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NAS CECIL FIELD, FL
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CONFIRMATORY SAMPLING REPORT FOR BUILDING 543 TANK G543 BASE
REALIGNMENT AND CLOSURE UNDERGROUND STORAGE TANK AND ABOVEGROUND
STORAGE TANK GREY SITES NAS CECIL FIELD FL
11/1/1997
ABB ENVIRONMENTAL SERVICES INC

CONFIRMATORY SAMPLING REPORT
BUILDING 543, TANK G543
BASE REALIGNMENT AND CLOSURE
UNDERGROUND STORAGE TANK AND
ABOVEGROUND STORAGE TANK GREY SITES
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

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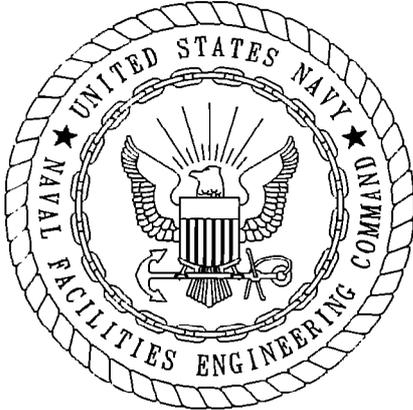
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Prepared for:

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November 1997



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-0317/131 are complete and accurate and comply with all requirements of this contract.

DATE: December 2, 1997

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(DFAR 252.227-7036)

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Naval Air Station Cecil Field
Jacksonville, Florida

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GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
BEI	Bechtel Environmental, Inc.
bls	below land surface
FAC	Florida Administrative Code
OVA	organic vapor analyzer
UST	underground storage tank

1.0 INTRODUCTION

ABB Environmental Services, Inc. (ABB-ES), under contract to the Southern Division, Naval Facilities Engineering Command, has completed the confirmatory sampling for Tank G543 at Naval Air Station Cecil Field in Jacksonville, Florida. This report summarizes the related field operations, results, conclusions, and recommendations of the confirmatory sampling.

Tank G543 was an underground storage tank (UST) located on the north side of Building 543, which provides tactical aid to navigation (ABB-ES, 1994) (Figure 1). The UST, which was installed in 1985, had a 250-gallon capacity and was used to store diesel fuel for an emergency generator (ABB-ES, 1994). A Contamination Assessment Plan for the assessment of soil and groundwater at Tank G543 was prepared by ABB-ES in November 1996 (ABB-ES, 1996).

Tank G543 was removed by Bechtel Environmental, Inc. (BEI), on May 22, 1997. No soil was removed from the site at that time. A Closure Report was prepared for tank G543 and submitted to the Florida Department of Environmental Protection (BEI, 1997).

2.0 FIELD INVESTIGATION

The confirmatory sampling at Tank G543 was initiated in January 1997 (before the UST was removed) and included

- the advancement of four soil borings to the water table,
- the installation of one shallow groundwater monitoring well, and
- collection and analysis of one groundwater sample.

Soil samples were collected at depth intervals of 1 foot below land surface (bls) and every 2 feet thereafter to the water table. These samples were screened for hydrocarbon vapors with an organic vapor analyzer (OVA).

One monitoring well, CEF-543-1S, was installed southeast of the UST near the location of soil boring CEF-543-SB2 to a depth of 13 feet bls. One groundwater sample was collected on March 20, 1997, and analyzed for the Kerosene Analytical Group parameters. A general site plan indicating the location of the soil borings and monitoring well CEF-543-1S is presented on Figure 2. The monitoring well installation detail is included in Appendix A.

3.0 SCREENING AND ANALYTICAL RESULTS

Excessively contaminated soil was not detected in soil samples collected from the unsaturated zone during the confirmatory sampling. The soil OVA data collected during the confirmatory sampling are summarized in Table 1 and presented on Figure 2.

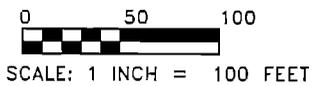
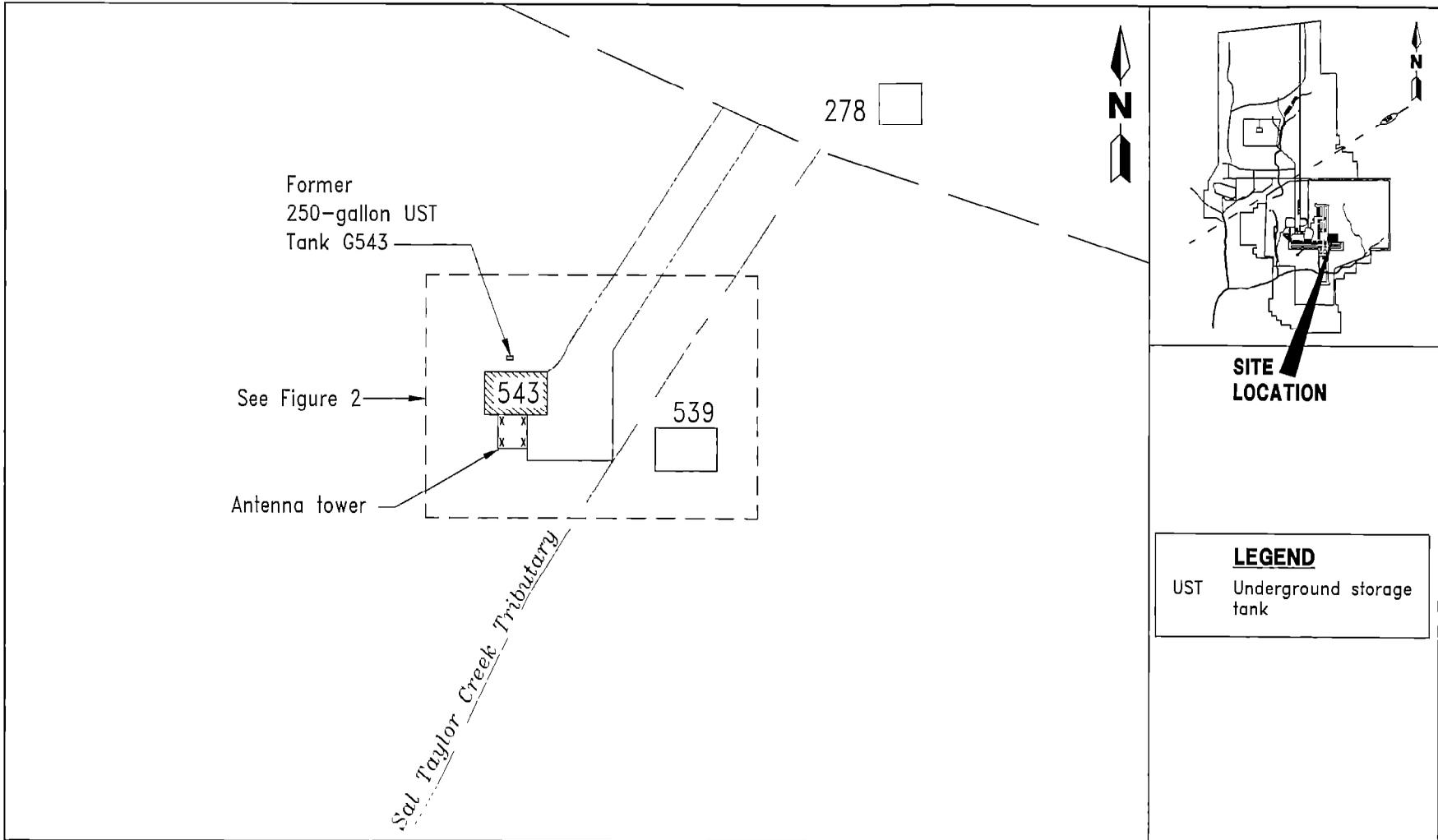


FIGURE 1
TANK G543
TACAN - TACTICAL AID TO NAVIGATION



CONFIRMATORY SAMPLING REPORT
BUILDING 543, TANK G543

NAVAL AIR STATION GECIL FIELD
JACKSONVILLE, FLORIDA

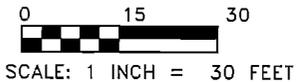
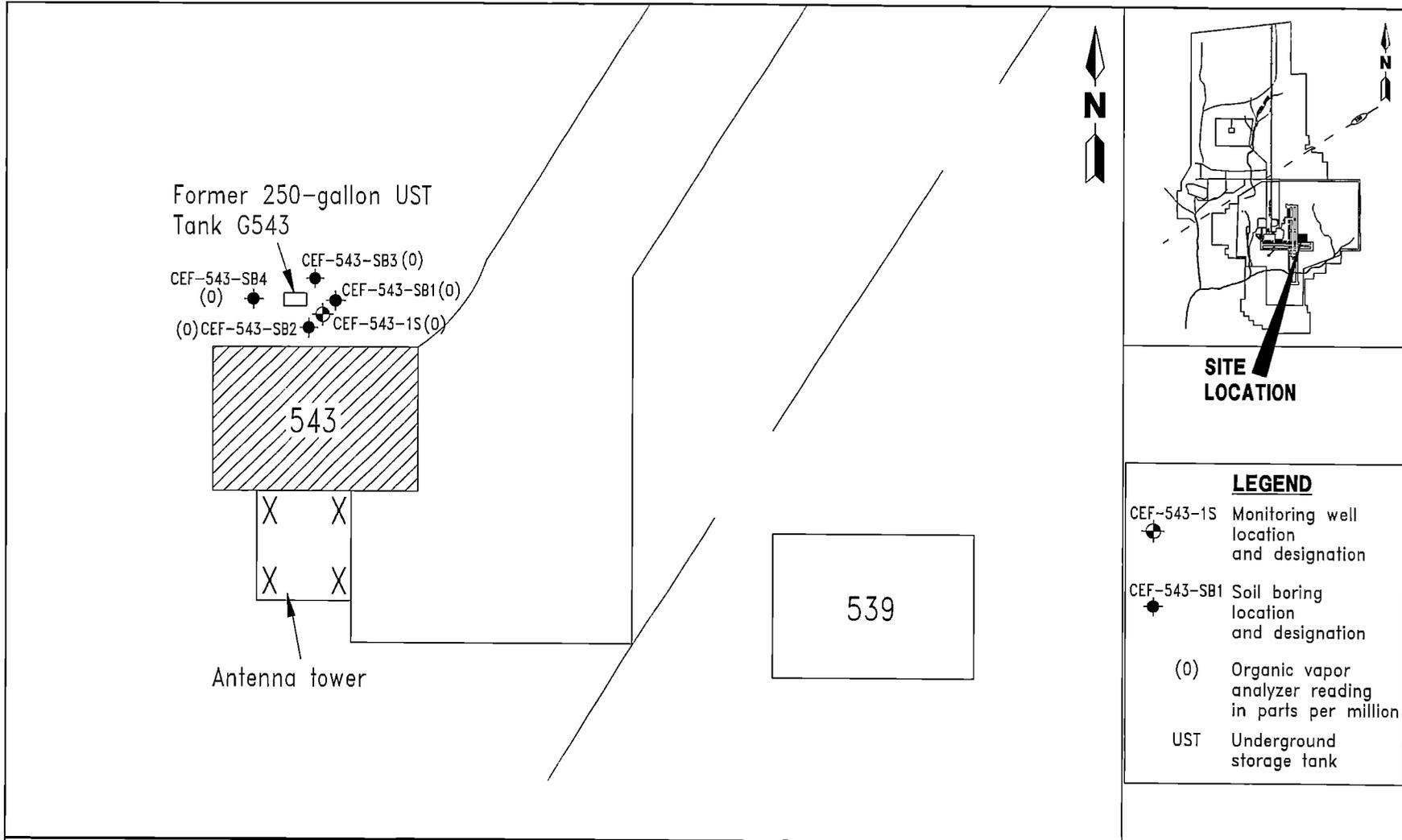


FIGURE 2
TANK G543
SOIL BORING AND MONITORING WELL LOCATIONS



CONFIRMATORY SAMPLING REPORT
BUILDING 543, TANK G543

NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

**Table 1
Soil Screening Results**

Confirmatory Sampling Report
Building 543, Tank G543
Naval Air Station Cecil Field
Jacksonville, Florida

Location	OVA Concentration (ppm)			
	Depth (feet bls)	Unfiltered	Filtered	Actual
CEF-G543-SB1	1	0	-	0
	3	0	-	0
	4.5 (moist)	0	-	0
CEF-G543-SB2	1	0	-	0
	3	0	-	0
	5	0	-	0
CEF-G543-SB3	1	0	-	0
	3	0	-	0
	4.5	0	-	0
CEF-G543-SB4	1	0	-	0
	3	0	-	0
	4.5	0	-	0
CEF-543-1S	1	0	-	0
	3	0	-	0
	5 (wet)	0	-	0
	11 (wet)	14	0	14

Notes: All soil samples were collected on January 21, 1997.
Monitoring well CEF-141-1S was installed on March 11, 1997.
Soil samples were filtered with carbon to determine the methane concentration.

OVA = organic vapor analyzer.
ppm = parts per million.
bls = below land surface.
wet = soil sample was completely saturated when analyzed.
moist = soil sample was partially saturated when analyzed.
- = filtered readings were not collected.

Contaminant concentrations in groundwater were below the regulatory standards specified in Chapter 62-770 of the Florida Administrative Code (FAC). The complete analytical data set is presented in Appendix B.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Data obtained during the confirmatory sampling at the Tank G543 site does not indicate the presence of contaminated soil. No contaminants were detected above regulatory standards specified in Chapter 62-770, FAC, in the groundwater sample collected from monitoring well GEF-543-1S. Therefore, no further action is recommended for the Tank G543 site.

REFERENCES

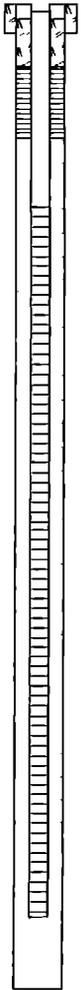
ABB Environmental Services, Inc. (ABB-ES). 1994. *Base Realignment and Closure Environmental Baseline Survey Report, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), North Charleston, South Carolina (November).

ABB-ES. 1996. *Contamination Assessment Plan, Naval Air Station Cecil Field, Jacksonville, Florida*. SOUTHNAVFACENGCOM, North Charleston, South Carolina (November).

Bechtel Environmental, Inc. 1997. DO #59: *Closure Report for Above Storage Tank/Underground Storage Tank Removals, Naval Air Station Cecil Field, Jacksonville, Florida* (July).

APPENDIX A
MONITORING WELL INSTALLATION DETAIL

TITLE: NAS Cecil Field		LOG of WELL: CEF-543-IS	BORING NO. CEF-543-IS
CLIENT: SOUTHDIVNAVFACENGCOM			PROJECT NO: 8542-03
CONTRACTOR: GEOTEK		DATE STARTED: 3-11-97	COMPLTD: 3-11-97
METHOD: 6.25" HSA	CASE SIZE: 2"	SCREEN INT.: 3-13	PROTECTION LEVEL: D
TOC ELEV.: FEET.	MONITOR INST.: FID	TOT DPTH: 14 FEET.	DPTH TO ∇ 4.67 FEET.
LOGGED BY: J Koch	WELL DEVELOPMENT DATE: 3-11-97		SITE: Building 543

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
0				0	SILTY SAND: Light grey to dark brown, fine grained, no petroleum odor.		SM	posthole	
0			0	SILTY SAND: Dark brown, fine grained, moist, no petroleum odor.	posthole				
5			100%	0	SILTY SAND: Dark brown, fine grained with traces of wood, saturated, no petroleum odor.		1,1,1		
10			100%	14	SILTY SAND: Dark brown, fine grained with large pieces of wood, no petroleum odor.		1,1,2,4		
15									
20									

APPENDIX B
GROUNDWATER ANALYTICAL DATA

NAS CECIL FIELD -- TANK G543
 UST GREY ANALYTICAL PARAMETERS -- REPORT NO. 9491

Lab Sample Number: B7C2201010
 Site BRACGREY
 Locator CEF5431S
 Collect Date: 20-MAR-97

VALUE QUAL UNITS DL

BRACGREY ANALYTICAL PARAMETERS

1,1,1-Trichloroethane	1 U	ug/l	1
1,1,2,2-Tetrachloroethane	1 U	ug/l	1
1,1,2-Trichloroethane	1 U	ug/l	1
1,1-Dichloroethane	1 U	ug/l	1
1,1-Dichloroethene	1 U	ug/l	1
1,2-Dichlorobenzene	1 U	ug/l	1
1,3-Dichlorobenzene	1 U	ug/l	1
1,4-Dichlorobenzene	1 U	ug/l	1
1,2-Dichloroethane	1 U	ug/l	1
1,2-Dichloropropane	1 U	ug/l	1
1-Methylnaphthalene	2 U	ug/l	2
2-Methylnaphthalene	2 U	ug/l	2
Acenaphthene	2 U	ug/l	2
Acenaphthylene	2 U	ug/l	2
Anthracene	2 U	ug/l	2
Benzene	1 U	ug/l	1
Benzo (a) anthracene	.1 U	ug/l	.1
Benzo (a) pyrene	.1 U	ug/l	.1
Benzo (b) fluoranthene	.1 U	ug/l	.1
Benzo (g,h,i) perylene	.2 U	ug/l	.2
Benzo (k) fluoranthene	.15 U	ug/l	.15
Bromodichloromethane	1 U	ug/l	1
Bromoform	1 U	ug/l	1
Bromomethane	1 U	ug/l	1
Carbon tetrachloride	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1
Chloromethane	1 U	ug/l	1
Chloroform	1 U	ug/l	1
Chloromethane	1 U	ug/l	1
Chrysene	.1 U	ug/l	.1
Dibenzo (a,h) anthracene	.2 U	ug/l	.2
Dibromochloromethane	1 U	ug/l	1
Dichlorodifluoromethane	1 U	ug/l	1
Ethylbenzene	1 U	ug/l	1
Ethylene dibromide	.02 U	ug/l	.02
Fluoranthene	.2 U	ug/l	.2
Fluorene	2 U	ug/l	2
Indeno (1,2,3-cd) pyrene	.1 U	ug/l	.1
Lead	5 U	ug/l	5
Methyl tert-butyl ether	1 U	ug/l	1
Methylene chloride	1 U	ug/l	1
Naphthalene	2 U	ug/l	2
Phenanthrene	2 U	ug/l	2
Pyrene	.2 U	ug/l	.2
Tetrachloroethene	1 U	ug/l	1
Toluene	1 U	ug/l	1
Total petroleum hydrocarbons	.5 U	mg/l	.5
Trichloroethene	1 U	ug/l	1
Trichlorofluoromethane	1 U	ug/l	1
Vinyl chloride	1 U	ug/l	1

NAS CECIL FIELD -- TANK G543
UST GREY ANALYTICAL PARAMETERS -- REPORT NO. 9491

Lab Sample Number: B7C2201010
Site BRACGREY
Locator CEF5431S
Collect Date: 20-MAR-97

VALUE QUAL UNITS DL

Xylenes (total)	1 U	ug/l	1
cis-1,3-Dichloropropene	1 U	ug/l	1
trans-1,2-Dichloroethene	1 U	ug/l	1
trans-1,3-Dichloropropene	1 U	ug/l	1

Lead-DISS -

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE