N60200.AR.000548
NAS CECIL FIELD, FL
5090.3a

STORAGE TANK CLOSURE ASSESSMENT FORM FOR FIELD HOUSING UNIT 401 WITH ATTACHMENTS NAS CECIL FIELD FL
1/24/1995
INNOVATIVE SERVICES INTERNATIONAL

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

DER Form # 17-761(00)(6)
Form Title Closure Assessment Form
Effective Date December 10 1990
DER Application No. _____ (Filled in by 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 assesment 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: January 24, 1995
2. DER Facility ID Number: N/A 3. County: Duval
4. Facility Name: Cecil Field Housing: Unit 401
5. Facility Owner: U.S. Navy
6. Facility Address: N.A.S. Cecil Field
7. Mailing Address: N.A.S. Cecil Field
8. Telephone Number: (_____) _____ 9. Facility Operator: U.S. Navy
10. Are the Storage Tank(s): **(Circle one or both)** A. Aboveground or B. Underground
11. Type of Product(s) Stored: #2 Heating Oil
12. Were the Tank(s): **(Circle one)** A. Replaced B. Removed C. Closed in Place D. Upgraded (aboveground tanks only)
13. Number of Tanks Closed: One 14. Age of Tanks: Unknown

Facility Assessment Information

Yes	No	Not Applicable	
☐	X		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? If yes, When: _____ Where: _____
X	☐		3. Is the depth to ground water less than 20 feet?
☐	X	☐	4. Are monitoring wells present around the storage system? If yes, specify type: ☐ Water monitoring ☐ Vapor monitoring
☐	X	☐	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)
☐	X	☐	7. Were the petroleum hydrocarbon vapor levels in the soils greater than 50 parts per million for diesel/kerosene? 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 ¼ of a mile radius of the facility?
☐	X		11. Is there a surface water body within ¼ mile radius of the site? If yes, indicate distance: _____

Northwest District 160 Governmental Center Pensacola, Florida 32501-5794
Northeast District 7825 Baymeadows Way, Suite B 200 Jacksonville, Florida 32207
Central District 3319 Maguire Blvd. Suite 232 Orlando, Florida 32803-3767
Southwest District 4520 Oak Fair Blvd. Tampa, Florida 33610-7347
South District 2295 Hay St. Fort Myers, Florida 33901-2856
Southeast District 1900 S. Congress Ave. Suite A West Palm Beach, Florida 33406

DER Form #	17-761.900(b)
Form Title	Closure Assessment Form
Effective Date	December 10, 1990
DER Application No.	(Filled in by DER)

12. A detailed drawing or sketch of the facility that includes the storage system location, monitoring wells, buildings, storm drains, sample locatior 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 Methc 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 submitt 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 pr gram 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 — Date

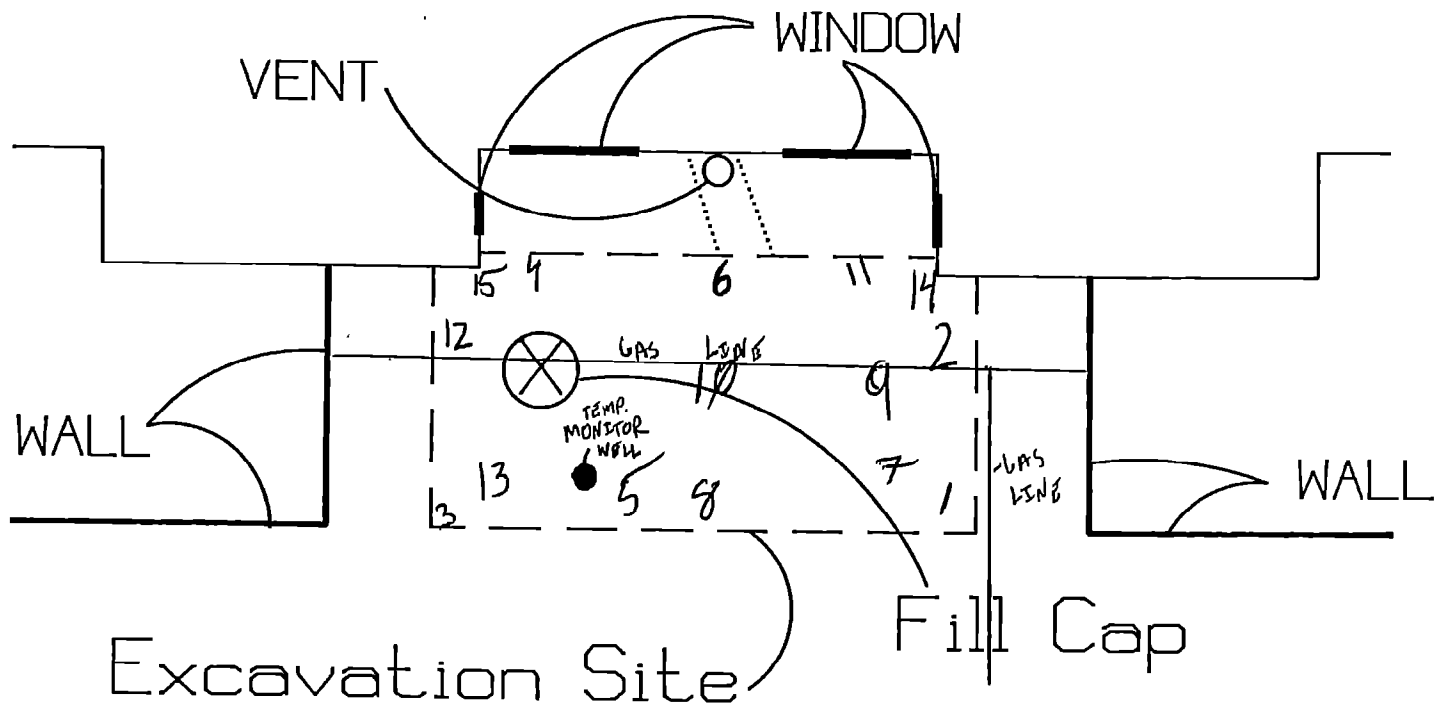
Signature of Person Performing Assessment — Date: 3/3/95

Professional Geologist
Title of Person Performing Assessment

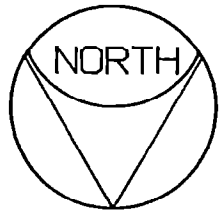
State Ground Water Target Levels That Affect A Pollutant Storage Tank System Closure Assessment

State ground water target levels are as follows:

1. For gasoline (EPA Method 602):
   a. Benzene — 1 ug/l
   b. Total VOA — 50 ug/l
      - Benzene
      - Toluene
      - Total Xylenes
      - Ethylbenzene
   c. Methyl Test-Butyl Ether (MTBE) — 50 ug/l
2. For kerosene/diesel (EPA Method 610):
   a. Polynuclear Aromatic Hydrocarbons (PAHS) (Best achievable detection limit, 10 ug/l maximum)


WINDOW
VENT
WALL
WALL
GAS LINE
TEMP. MONITOR WELL
GAS LINE
Excavation Site
Fill Cap
15
4
6
11
14
12
2
10
9
13
5
8
7
1
3

Bldg. 401


NORTH

Closure Report for Cecil Field Housing
Building 401

OVA RESULTS**

Sample #	W/O Carbon	W/Carbon	Adjusted	Depth (FT)
1	0	0	0	1.00
2	0	0	0	1.00
3	0	0	0	1.00
4	0	0	0	1.00
5	0	0	0	1.00
6	0	0	0	1.00
7	0	0	0	4.00
8	0	0	0	4.00
9	0	0	0	3.00
10	0	0	0	3.00
11	0	0	0	2.00
12	0	0	0	2.00
13	0	0	0	3.00
14	0	0	0	1.00
15	0	0	0	1.00

**= Results are in ppm

Geological Environmental and Oceanographic Sciences, Inc.

1627 East 8th Street
Jacksonville, Florida 32206-5407
(904) 354-6755
(800) 486-6755
(904) 354-3799 Fax

Water
Soil
Air
Analysis and Consulting

Geos Inc.

ISI100014396
Attn: STEVE DILLON

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

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27 Feb 1995
Report J5-02-041-01
LAB ID. 82223/E82101

Sample Description:
ISI/CECIL FIELD
TEMP. MONITOR WELLS
GROUNDWATER

SAMPLE ID.: BLDG. 401
COLLECTED: 02/06/95 11:25
RECEIVED: 02/06/95
COLLECTED BY: N. ROGERS/R. RUSHING

Parameter	Result		Units	Method	Det. Limit	Extracted	Analyzed	Analyst
Job: KERO KEROSENE GROUP								
Hydrocarbons, Total IR	0.661		mg/L	418.1	0.200	02/07/95	02/07/95	AM
Lead, Total	0.040		mg/L	239.2	0.005	02/07/95	02/09/95	JC
Polynuclear Aromatics				625\8270				
Naphthalene	BDL		µg/L		10	02/08/95	02/08/95	MD
Acenaphthylene	BDL		µg/L		10	02/08/95	02/08/95	MD
1-Methylnaphthalene	BDL		µg/L		10	02/08/95	02/08/95	MD
2-Methylnaphthalene	BDL		µg/L		10	02/08/95	02/08/95	MD
Acenaphthene	BDL		µg/L		10	02/08/95	02/08/95	MD
Fluorene	BDL		µg/L		10	02/08/95	02/08/95	MD
Phenanthrene	BDL		µg/L		10	02/08/95	02/08/95	MD
Anthracene	BDL		µg/L		10	02/08/95	02/08/95	MD
Fluoranthene	BDL		µg/L		10	02/08/95	02/08/95	MD
Pyrene	BDL		µg/L		10	02/08/95	02/08/95	MD
Benzo(a)anthracene	BDL		µg/L		10	02/08/95	02/08/95	MD
Chrysene	BDL		µg/L		10	02/08/95	02/08/95	MD
Benzo(b)fluoranthene	BDL		µg/L		10	02/08/95	02/08/95	MD
Benzo(k)fluoranthene	BDL		µg/L		10	02/08/95	02/08/95	MD
Benzo(a)pyrene	BDL		µg/L		10	02/08/95	02/08/95	MD
Indeno(1,2,3-c,d)pyrene	BDL		µg/L		10	02/08/95	02/08/95	MD
Dibenzo(a,h)anthracene	BDL		µg/L		10	02/08/95	02/08/95	MD
Benzo(g,h,i)perylene	BDL		µg/L		10	02/08/95	02/08/95	MD
Surrogates								
Nitrobenzene-d5	77	Min: 35		Max: 114				
2-Fluorobiphenyl	90	Min: 43		Max: 116				
4-Terphenyl-d14	96	Min: 33		Max: 141				
Volatile Aromatics				602				
Methyl-tert-butyl ether	BDL		ug/L		5.0	02/17/95	02/17/95	XX
Benzene	BDL		ug/L		1.0	02/17/95	02/17/95	XX

Tampa
Jacksonville

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ISII00014396
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32215

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Parameter	Result		Units	Method	Det. Limit	Extracted	Analyzed	Analyst
Toluene	2.0		ug/L		1.0	02/17/95	02/17/95	XX
Ethyl benzene	BDL		ug/L		1.0	02/17/95	02/17/95	XX
Xylene, Total	2.8		ug/L		1.0	02/17/95	02/17/95	XX
Chlorobenzene	BDL		ug/L		1.0	02/17/95	02/17/95	XX
1,4-Dichlorobenzene	BDL		ug/L		1.0	02/17/95	02/17/95	XX
1,3-Dichlorobenzene	BDL		ug/L		1.0	02/17/95	02/17/95	XX
1,2-Dichlorobenzene	BDL		ug/L		1.0	02/17/95	02/17/95	XX
Surrogates								
Bromobenzene	79.7	Min: 70		Max: 130				
Volatile Halocarbons				601				
Dichlorodifluoromethane	BDL		ug/L		1.0	02/17/95	02/17/95	XX
Chloromethane	BDL		ug/L		1.0	02/17/95	02/17/95	XX
Bromomethane	BDL		ug/L		1.0	02/17/95	02/17/95	XX
Vinyl chloride	BDL		ug/L		1.0	02/17/95	02/17/95	XX
Chloroethane	BDL		ug/L		1.0	02/17/95	02/17/95	XX
Methylene chloride	BDL		ug/L		1.0	02/17/95	02/17/95	XX
Trichlorofluoromethane	BDL		ug/L		1.0	02/17/95	02/17/95	XX
1,1-Dichloroethene	BDL		ug/L		1.0	02/17/95	02/17/95	XX
1,1-Dichloroethane	BDL		ug/L		1.0	02/17/95	02/17/95	XX
total-1,2-Dichloroethene	BDL		ug/L		1.0	02/17/95	02/17/95	XX
Chloroform	BDL		ug/L		1.0	02/17/95	02/17/95	XX
1,2-Dichlorethane	BDL		ug/L		1.0	02/17/95	02/17/95	XX
1,1,1-Trichloroethane	BDL		ug/L		1.0	02/17/95	02/17/95	XX
Carbon tetrachloride	BDL		ug/L		1.0	02/17/95	02/17/95	XX
Bromodichloromethane	BDL		ug/L		1.0	02/17/95	02/17/95	XX
1,2-Dichloropropane	BDL		ug/L		1.0	02/17/95	02/17/95	XX
trans-1,3-Dichloropropene	BDL		ug/L		1.0	02/17/95	02/17/95	XX
Trichloroethene	BDL		ug/L		1.0	02/17/95	02/17/95	XX
Dibromochloromethane	BDL		ug/L		1.0	02/17/95	02/17/95	XX
1,1,2-Trichloroethane	BDL		ug/L		1.0	02/17/95	02/17/95	XX
cis-1,3-Dichloropropene	BDL		ug/L		1.0	02/17/95	02/17/95	XX
2-Chloroethylvinyl ether	BDL		ug/L		1.0	02/17/95	02/17/95	XX
Bromoform	BDL		ug/L		1.0	02/17/95	02/17/95	XX

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Parameter	Result	Units	Method	Det. Limit	Extracted	Analyzed	Analyst
1,1,2,2-Tetrachloroethane	BDL	ug/L		1.0	02/17/95	02/17/95	XX
Tetrachloroethene	BDL	ug/L		1.0	02/17/95	02/17/95	XX
Chlorobenzene	BDL	ug/L		1.0	02/17/95	02/17/95	XX
1,3-Dichlorobenzene	BDL	ug/L		1.0	02/17/95	02/17/95	XX
1,2-Dichlorobenzene	BDL	ug/L		1.0	02/17/95	02/17/95	XX
1,4-Dichlorobenzene	BDL	ug/L		1.0	02/17/95	02/17/95	XX
Surrogates							
Bromobenzene	79.7	Min: 70	Max: 130				

Karen T. Foreman
Karen Foreman, Laboratory Director

Lab Results VS. Florida DEP Ground Water Guidance Concentration

UNIT 400

Bldg #	Test Done		Result	Guidance [ ]
400	Lead, Total		0.033 ppm *	0.015 ppm
401	Hydrocarbons, Toral IR		0.661 ppm	
	Lead, Total		0.040 ppm *	0.015 ppm
	Volatile Aromatics	Benzene	BDL	1.0 ppb
		Ethyl benzene	BDL	
		Toluene	2.0 ppb	
		Xylene, Total	2.8 ppb	
		Total BETX	4.8 ppb	50 ppb
402	Lead, Total		0.032 ppm *	0.015 ppm
	Volatile Aromatics	Benzene	10.3 ppb	1.0 ppb
		Ethyl benzene	BDL	
		Toluene	BDL	
		Xylene, Total	3.5 ppb	
		Total BETX	13.8 ppb	50 ppb
	Volatile Halocarbons	1, 4 - Dichlorobenzene	2.6 ppb	75 ppb
403	Lead, Total		0.071 ppm *	0.015 ppm
405	Lead, Total		0.009 ppm *	0.015 ppm
	Volatile Aromatics	Benezene	1.4 ppb	1.0 ppb
		Ethyl benzene	BDL	
		Toluene	BDL	
		Xylene, Total	3.7 ppb	
		Total BETX		50 ppb
		1, 4 - Dichlorobenzene	3.0 ppb	75 ppb
	Volatile Halocarbons	1, 2 - Dichloroethane	3.4 ppb	3.0 ppb
		1, 4 - Dichlorobenzene	2.3 ppb	75 ppb
412	Lead, Total		0.015 ppm *	0.015 ppm
413	Lead, Total		0.007 ppm *	0.015 ppm
414	Lead, Total		0.048 ppm *	0.015 ppm
	Volatile Aromatics	Benzene	BDL	1.0 ppb
		Ethyl benzene	BDL	
		Toluene	BDL	
		Xylene, Total	3.7 ppb	
		Total BETX	3.7 ppb	50 ppb
415	Lead Total		0.063 ppm *	0.015 ppm
	Volatile Aromatics	Benzene	BDL	1.0 ppb
		Ethyl benzene	2.6 ppb	
		Toluene	BDL	
		Xylene, Total	9.1 ppb	
		Total BETX	11.7 ppb	50 ppb
	Volatile Halocarbons	Chloroform	6.0 ppb	6.0 ppb
		Carbon Tetrachloride	9.0 ppb	3.0 ppb
417	Hydrocarbons, Total IR		1.75 ppm	
	Lead, Total		0.059 ppm *	0.015 ppm

*** Test results for lead probably represents background levels, and not a contaminant.**