

N60200.AR.000703
NAS CECIL FIELD, FL
5090.3a

STORAGE TANK CLOSURE ASSESSMENT FORM FOR FIELD ENLISTED HOUSING UNIT
404 WITH ATTACHMENTS NAS CECIL FIELD FL
7/10/1995
INNOVATIVE SERVICES INTERNATIONAL



INNOVATIVE SERVICES INTERNATIONAL, INC.

COMPLETED CLOSURE REPORTS:

ENLISTED HOUSING #400	ENLISTED HOUSING #429
ENLISTED HOUSING #401	ENLISTED HOUSING #430
ENLISTED HOUSING #402	ENLISTED HOUSING #431
ENLISTED HOUSING #403	ENLISTED HOUSING #432
ENLISTED HOUSING #404	ENLISTED HOUSING #433
ENLISTED HOUSING #405	ENLISTED HOUSING #434
ENLISTED HOUSING #406	ENLISTED HOUSING #435
ENLISTED HOUSING #407	ENLISTED HOUSING #436
ENLISTED HOUSING #408	ENLISTED HOUSING #437
ENLISTED HOUSING #412	ENLISTED HOUSING #438
ENLISTED HOUSING #413	ENLISTED HOUSING #439
ENLISTED HOUSING #414	ENLISTED HOUSING #440
ENLISTED HOUSING #415	ENLISTED HOUSING #441
ENLISTED HOUSING #416	OFFICER HOUSING UNIT "F"
ENLISTED HOUSING #417	OFFICER HOUSING UNIT "G"
ENLISTED HOUSING #418	OFFICER HOUSING UNIT "H"
ENLISTED HOUSING #419	OFFICER HOUSING UNIT "I"
ENLISTED HOUSING #420	OFFICER HOUSING UNIT "J"
ENLISTED HOUSING #421	OFFICER HOUSING UNIT "K"
ENLISTED HOUSING #422	OFFICER HOUSING UNIT "L"
ENLISTED HOUSING #423	OFFICER HOUSING UNIT "M"
ENLISTED HOUSING #424	OFFICER HOUSING UNIT "N"
ENLISTED HOUSING #425	OFFICER HOUSING UNIT "O"
ENLISTED HOUSING #426	OFFICER HOUSING UNIT "P"
ENLISTED HOUSING #427	OFFICER HOUSING UNIT "Q"
ENLISTED HOUSING #428	OFFICER HOUSING UNIT "R"



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-761.60216
Form Title: Closure Assessment Form
Effective Date: December 10, 1990
DER Application No. (Print on the DER)

Closure Assessment Form

Owners of storage tank systems that are replacing, removing or closing in place storage tanks shall use this form to demonstrate that a storage system closure assessment was performed in accordance with Rule 17-761 or 17-762, Florida Administrative Code. Eligible Early Detection Incentive (EDI) and Reimbursement Program sites do not have to perform a closure assessment.

Please Print or Type
Complete All Applicable Blanks

- 1. Date: July 10, 1995
2. DER Facility ID Number: N/A
3. County: Duval
4. Facility Name: Naval Air Station - Cecil Field Enlisted Housing Unit # 404
5. Facility Owner: U.S. Navy
6. Facility Address: Naval Air Station - Cecil Field
7. Mailing Address: Naval Air Station - Cecil Field
8. Telephone Number:
9. Facility Operator: U.S. Navy
10. Are the Storage Tank(s): (Circle one or both) A. Aboveground or [X] B. Underground
11. Type of Product(s) Stored: #2 Heating Oil
12. Were the Tank(s): (Circle one) A. Replaced [X] B. Removed C. Closed in Place D. Upgraded (aboveground tanks only)
13. Number of Tanks Closed: One (1)
14. Age of Tanks: Unknown

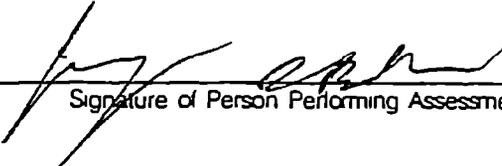
Facility Assessment Information

- Yes No Not Applicable
1. Is the facility participating in the Florida Petroleum Liability Insurance and Restoration Program (FPLIRP)? [X] [] []
2. Was a Discharge Reporting Form submitted to the Department? [X] [] []
If yes, When: Where:
3. Is the depth to ground water less than 20 feet? [X] [] []
4. Are monitoring wells present around the storage system? [] [X] []
If yes, specify type: [] Water monitoring [] Vapor monitoring
5. Is there free product present in the monitoring wells or within the excavation? [] [] [X]
6. Were the petroleum hydrocarbon vapor levels in the soils greater than 500 parts per million for gasoline? [] [] []
Specify sample type: [] Vapor Monitoring wells [] Soil sample(s)
7. Were the petroleum hydrocarbon vapor levels in the soils greater than 50 parts per million for diesel/kerosene? [X] [] []
Specify sample type: [] Vapor Monitoring wells [X] Soil sample(s)
8. Were the analytical laboratory results of the ground water sample(s) greater than the allowable state target levels? (See target levels on reverse side of this form and supply laboratory data sheets) [X] [] []
9. If a used oil storage system, did a visual inspection detect any discolored soil indicating a release? [] [] [X]
10. Are any potable wells located within 1/4 of a mile radius of the facility? [] [] [X]
11. Is there a surface water body within 1/4 mile radius of the site? If yes, indicate distance:

DER Form 17-761.900(1)
Form Title: Closure Assessment Form
Effective Date: December 10 1990
DER Application No. _____ (Filed in by DER)

12. A detailed drawing or sketch of the facility that includes the storage system location, monitoring wells, buildings, storm drains, sample location, and dispenser locations must accompany this form.
13. If a facility has a pollutant storage tank system that has both gasoline and kerosene/diesel stored on site, both EPA Method 602 and EPA Method 610 must be performed on the ground water samples obtained.
14. Amount of soils removed and receipt of proper disposal.
15. If yes is answered to any one of questions 5-9, a Discharge Reporting Form 17-761.900(1) indicating a suspected release shall be submitted to the Department within one working day.
16. A copy of this form and any attachments must be submitted to the Department's district office in your area and to the locally administered program office under contract with the Department within 60 days of completion of tank removal or filling a tank with an inert material.

Signature of Owner

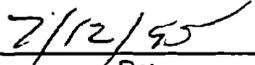


Signature of Person Performing Assessment

Professional Geologist

Title of Person Performing Assessment

Date

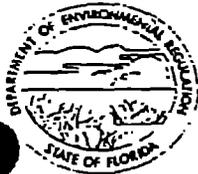


Date

State Ground Water Target Levels That Affect A Pollutant Storage Tank System Closure Assessment

State ground water target levels are as follows:

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. For gasoline (EPA Method 602): <ol style="list-style-type: none"> a. Benzene 1 ug/l b. Total VOA 50 ug/l <ul style="list-style-type: none"> - Benzene - Toluene - Total Xylenes - Ethylbenzene c. Methyl Tertiary-Butyl Ether (MTBE) 50 ug/l | <ol style="list-style-type: none"> 2. For kerosene/diesel (EPA Method 610): <ol style="list-style-type: none"> a. Polynuclear Aromatic Hydrocarbons (PAHS)
(Best achievable detection limit, 10 ug/l maximum) |
|---|--|



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form #	17-761.900(5)
Form Title	Underground Storage Tank Installation & Removal Form for Certified Contractors
Effective Date	December 10, 1990
DER Application No.	(Filed in by DER)

Underground Storage Tank Installation and Removal Form For Certified Contractors

Pollutant Storage System Specialty Contractors as defined in Section 489.113, Florida Statutes (Certified contractors as defined in Section 17-761.200, Florida Administrative Code) shall use this form to certify that the installation, replacement or removal of the storage tank system(s) located at the address listed below was performed in accordance with Department Reference Standards.

General Facility Information

- DER Facility Identification No.: N/A
- Facility Name: Naval Air Station - Cecil Field Enlist Telephone: (____) _____
- Street Address (physical location): Naval Air Station - Cecil Field Housing #404
- Owner Name: U.S. Navy Telephone: (____) _____
- Owner Address: Naval Air Station - Cecil Field
- Number of Tanks: a. Installed at this time _____ b. Removed at this time One
- Tank(s) Manufactured by: Unknown
- Date Work Initiated: 6/19/95 9. Date Work Completed: 6/26/95

Underground Pollutant Tank Installation Checklist

Please certify the completion of the following installation requirements by placing an (X) in the appropriate box.

- The tanks and piping are corrosion resistant and approved for use by State and Federal Laws.
- Excavation, backfill and compaction completed in accordance with NFPA (National Fire Protection Association) 30(87), API (American Petroleum Institute) 1615, PEI (Petroleum Equipment Institute) RP100-87 and the manufacturers' specifications.
- Tanks and piping pretested and installed in accordance with NFPA 30(87), API 1615, PEI/RP100(87) and the manufacturers' specifications.
- Steel tanks and piping are cathodically protected in accordance with NFPA 30(87), API 1632, UL (Underwriters Laboratory) 1746, STI (Steel Tank Institute) R892-89 and the manufacturer's specifications.
- Tanks and piping tested for tightness after installation in accordance with NFPA 30(87) and PEI/RP100-87.
- Monitoring well(s) or other leak detection devices installed and tested in accordance with Section 17-761.640, Florida Administrative Code (F.A.C.)
- Spill and overflow protection devices installed in accordance with Section 17-761.500, F.A.C.
- Secondary containment installed for tanks and piping as applicable in accordance with Section 17-761.500, F.A.C.

Please Note: The numbers following the abbreviations (e.g. API 1615) are publication or specification numbers issued by these institutions.

Underground Pollutant Tank Removal Checklist

- Closure assessment performed in accordance with Section 17-761.800, F.A.C.
- Underground tank removed and disposed of as specified in API 1604 in accordance with Section 17-761.800, F.A.C.

DER Form 17-761-30(15)
Underground Storage Tank Installation & Removal Form for Certified Contractors
Effective Date: December 10, 1990
DER Application No. _____ <small>(filled in by DER)</small>

Certification

I hereby certify and attest that I am familiar with the facility that is registered with the Florida Department of Environmental Regulation; that to the best of my knowledge and belief, the tank installation, replacement or removal at this facility was conducted in accordance with Chapter 489 and Section 376.303, Florida Statutes and Chapter 17-761, Florida Administrative Code (and its adopted reference sources from publications and standards of the National Fire Protection Association (NFPA), the American Petroleum Institute (API), the National Association of Corrosion Engineers (NACE), American Society for Testing and Materials (ASTM); Petroleum Equipment Institute (PEI); Steel Tank Institute (STI); Underwriters Laboratory (UL); and the tank and integral piping manufacturers' specifications; and that the operations on the checklist were performed accordingly.

Robert Boardman

(Type or Print)

Certified Pollutant Tank Contractor Name

Pollutant Storage System Specialty Contractor License Number (PSSSC)

ACC054982

PSSSC Number

[Signature]

Certified Tank Contractor Signature

7-12-95

Date

VERNON McKINNON

(Type or Print)

Field Supervisor Name

7-12-95

Date

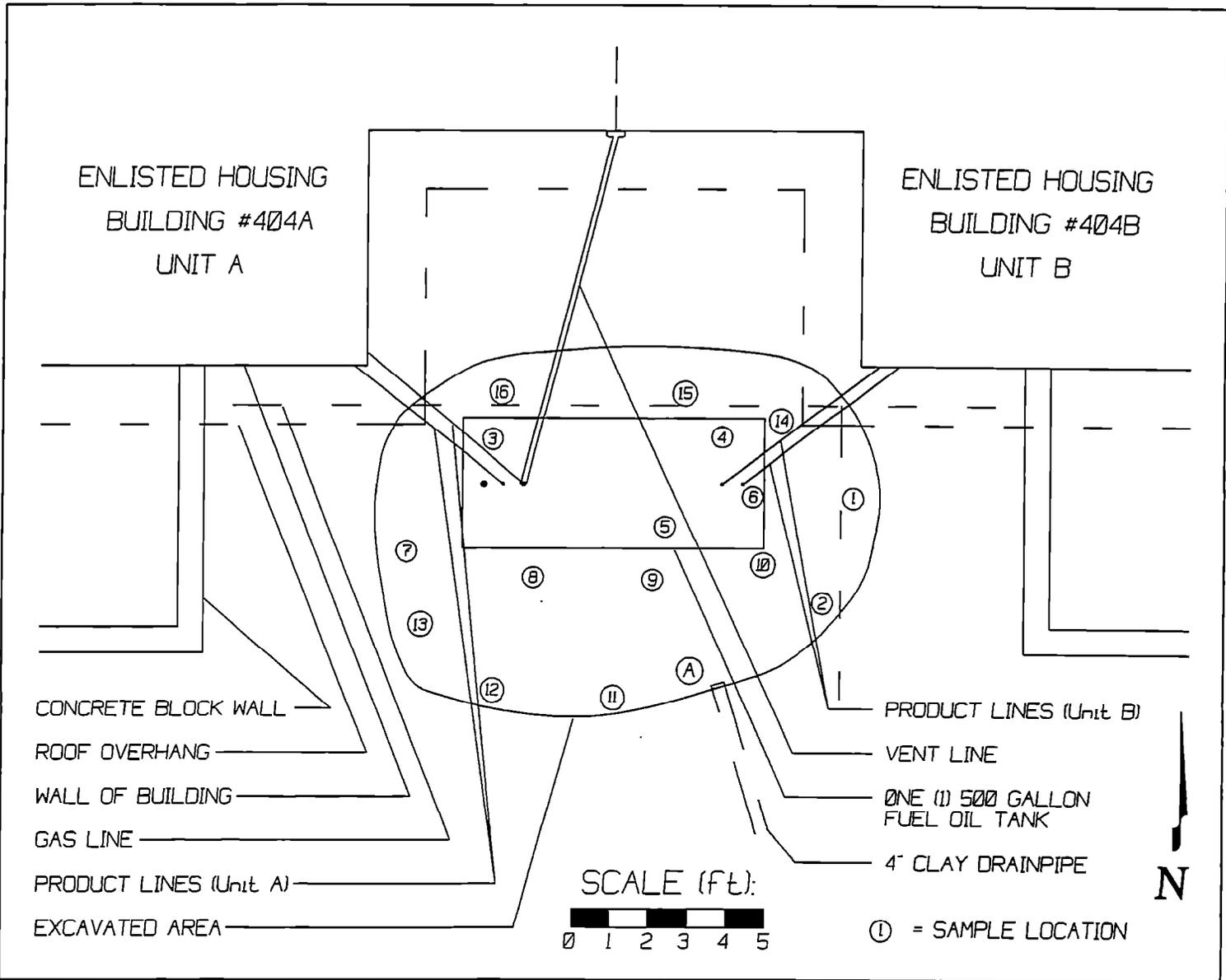
Vernon McKinnon

Field Supervisor Signature

7-12-95

Date

The owner or operator of the facility must register the tanks with the Department at least 10 days before the installation. The installer must submit this form no more than 30 days after the completion of installation to the Department of Environmental Regulation at the address printed at the top of page one.



SAMPLE #	HC READING	DEPTH	TIME (COLLECTED/READ)	SAMPLE #	HC READING	DEPTH	TIME (COLLECTED/READ)
1	00	1.5'	9:25/9:32	13	132.8	5.5'	13:50/14:07
2	00	1.5'	9:26/9:33	14	149.4	5'	13:52/14:09
3	00	1.5'	9:27/9:33	15	5.6	4.5'	13:52/14:10
4	00	1.5'	9:28/9:34	16	125.6	4.5'	13:54/14:12
5	0.5	1.5'	9:35/9:39				
6	1.0	1.5'	9:40/9:45				
7	106.7	3'	9:52/9:57				
8	9.3	3'	9:52/9:58				
9	3.1	3'	9:54/9:59				
10	3.3	3'	9:55/10:00				
11	193.2	4'	11:01/11:08				
12	161.8	4'	11:03/11:08				

NOTE: SOIL EXTREMELY DAMP FROM EXCESSIVE RAIN. GROUNDWATER ENTERING EXCAVATION IN THE AREA OF "A" ABOVE AND FROM AROUND THE CLAY PIPE HAD A PETROLEUM SHEEN. THIS SHEEN WAS WITNESSED BY S. VOCKELL, V. MCKINNON, AND J. BAKER.

ALL SAMPLES ANALYZED WITH A THERMO ENVIRONMENTAL INSTRUMENTS MODEL 580B PHOTOIONIZATION DETECTOR.



**INNOVATIVE
SERVICES
INTERNATIONAL, INC.**

SITE PLAN
ENLISTED HOUSING UNIT #404

NAVAL AIR STATION
CECIL FIELD
JACKSONVILLE, FLORIDA

GEOLOGICAL, ENVIRONMENTAL AND OCEANOGRAPHIC SCIENCES, INC.

ENVIRONMENTAL SPECIALTY LABORATORY (813) 626-0101
 5909A BRECKENRIDGE PARKWAY (813) 626-0746
 TAMPA, FLORIDA 33610-4237

IS1100014396
 Attn: RON BOARDMAN

P.O. BOX 150016
 NAS CECIL FIELD, FL
 32215

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 30 Jun 1995
 Report J5-06-187-01
 LAB ID. 82223/E82101

Sample Description:
 CECIL FIELD ENLISTED HOUSING/ CECIL FIELD N.A.S.
 TEMP. WELL @ ENLISTED HOUSING #404
 GROUNDWATER

SAMPLE ID.: ENL-404-695
 COLLECTED: 06/20/95 15:15
 RECEIVED: 06/20/95
 COLLECTED BY: S. VOCKELL

Parameter	Result	Units	Method	Det. Limit	Extracted	Analyzed	Analyst
Hydrocarbons, Total IR	9.34	mg/L	418.1	0.200	06/27/95	06/28/95	AM
Lead, Total	0.016	mg/L	239.2	0.005	06/29/95	06/30/95	JC
Polynuclear Aromatics			625\8270				
Naphthalene	16	µg/L		10	06/27/95	06/28/95	AT
Acenaphthylene	BDL	µg/L		10	06/27/95	06/28/95	AT
1-Methylnaphthalene	23	µg/L		10	06/27/95	06/28/95	AT
2-Methylnaphthalene	33	µg/L		10	06/27/95	06/28/95	AT
Acenaphthene	BDL	µg/L		10	06/27/95	06/28/95	AT
Fluorene	BDL	µg/L		10	06/27/95	06/28/95	AT
Phenanthrene	BDL	µg/L		10	06/27/95	06/28/95	AT
Anthracene	BDL	µg/L		10	06/27/95	06/28/95	AT
Fluoranthene	BDL	µg/L		10	06/27/95	06/28/95	AT
Pyrene	BDL	µg/L		10	06/27/95	06/28/95	AT
Benzo(a)anthracene	BDL	µg/L		10	06/27/95	06/28/95	AT
Chrysene	BDL	µg/L		10	06/27/95	06/28/95	AT
Benzo(b)fluoranthene	BDL	µg/L		10	06/27/95	06/28/95	AT
Benzo(k)fluoranthene	BDL	µg/L		10	06/27/95	06/28/95	AT
Benzo(a)pyrene	BDL	µg/L		10	06/27/95	06/28/95	AT
Indeno(1,2,3-c,d)pyrene	BDL	µg/L		10	06/27/95	06/28/95	AT
Dibenzo(a,h)anthracene	BDL	µg/L		10	06/27/95	06/28/95	AT
Benzo(g,h,i)perylene	BDL	µg/L		10	06/27/95	06/28/95	AT
Surrogates							
Nitrobenzene-d5	89	Min: 35		Max: 114			
2-Fluorobiphenyl	76	Min: 43		Max: 116			
4-Terphenyl-d14	90	Min: 33		Max: 141			
Volatile Aromatics			602				
Methyl-tert-butyl ether	BDL	µg/L		5.0	06/25/95	06/25/95	MD
Benzene	BDL	µg/L		1.0	06/25/95	06/25/95	MD
Toluene	BDL	µg/L		1.0	06/25/95	06/25/95	MD
Ethyl benzene	2.1	µg/L		1.0	06/25/95	06/25/95	MD
Xylene, Total	1.9	µg/L		1.0	06/25/95	06/25/95	MD

ISI100014396

Attn: RON BOARDMAN

P.O. BOX 150016
 NAS CECIL FIELD, FL
 32215

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Report J5-06-187-01

LAB ID. 82223/E82101

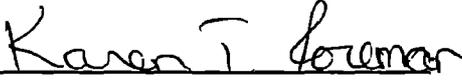
Parameter	Result	Units	Method	Det. Limit	Extracted	Analyzed	Analyst
Chlorobenzene	BDL	µg/L		1.0	06/25/95	06/25/95	MD
1,4-Dichlorobenzene	BDL	µg/L		1.0	06/25/95	06/25/95	MD
1,3-Dichlorobenzene	BDL	µg/L		1.0	06/25/95	06/25/95	MD
1,2-Dichlorobenzene	BDL	µg/L		1.0	06/25/95	06/25/95	MD
Surrogates							
Bromobenzene	99.6	Min: 70		Max: 130			
Volatile Halocarbons			601				
Dichlorodifluoromethane	BDL	µg/L		1.0	06/23/95	06/23/95	MD
Chloromethane	BDL	µg/L		1.0	06/23/95	06/23/95	MD
Bromomethane	BDL	µg/L		1.0	06/23/95	06/23/95	MD
Vinyl chloride	BDL	µg/L		1.0	06/23/95	06/23/95	MD
Chloroethane	BDL	µg/L		1.0	06/23/95	06/23/95	MD
Methylene chloride	BDL	µg/L		1.0	06/23/95	06/23/95	MD
Trichlorofluoromethane	BDL	µg/L		1.0	06/23/95	06/23/95	MD
1,1-Dichloroethene	BDL	µg/L		1.0	06/23/95	06/23/95	MD
1,1-Dichloroethane	BDL	µg/L		1.0	06/23/95	06/23/95	MD
total-1,2-Dichloroethene	BDL	µg/L		1.0	06/23/95	06/23/95	MD
Chloroform	BDL	µg/L		1.0	06/23/95	06/23/95	MD
1,2-Dichloroethane	BDL	µg/L		1.0	06/23/95	06/23/95	MD
1,1,1-Trichloroethane	BDL	µg/L		1.0	06/23/95	06/23/95	MD
Carbon tetrachloride	BDL	µg/L		1.0	06/23/95	06/23/95	MD
Bromodichloromethane	BDL	µg/L		1.0	06/23/95	06/23/95	MD
1,2-Dichloropropane	BDL	µg/L		1.0	06/23/95	06/23/95	MD
trans-1,3-Dichloropropene	BDL	µg/L		1.0	06/23/95	06/23/95	MD
Trichloroethene	BDL	µg/L		1.0	06/23/95	06/23/95	MD
Dibromochloromethane	BDL	µg/L		1.0	06/23/95	06/23/95	MD
1,1,2-Trichloroethane	BDL	µg/L		1.0	06/23/95	06/23/95	MD
cis-1,3-Dichloropropene	BDL	µg/L		1.0	06/23/95	06/23/95	MD
2-Chloroethylvinyl ether	BDL	µg/L		1.0	06/23/95	06/23/95	MD
Bromoform	BDL	µg/L		1.0	06/23/95	06/23/95	MD
1,1,2,2-Tetrachloroethane	BDL	µg/L		1.0	06/23/95	06/23/95	MD
Tetrachloroethene	BDL	µg/L		1.0	06/23/95	06/23/95	MD
Chlorobenzene	BDL	µg/L		1.0	06/23/95	06/23/95	MD
1,3-Dichlorobenzene	BDL	µg/L		1.0	06/23/95	06/23/95	MD
1,2-Dichlorobenzene	BDL	µg/L		1.0	06/23/95	06/23/95	MD

ISI100014396
Attn: RON BOARDMAN

P.O. BOX 150016
NAS CECIL FIELD, FL
32215

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30 Jun 1995
Report J5-06-187-01
LAB ID. 82223/E82101

Parameter	Result	Units	Method	Det. Limit	Extracted	Analyzed	Analyst
1,4-Dichlorobenzene	BDL	µg/L		1.0	06/23/95	06/23/95	MD
Surrogates							
Bromobenzene	101	Min: 70		Max: 130			


Karen Foreman, Laboratory Director



CHAIN OF CUSTODY RECORD

1057 N. ELLIS ROAD, SUITE 17, JACKSONVILLE, FL 32254-2249 • (904) 786-8340
 5909A BRECKENRIDGE PARKWAY, TAMPA, FL 33610-4237 • (813) 626-0101

JOB NUMBER: 0210 6/18/95

CLIENT NAME: ISI		PROJECT NAME: Cecil Field Enlisted Housing		PRESERVATIVE HCL UN HCL HNO ₃ 5x 40 ml 1000 ml 1000 ml 500 ml PLASTIC CONTAINER SIZE AND TYPE 601, 602 w/MTBE 610 TP# Pb
ADDRESS:		P. O. NUMBER / PROJECT NUMBER		
PHONE: 778-2904 FAX:		PROJECT LOCATION: Cecil Field - NAS		
CONTACT: R. Boardman		SAMPLED BY: SCOTT W. VOCKELL		
TURN AROUND TIME or RESULTS DUE BY: <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> VERBAL <input type="checkbox"/> RUSH <input type="checkbox"/> FAX <input type="checkbox"/> OTHER <input type="checkbox"/> HARD COPY		SPECIAL INSTRUCTIONS:		

SAMPLE ID	SAMPLE DESCRIPTION	SAMPLING		MATRIX	NO. OF CONTAIN.	PRESERVATIVE			
		DATE	TIME			1	2	3	4
ENL-404-695	Temp Well @ Enlisted Housing #404	6/20/95	1515	GW	6	X	X	X	X

* GW—Groundwater SW—Surface Water DW—Drinking Water WW—Wastewater SO—Solid/Soil SL—Sludge HW—Hazardous Waste A—Air

FIELD PARAMETERS / COMMENTS:	TRANS. NO.	TRANSFERS RELINQUISHED BY:	ACCEPTED BY:	DATE	TIME
	1	Scott W Vockell	K Hawill	6/20/95	1640
	2				
	3				
CONTAINERS/SEALS INTACT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		SHIPPED VIA			