-Sep-94	21-Sep-94	21-Sep-94	21-Sep-94	14-Sep-94
Aluminum	836	568	802	915	831	1900
Antimony	5.2 B	5.4 U	5.3 U	5.2 U	5 U	5 U
Arsenic	0.97 B	1.6 B	0.59 B	1.1 B	1.6 B	0.48 U
Barium	6.2 B	3.8 B	5.3 B	3.1 B	3.2 B	20.1 B
Beryllium	0.06 U	0.06 B	0.06 U	0.06 U	0.05 B	0.08 B
Cadmium	0.79 U	0.87 B	0.8 U	0.81 B	0.75 U	0.75 U
Calcium	493 B	685 B	558 B	16900	46600	722 B
Chromium	1.5 B	2.2 B	1.5 B	2.5 B	2.5 B	2.2 B
Cobalt	1.1 B	1.3 B	0.82 U	1.2 B	0.96 B	0.77 U
Copper	8.6	6.3 B	2.1 B	3.6 B	2.5 B	1.6 B
Cyanide	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U
Iron	276	195	166	512	481	108
Lead	12.9	10.7	3	6	5.1	3.1
Magnesium	53.4 B	88.5 B	63.9 B	218 B	456 B	46.8 B
Manganese	2.1 B	1.7 B	1.9 B	3.6 B	5.3	1.3 B
Mercury	0.02 B	0.02 B	0.03 B	0.03 B	0.03 B	0.02 U
Nickel	2.5 U	2.8 B	2.5 U	2.5 U	2.4 U	2.4 U
Potassium	81.2 U	84.4 U	82.8 U	81.5 U	77.9 U	77.4 U
Selenium	0.53 U	0.55 U	0.54 U	0.53 U	0.51 U	0.51 U
Silver	0.7 U	0.73 U	0.71 U	0.7 U	0.67 U	0.66 U
Sodium	14.2 B	16.9 B	14.1 B	17 B	19.5 B	11.3 B
Thallium	0.35 U	0.36 U	0.36 U	0.35 U	0.34 U	0.33 U
Vanadium	0.72 U	0.76 B	0.73 U	0.88 B	1.3 B	0.97 B
Zinc	8.7	12	5.4 B	21.2	15.8	2.3 B

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
 Results have not been subjected to full independent data validation.

U = Analyte not detected at the reporting limit.

B = Reported concentration is between the instrument detection limit (IDL) and the contract-required detection limit (CRDL).

**Table C-5 (Continued)
Summary of Sediment Analytical Results
Target Analyte List Metals
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06D02201	06D02301	06D02301D	06D02401	06D02501	06D02601	06D02701
Sampling Date	14-Sep-94	14-Sep-94	14-Sep-94	20-Sep-94	20-Sep-94	20-Sep-94	20-Sep-94
Aluminum	1540	1640	1660	15900	2560	19700	4180
Antimony	5.6 U	5.8 U	5.8 U	30.6 U	5.5 B	34.1 U	5.5 U
Arsenic	1.1 B	0.56 U	0.87 B	10.3 B	1.6 B	7.4 B	1.2 B
Barium	30.8 B	31.9 B	33.4 B	90.8 B	22.3 B	102 B	60.7
Beryllium	0.07 B	0.06 B	0.08 B	0.76 B	0.11 B	1.1 B	0.09 B
Cadmium	0.84 U	0.87 U	0.87 U	4.6 U	0.77 U	5.1 U	0.83 U
Calcium	8200	812 B	902 B	6050 B	412 B	5890 B	966 B
Chromium	4.9	1.5 B	1.5 B	16.6	3.4	20	3.8
Cobalt	0.86 U	0.89 U	0.89 U	7 B	1.4 B	6.2 B	1.1 B
Copper	11.5	3.4 B	15.9	25.5 B	1.8 B	17.6 B	1.9 B
Cyanide	0.21 U	0.22 U	0.25 B	1.1 U	0.19 U	1.3 U	0.21 U
Iron	541	83.4	185	3500	301	4560	303
Lead	19.1	2.9	6.8	37.5	2.6	34.2	5.3
Magnesium	139 B	38.7 B	50 B	943 B	75.7 B	1250 B	94.9 B
Manganese	10.3	1.8 B	2.7 B	22.8 B	1.7 B	25.2 B	2.8 B
Mercury	0.28	0.02 U	0.02 U	0.28 B	0.03 B	0.26 B	0.05 B
Nickel	2.7 U	2.8 U	3.2 B	14.5 U	2.4 U	16.2 U	2.6 U
Potassium	87 U	90 U	90 U	475 U	80.1 U	529 U	85.4 U
Selenium	0.57 U	0.59 U	0.59 U	4.9 B	0.53 B	8.2 B	0.56 U
Silver	0.75 U	0.77 U	0.77 U	4.1 U	0.69 U	4.5 U	0.73 U
Sodium	56.5 B	11.1 B	13.8 B	152 B	18.8 B	184 B	20.9 B
Thallium	0.37 U	0.39 U	0.39 U	2 U	0.34 U	2.3 U	0.37 U
Vanadium	2.4 B	1.1 B	0.79 U	8.2 B	2 B	10.9 B	1.3 B
Zinc	44.6	5.4 B	9.9	38.2	1.5 B	32.6 B	3.3 B

Notes: Analytical results expressed in micrograms per kilogram ($\mu\text{g}/\text{kg}$).
Results have not been subjected to full independent data validation.

U = Analyte not detected at the reporting limit.

B = Reported concentration is between the instrument detection limit (IDL) and the contract-required detection limit (CRDL).

Table C-6
Summary of Sediment Analytical Results
Total Organic Carbon and Total Petroleum Hydrocarbons
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	Sampling Date	Total Organic Carbon	Total Petroleum Hydrocarbons
06D00101	15-Sep-94	6420	NR
06D00201	15-Sep-94	6290	NR
06D00301	15-Sep-94	18800	NR
06D00401	15-Sep-94	100000	NR
06D00501	15-Sep-94	11800	NR
06D00601	20-Sep-94	31200	NR
06D00701	20-Sep-94	50000	NR
06D00801	20-Sep-94	3700	NR
06D00901	20-Sep-94	3740	NR
06D01001	19-Sep-94	12100	NR
06D01101	20-Sep-94	1300	NR
06D01101D	20-Sep-94	2540	NR
06D01201	14-Sep-94	7460	3.1
06D01201D	14-Sep-94	16600	11.5
06D01301	14-Sep-94	9340	6.2
06D01401	14-Sep-94	26500	2.1
06D01501	21-Sep-94	2900	NR
06D01601	20-Sep-94	738	NR
06D01701	21-Sep-94	3060	NR
06D01801	21-Sep-94	10700	31
06D01901	21-Sep-94	6690	21
06D02001	21-Sep-94	4690	170
06D02001D	21-Sep-94	5430	229
06D02101	14-Sep-94	8220	5.4
06D02201	14-Sep-94	6840	773
06D02301	14-Sep-94	6140	14
06D02301D	14-Sep-94	3280	72
06D02401	20-Sep-94	127000	NR
06D02501	20-Sep-94	7100	NR
06D02601	20-Sep-94	204000	NR
06D02701	20-Sep-94	10500	NR

Notes: Analytical results expressed in milligrams per kilogram (mg/kg) sediment dry weight.
 Results have not been subjected to full independent data validation.

NR = Analysis not requested.

**Table C-7
Summary of Surface Water Analytical Results
Target Compound List Volatile Organics
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06W00101	06W00201	06W00301	06W00401	06W00501	06W00601
Sampling Date	22-Sep-94	22-Sep-94	22-Sep-94	22-Sep-94	22-Sep-94	22-Sep-94
1,1,1-Trichloroethane	10 U					
1,1,2,2-Tetrachloroethane	10 U					
1,1,2-Trichloroethane	10 U					
1,1-Dichloroethane	10 U					
1,1-Dichloroethene	10 U					
1,2-Dichloroethane	10 U					
1,2-Dichloroethene (total)	10 U					
1,2-Dichloropropane	10 U					
2-Butanone	10 U					
2-Hexanone	10 U					
4-Methyl-2-pentanone	10 U					
Acetone	10 U					
Benzene	10 U					
Bromodichloromethane	10 U					
Bromoform	10 U					
Bromomethane	10 U					
Carbon disulfide	10 U					
Carbon tetrachloride	10 U					
Chlorobenzene	10 U					
Chloroethane	10 U					
Chloroform	10 U					
Chloromethane	10 U					
cis-1,3-Dichloropropene	10 U					
Dibromochloromethane	10 U					
Ethylbenzene	10 U					
Methylene chloride	10 U					
Styrene	10 U					
Tetrachloroethene	10 U					
Toluene	10 U					
trans-1,3-Dichloropropene	10 U					
Trichloroethene	10 U					
Vinyl chloride	10 U					
Xylene (total)	10 U					

Notes: Analytical results expressed in micrograms per liter ($\mu\text{g}/\text{L}$).
Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).

Table C-7 (Continued)
Summary of Surface Water Analytical Results
Target Compound List Volatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06W00601D	06W00701	06W00801	06W00901	06W00901D
Sampling Date	22-Sep-94	22-Sep-94	22-Sep-94	22-Sep-94	22-Sep-94
1,1,1-Trichloroethane	10 U				
1,1,2,2-Tetrachloroethane	10 U				
1,1,2-Trichloroethane	10 U				
1,1-Dichloroethane	10 U				
1,1-Dichloroethene	10 U				
1,2-Dichloroethane	10 U				
1,2-Dichloroethene (total)	10 U				
1,2-Dichloropropane	10 U				
2-Butanone	10 U				
2-Hexanone	10 U				
4-Methyl-2-pentanone	10 U				
Acetone	10 U				
Benzene	10 U				
Bromodichloromethane	10 U				
Bromoform	10 U				
Bromomethane	10 U				
Carbon disulfide	10 U				
Carbon tetrachloride	10 U				
Chlorobenzene	10 U				
Chloroethane	10 U				
Chloroform	10 U				
Chloromethane	10 U				
cis-1,3-Dichloropropene	10 U				
Dibromochloromethane	10 U				
Ethylbenzene	10 U				
Methylene chloride	10 U				
Styrene	10 U				
Tetrachloroethene	10 U				
Toluene	10 U				
trans-1,3-Dichloropropene	10 U				
Trichloroethene	10 U				
Vinyl chloride	10 U				
Xylene (total)	10 U				

Notes: Analytical results expressed in micrograms per liter ($\mu\text{g}/\text{L}$).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).

**Table C-8
Summary of Surface Water Analytical Results
Target Compound List Semivolatile Organics
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06W00101 Sampling Date 22-Sep-94	06W00201 22-Sep-94	06W00301 22-Sep-94	06W00401 22-Sep-94	06W00501 22-Sep-94	06W00601 22-Sep-94
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	25 U	25 U	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	25 U	25 U	25 U	25 U	25 U	25 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	25 U	25 U	25 U	25 U	25 U	25 U
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U	25 U	25 U	25 U
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U

See notes at end of table.

Table C-8 (Continued)
Summary of Surface Water Analytical Results
Target Compound List Semivolatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06W00101 Sampling Date 22-Sep-94	06W00201 22-Sep-94	06W00301 22-Sep-94	06W00401 22-Sep-94	06W00501 22-Sep-94	06W00601 22-Sep-94
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine ¹	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	10 U	3 J	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U	10 U

¹ Cannot be separated from diphenylamine

Notes: Analytical results expressed in micrograms per liter ($\mu\text{g}/\text{l}$).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
 J = Reported concentration is an estimated quantity.

Table C-8 (Continued)
Summary of Surface Water Analytical Results
Target Compound List Semivolatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06W00601D Sampling Date 22-Sep-94	06W00701 22-Sep-94	06W00801 22-Sep-94	06W00901 22-Sep-94	06W00901D 22-Sep-94
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	25 U	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	25 U	25 U	25 U	25 U	25 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	25 U	25 U	25 U	25 U	25 U
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U	25 U	25 U
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	25 U	25 U	25 U	25 U	25 U
Acenaphthene	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U	10 U

See notes at end of table.

Table C-8 (Continued)
Summary of Surface Water Analytical Results
Target Compound List Semivolatile Organics
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06W00601D Sampling Date 22-Sep-94	06W00701 22-Sep-94	06W00801 22-Sep-94	06W00901 22-Sep-94	06W00901D 22-Sep-94
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10 U	10 U	10 U	10 U	10 U
Carbazole	10 U	10 U	10 U	10 U	10 U
Chrysene	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U
Fluorene	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine ¹	10 U	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25 U	25 U	25 U	25 U	25 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U
Phenol	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U

¹ Cannot be separated from diphenylamine

Notes: Analytical results expressed in micrograms per liter ($\mu\text{g}/\text{l}$).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
 J = Reported concentration is an estimated quantity.

**Table C-9
Summary of Surface Water Analytical Results
Target Compound List Pesticides/PCBs
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06W00101 Sampling Date 22-Sep-94	06W00201 22-Sep-94	06W00301 22-Sep-94	06W00401 22-Sep-94	06W00501 22-Sep-94	06W00601 22-Sep-94
4,4'-DDD	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDT	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Aldrin	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
alpha-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
alpha-Chlordane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Aroclor-1016	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1221	2 U	2 U	2 U	2 U	2 U	2 U
Aroclor-1232	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1242	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1248	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1260	1 U	1 U	1 U	1 U	1 U	1 U
beta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan I	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan II	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan sulfate	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endrin	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endrin aldehyde	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endrin ketone	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
gamma-BHC (Lindane)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-Chlordane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor epoxide	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Methoxychlor	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toxaphene	5 U	5 U	5 U	5 U	5 U	5 U

Notes: Analytical results expressed in micrograms per liter ($\mu\text{g}/\text{l}$).
Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
J = Reported concentration is an estimated quantity.

Table C-9 (Continued)
Summary of Surface Water Analytical Results
Target Compound List Pesticides/PCBs
Study Area 6

BRAC Environmental Site-Screening Report
 Naval Training Center
 Orlando, Florida

Identifier	06W00601D	06W00701	06W00801	06W00901	06W00901D
	22-Sep-94	22-Sep-94	22-Sep-94	22-Sep-94	22-Sep-94
4,4'-DDD	0.1 U				
4,4'-DDE	0.1 U				
4,4'-DDT	0.1 U				
Aldrin	0.05 U				
alpha-BHC	0.05 U				
alpha-Chlordane	0.05 U				
Aroclor-1016	1 U	1 U	1 U	1 U	1 U
Aroclor-1221	2 U	2 U	2 U	2 U	2 U
Aroclor-1232	1 U	1 U	1 U	1 U	1 U
Aroclor-1242	1 U	1 U	1 U	1 U	1 U
Aroclor-1248	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	1 U	1 U	1 U	1 U	1 U
Aroclor-1260	1 U	1 U	1 U	1 U	1 U
beta-BHC	0.05 U				
delta-BHC	0.05 U				
Dieldrin	0.1 U				
Endosulfan I	0.05 U				
Endosulfan II	0.1 U				
Endosulfan sulfate	0.1 U				
Endrin	0.1 U				
Endrin aldehyde	0.1 U				
Endrin ketone	0.1 U				
gamma-BHC (Lindane)	0.05 U				
gamma-Chlordane	0.05 U				
Heptachlor	0.05 U				
Heptachlor epoxide	0.05 U				
Methoxychlor	0.5 U				
Toxaphene	5 U	5 U	5 U	5 U	5 U

Notes: Analytical results expressed in micrograms per liter ($\mu\text{g}/\ell$).
 Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
 J = Reported concentration is an estimated quantity.

**Table C-10
Summary of Surface Water Analytical Results
Herbicides - Method 8150
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06W00101	06W00201	06W00301	06W00401	06W00501	06W00601
Sampling Date	22-Sep-94	22-Sep-94	22-Sep-94	22-Sep-94	22-Sep-94	22-Sep-94
2,4,5-T	0.5 U					
2,4-D	2.5 U					
2,4-DB	2.5 U					
2,4-DP (Dichloroprop)	2.5 U					
Dalapon	5 U	5 U	5 U	5 U	5 U	5 U
Dicamba	0.5 U					
Dinoseb	0.5 U					
MCPA	250 U					
MCPP	250 U					
Silvex (2,4,5-TP)	0.5 U					

Notes: Analytical results expressed in micrograms per liter ($\mu\text{g}/\text{L}$).
Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
J = Reported concentration is an estimated quantity.

**Table C-10 Summary of Surface Water Analytical Results
Herbicides - Method 8150 (Continued)**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06W00601D	06W00701	06W00801	06W00901	06W00901D
Sampling Date	22-Sep-94	22-Sep-94	22-Sep-94	22-Sep-94	22-Sep-94
2,4,5-T	0.5 U				
2,4-D	2.5 U				
2,4-DB	2.5 U				
2,4-DP (Dichloroprop)	2.5 U				
Dalapon	5 U	5 U	5 U	5 U	5 U
Dicamba	0.5 U				
Dinoseb	0.5 U				
MCPA	250 U				
MCPP	250 U				
Silvex (2,4,5-TP)	0.5 U				

Notes: Analytical results expressed in micrograms per liter ($\mu\text{g}/\text{L}$).
Results have not been subjected to full independent data validation.

U = Compound not detected at the contract-required quantitation limit (CRQL).
J = Reported concentration is an estimated quantity.

**Table C-11
Summary of Surface Water Analytical Results
Target Analyte List Metals
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06W00101	06W00201	06W00301	06W00401	06W00501	06W00601
Sampling Date	22-Sep-94	22-Sep-94	22-Sep-94	22-Sep-94	22-Sep-94	22-Sep-94
Aluminum	58.4 B	60.7 B	54.8 B	59.8 B	46.6 B	58.4 B
Antimony	19.4 U	19.4 U	19.4 U	26.6 B	19.4 U	19.4 U
Arsenic	2.5 B	2.6 B	1.9 U	1.9 B	1.9 U	1.9 U
Barium	7.3 B	5.8 B	4.1 B	4.5 B	4.8 B	5.4 B
Beryllium	0.21 U					
Cadmium	2.9 U					
Calcium	16100	15400	16000	15900	16400	17000
Chromium	1.8 U					
Cobalt	3 U	3 U	3 U	3 U	3 U	3 U
Copper	10 B	3.3 B	1.9 B	1.7 U	1.7 U	3 B
Iron	13.2 B	12.4 B	10.2 B	12 B	13.1 B	21.5 B
Lead	0.83 B	0.86 B	0.83 U	0.83 U	0.83 U	0.83 U
Magnesium	2380 B	2290 B	2360 B	2370 B	2390 B	2450 B
Manganese	5.7 B	4.6 B	5 B	5.2 B	4.8 B	5.4 B
Mercury	0.06 B	0.07 B	0.06 U	0.06 U	0.06 B	0.06 B
Nickel	9.2 U					
Potassium	1470 B	1670 B	1390 B	1610 B	1620 B	1800 B
Selenium	2 U	2 U	2 U	2 U	2 U	2 U
Silver	2.6 U					
Sodium	6570	6300	6590	6500	6600	6810
Thallium	1.3 U					
Vanadium	2.7 U	2.9 B				
Zinc	4.4 B	2.8 B	3.6 B	3.2 B	3.1 B	4.7 B

Notes: Analytical results expressed in micrograms per liter ($\mu\text{g}/\text{L}$).
Results have not been subjected to full independent data validation.

U = Analyte not detected at the reporting limit.

B = Reported concentration is between the instrument detection limit (IDL) and the contract-required detection limit (CRDL).

**Table C-11 (Continued)
Summary of Surface Water Analytical Results
Target Analyte List Metals
Study Area 6**

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06W00601D Sampling Date 22-Sep-94	06W00701 22-Sep-94	06W00801 22-Sep-94	06W00901 21-Sep-94	06W00902 22-Sep-94	06W00901D 22-Sep-94
Aluminum	62.5 B	62 B	77 B	56.1 B	43 B	52.6 B
Antimony	19.4 U	19.4 U	19.4 U	19.4 U	19.4 U	19.4 U
Arsenic	2.7 B	1.9 U	1.9 U	3.1 B	3.5 B	1.9 B
Barium	5.3 B	5.7 B	7.6 B	16.1 B	6 B	6.8 B
Beryllium	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
Calcium	16400	16200	15800	12200	16100	16200
Chromium	1.8 U	2.5 B	1.8 U	1.8 U	1.8 U	1.8 U
Cobalt	3 U	3 U	3 U	3.6 B	3 U	3 U
Copper	2.5 B	3.4 B	2.7 B	4.8 B	2.4 B	1.7 U
Iron	21.9 B	16.5 B	20.2 B	23.7 B	14.9 B	14.4 B
Lead	0.83 U	1.1 B	0.83 U	0.83 U	0.86 B	1.2 B
Magnesium	2360 B	2370 B	2340 B	1570 B	2370 B	2390 B
Manganese	5 B	4.6 B	5.4 B	2.8 B	5.4 B	5.9 B
Mercury	0.06 U	0.06 U	0.06 U	0.06 U	0.06 B	0.06 U
Nickel	9.2 U	9.2 U	9.2 U	10 B	9.2 U	9.2 U
Potassium	1680 B	1620 B	1480 B	1670 B	1600 B	1350 B
Selenium	2 U	2 U	2 U	2 U	2 U	2 U
Silver	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Sodium	6540	6560	6430	7250	6510	6590
Thallium	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Vanadium	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Zinc	2.5 B	5.5 B	3.9 B	5.3 B	2.8 B	2.8 B

Notes: Analytical results expressed in micrograms per liter ($\mu\text{g}/\text{L}$).
Results have not been subjected to full independent data validation.

U = Analyte not detected at the reporting limit.

B = Reported concentration is between the instrument detection limit (IDL) and the contract-required detection limit (CRDL).

Table C-12
Summary of Surface Water Analytical Results
General Wet Chemistry Parameters
Study Area 6

BRAC Environmental Site-Screening Report
Naval Training Center
Orlando, Florida

Identifier	06W00101	06W00201	06W00301	06W00401	06W00501	06W00601	06W00601D	06W00701	06W00801	06W00901	06W00901D
Sampling Date	22-Sep-94										
Alkalinity as CaCO ₃	38	39	39	40	40	40	40	40	40	39	39
Hardness as CaCO ₃	51	49	51	51	51	51	51	52	51	51	52
Total Dissolved Solids	90	82	88	82	84	84	88	88	94	92	76
Total Petroleum Hydrocarbons	NR	NR	1 U	1 U	NR	1 U	1 U	1 U	NR	1 U	NR
Total Suspended Solids	6	6	4	7	3	2	6	8	7	6	2

Notes: Analytical results expressed in milligrams per liter (mg/l).
Results have not been subjected to full independent data validation.

U = Parameter not detected at the method detection limit.

NR = Parameter not requested to be analyzed.

APPENDIX D

**SURFACE WATER AND SEDIMENT
SCREENING VALUES CALCULATIONS**

DEVELOPMENT OF ECOLOGICAL SCREENING VALUES SURFACE WATER AND SEDIMENT

Surface water and sediment screening values were selected in order to evaluate the quality of the surface water body included in Study Area 6. Screening values were selected from available State and Federal guidance values as discussed below.

Surface Water Screening Values

The U.S. Environmental Protection Agency (USEPA 1986, 1988, 1991) has developed acute and chronic ambient water quality criteria (AWQC) for the protection of aquatic life. Acute AWQC are defined as the 1-hour concentrations not to be exceeded more than once every 3 years, and chronic AWQC are defined as the 4-day average concentration not to be exceeded more than once every 3 years. AWQC incorporate available toxicity data for sensitive fish species, aquatic invertebrates, amphibians, and aquatic plants. AWQC have not been established for a number of chemicals; lowest observed effect concentrations (LOECs) cited by USEPA (1986) were used for these chemicals, if available.

The Waste Management Division of USEPA Region IV has established Chronic Freshwater Quality Screening Values (USEPA, 1995). In addition, the State of Florida has promulgated State Surface Water Quality Standards (Florida Administrative Code, Chapter 62-302, 1995).

These three sets of values, summarized in Table D-1, were considered as potential screening values; the lowest of the three values was conservatively selected as the screening value to evaluate surface water data from Study Area 6.

The toxicity of a number of inorganic constituents has been shown to be correlated with water hardness, with toxicity increasing as water hardness decreases. For these inorganic chemicals, the USEPA has established AWQC which are presented as equations that incorporate site-specific water hardness. Both USEPA Region IV and Florida Department of Environmental Protection (FDEP) have adopted these criteria as water quality screening values or standards. The arithmetic mean of the water hardness (as CaCO_3) measured at the study area was used to derive site-specific screening criteria. The equations used to derive the criteria are presented in the following table:

Chemical	Equation
Copper	chronic AWQC ($\mu\text{g}/\ell$) = $e^{[0.8545(\ln H) - 1.485]}$
Lead	chronic AWQC ($\mu\text{g}/\ell$) = $e^{[1.273(\ln H) - 4.705]}$
Nickel	chronic AWQC ($\mu\text{g}/\ell$) = $e^{[0.848(\ln H) + 1.1845]}$
Zinc	chronic AWQC ($\mu\text{g}/\ell$) = $e^{[0.8473(\ln H) + 0.7814]}$

Notes: $\mu\text{g}/\ell$ = micrograms per liter.
 \ln = natural log.
H = hardness (milligrams per liter [mg/ℓ] as calcium carbonate [CaCO_3]).

The arithmetic mean water hardness for Study Area 6 was 51 mg/ℓ as CaCO_3 .

**Table D-1
Surface Water Screening Values**

BRAC Environmental Site-Screening Report, Study Area 6
Naval Training Center
Orlando, Florida

Chemical	Surface Water Screening Value ($\mu\text{g}/\text{l}$)			
	USEPA Ambient Water Quality Criteria ¹	Region IV Water Quality (Chronic) ²	FDEP Class III Fresh Water Standards ³	Surface Water Screening Value ⁴
<u>Semivolatile Organic Compounds</u>				
Phenol	2,560 ⁵	256	300	256
<u>Inorganic Analytes</u>				
Aluminum	87 ⁶	87	--	87 ⁶
Antimony	30 ⁷	160	4,300	30 ⁷
Arsenic	190 ⁸	190	50	50
Barium	--	--	--	--
Calcium	--	--	--	--
Chromium	11 ⁹	11 ⁹	11 ⁹	11
Cobalt	--	--	--	--
Copper	6.7 ¹⁰	6.7 ¹⁰	6.7 ¹⁰	6.7 ¹⁰
Iron	1,000	1,000	1,000	1,000
Lead	1.4 ¹⁰	1.4 ¹⁰	1.4 ¹⁰	1.4 ¹⁰
Magnesium	--	--	--	--
Manganese	--	--	--	--
Mercury	0.012	0.012	0.012	0.012
Nickel	89 ¹⁰	89 ¹⁰	89 ¹⁰	89 ¹⁰
Potassium	--	--	--	--
Sodium	--	--	--	--
Thallium	40 ⁵	4.0	6.3	4.0
Vanadium	--	--	--	--
Zinc	60 ¹⁰	60 ¹⁰	60 ¹⁰	60 ¹⁰

¹ Federal Ambient Water Criteria, chronic values (U.S. Environmental Protection Agency [USEPA], 1991; 1988).
² USEPA (Region IV), 1995 Ecological Screening Values. Ecological Risk Assessment, Bulletin No. 2, November 1995 Draft. Supplemental Guidance to risk assessment guidance for Superfund: Region 4 Bulletins. Waste Management Division, Atlanta, Georgia.
³ Chapter 62-302. Florida Administrative Code Surface Water Quality Standards; 1995.
⁴ Surface Water Screening Value is the lowest of the available values.
⁵ Values shown is a lowest observed effect concentration presented in USEPA 1986.
⁶ Criterion is based on pH of 6.5 - 9 (USEPA, 1988).
⁷ Proposed criterion.
⁸ Screening value for trivalent species of arsenic.
⁹ Screening value for hexavalent species of chromium.
¹⁰ Hardness dependent criterion. Average water hardness of 51 milligrams per liter calcium carbonate (CaCO₃) was used to calculate criteria for Study Area 6.

Notes: BRAC = Base Realignment and Closure.
 $\mu\text{g}/\text{l}$ = micrograms per liter.
 USEPA = U.S. Environmental Protection Agency.
 FDEP = Florida Department of Environmental Protection.
 -- = Surface Water Quality Criteria not available.

Sediment Screening Values

The USEPA has established or proposed sediment quality criteria for a limited number of organic chemicals (USEPA 1988, 1993a,b). The Waste Management Division of USEPA Region IV has established Ecological Screening Values, which include screening values for sediment (USEPA Region IV, 1995). In addition, the State of Florida has developed "Sediment Quality Guidelines" (SQGs) (MacDonald, 1994); toxic effect levels (TELs), which represent a threshold above which toxic effects might be expected to occur, were selected from this reference. The Ontario Ministry of Environment (MOE) has published "Guidelines for the Protection and Management of Aquatic Sediment Quality in Ontario" (Persaud et al., 1992) in which lowest effect level (LEL) values are presented for a number of chemicals. These values were derived largely using data from the Great Lakes and other freshwater bodies and, therefore, also may be applicable as guidance values for the freshwater body that comprises Study Area 6.

These four sets of sediment values, summarized in Table D-2, were considered as potential screening values; the lowest of the four values was conservatively selected as the screening value to evaluate sediment data from Study Area 6.

The toxicity of a number of organic constituents in sediments has been shown to be correlated with the amount of organic carbon present in the sediments, with toxicity increasing as the organic carbon content decreases. For these chemicals, the USEPA presents SQGs in units of micrograms per gram ($\mu\text{g/g}$) organic carbon (OC). The arithmetic mean of the total OC measured at each study area was used to derive site-specific screening criteria. The criteria, as presented in the guidance documents, are summarized in the following table:

Chemical	USEPA Sediment Quality Guideline
4,4'-DDT	0.828 $\mu\text{g/g}$ OC (USEPA, 1988)
Aroclor-1260	19.5 $\mu\text{g/g}$ OC (USEPA, 1988)
Fluoranthene	620 $\mu\text{g/g}$ OC (USEPA, 1993a)
Phenanthrene	180 $\mu\text{g/g}$ OC (USEPA, 1993b)

Notes: Value for Aroclor 1254 used for Aroclor-1260.

DDT = dichlorodiphenyltrichloroethane.
OC = organic carbon.
 $\mu\text{g/g}$ = micrograms per gram.

The arithmetic mean total organic carbon (TOC) content for sediments measured at Study Area 6 was 42,142 mg/kg.

**Table D-2
Sediment Screening Values**

BRAC Environmental Site-Screening Report, Study Area 6
Naval Training Center
Orlando, Florida

Chemical	Sediment Screening Value ($\mu\text{g}/\text{kg}$ for organics, mg/kg for inorganics)				
	USEPA SQG ¹	Region IV SQG ²	FDEP SQAG (TEL) ³	Ontario SQG (LEL) ⁴	Screening Value ⁵
<u>Volatile Organic Compounds</u>					
2-Butanone	--	--	--	--	--
Acetone	--	--	--	--	--
<u>Semivolatile Organic Compounds</u>					
4-Methylphenol	--	--	--	--	--
Anthracene	--	330	46.9	--	46.9
Benzo(a)anthracene	--	330	74.8	--	74.8
Benzo(a)pyrene	--	330	88.8	--	88.8
Benzo(b)fluoranthene	--	655	--	--	655
Benzo(g,h,i)perylene	--	655	--	--	655
Benzo(k)fluoranthene	--	655	--	--	655
bis(2-Ethylhexyl)phthalate	--	182	182	--	182
Butylbenzylphthalate	--	--	--	--	--
Chrysene	--	330	108	--	108
Di-n-butylphthalate	--	--	--	--	--
Di-n-octylphthalate	--	--	--	--	--
Dibenz(a,h)anthracene	--	330	6.22	--	6.22
Fluoranthene	14,300 ⁷	330	113	--	113
Indeno(1,2,3-cd)pyrene	--	655	--	--	655
Phenanthrene	4,150 ⁷	330	86.7	--	86.7
Pyrene	--	330	153	--	153
<u>Pesticides/PCBs</u>					
4,4'-DDD	19.1 ^{6,7}	3.3 ⁶	1.22	8	1.22
4,4'-DDE	19.1 ^{6,7}	3.3 ⁶	2.07	5	2.07
4,4'-DDT	19.1 ⁷	3.3	1.19	8	1.19
alpha-Chlordane	--	1.7	2.26	7	1.7
Aroclor-1260	450 ⁷	33	21.6	5	5
gamma-Chlordane	--	1.7	2.26	7	1.7
<u>Inorganic Analytes</u>					
Aluminum	--	--	--	--	--
Antimony	--	12	--	--	12
Arsenic	--	7.24	7.24	6	6
Barium	--	--	--	--	--
Beryllium	--	--	--	--	--
Cadmium	--	1	0.676	0.6	0.6
Calcium	--	--	--	--	--
Chromium	--	52.3	52.3	26	26
Cobalt	--	--	--	50	50
Copper	--	18.7	18.7	16	16
Cyanide	--	--	--	0.1	0.1
Iron	--	--	--	20,000	20,000
See notes at end of table					

**Table D-2 (Continued)
Sediment Screening Values**

BRAC Environmental Site-Screening Report, Study Area 6
Naval Training Center
Orlando, Florida

Chemical	Sediment Screening Value ($\mu\text{g}/\text{kg}$ for organics, mg/kg for inorganics)				
	USEPA SQG ¹	Region IV SQG ²	FDEP SQAG (TEL) ³	Ontario SQG (LEL) ⁴	Screening Value ⁵
Inorganic Analytes (Continued)					
Lead	--	30.2	30.2	31	30.2
Magnesium	--	--	--	--	--
Manganese	--	--	--	460	460
Mercury	--	0.13	0.13	0.2	0.13
Nickel	--	15.9	15.9	16	15.9
Potassium	--	--	--	--	--
Selenium	--	--	--	--	--
Sodium	--	--	--	--	--
Thallium	--	--	--	--	--
Vanadium	--	--	--	--	--
Zinc	--	124	124	120	120

¹ U.S. Environmental Protection Agency (USEPA), 1993a,b, Sediment Quality Criteria for the Protection of Benthic Organisms. Office of Water, Office of Research and Development, and Office of Science and Technology, Health and Ecological Criteria Division, Washington, DC. Documents for Fluoranthene (EPA-822-R-93-012) and Phenanthrene (EPA-822-R-93-014). If a 1993 document does not exist, available values from the following reference were used: USEPA, 1988. Interim Sediment Criteria Values for Nonpolar Hydrophobic Organic Contaminants. Office of Water, Regulations and Standards, Criteria and Standards Division, Washington, DC, May, 1988. SCD# 17.

² USEPA (Region IV). 1995. Ecological Screening Values. Ecological Risk Assessment, Bulletin No. 2, November 1995 Draft. Supplemental Guidance to RAGS: Region 4 Bulletins. Waste Management Division, Atlanta, GA.

³ MacDonald, 1994, Approach to the Assessment of Sediment Quality in Florida Coastal Waters. Volume 1 - Development and Evaluation of Sediment Quality Assessment Guidelines. Prepared by MacDonald Environmental Sciences Ltd., Ladysmith, BC for Florida Department of Environmental Protection, Tallahassee, Florida.

⁴ Persaud et al. 1992. Guidelines of the Protection and Management of Aquatic Sediment Quality in Ontario. Ontario Ministry of the Environment, Water Resources Branch. June 1992, reprinted August 1992. ISBN 0-7729-9248-7.

⁵ Sediment Screening Value is the lowest of the available values.

⁶ Value for DDT used for DDD and DDE.

⁷ USEPA (1993) and USEPA (1988) present SQGs in units of $\mu\text{g}/\text{g}$ organic carbon (OC). The average total OC concentration of 42,142 mg/kg (i.e., 4.2%) was used to calculate SQGs for Study Area 6.

Notes: BRAC = Base Realignment and Closure.

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

mg/kg = micrograms per kilograms.

USEPA = U.S. Environmental Protection Agency.

SQG = sediment quality guideline.

FDEP = Florida Department of Environmental Protection.

SQAG = sediment quality assessment guidelines.

TEL = toxic effect level.

LEL = lowest effect level (Persaud et al. 1992).

-- = sediment quality guidelines not available or analyte/compound not detected at the reporting limit.

PCBs = polychlorinated biphenyls.

DDD = dichlorodiphenyldichloroethane.

DDE = dichlorodiphenyldichloroethene

DDT = dichlorodiphenyltrichloroethane