N60201.AR.002442
NS MAYPORT
5090.3a

CONTAMINATION ASSESSMENT WORK PLAN SITE UST 1343 NS MAYPORT FL
8/27/1998
BHATE ENVIRONMENTAL ASSOCIATES, INC.

CONTAMINATION ASSESSMENT WORK PLAN – SITE UST-1343
NAVAL STATION MAYPORT
MAYPORT, FLORIDA
CONTRACT NO.: N62467-96-D-0976
BEA PROJECT NO: 9970058

DATE: AUGUST 27, 1998

BUREAU OF WASTE CLEANUP
AUG 31 1998
TECHNICAL REVIEW SECTION

Prepared for:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
TWIN TOWERS OFFICE BUILDING
2600 BLAIRSTONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

ATTN: MR. JIM CASON

PREPARED BY:

BHATE ENVIRONMENTAL ASSOCIATES, INC.
1608 13TH AVENUE SOUTH
BIRMINGHAM, ALABAMA 35205
TELEPHONE: (205) 918-4000

BEA
Bhate Environmental Associates, Inc.
Environmental Engineers & Scientists

Bhate Environmental Associates, Inc.
Environmental Engineers & Scientists
1608 13th Avenue, South, Suite 300
Birmingham ■ Alabama ■ 35205
(205) 918-4000
(205) 918-4050 (FAX)

August 27, 1998

Florida Department of Environmental Protection
Twin Towers Office Building
2600 Blairstone Road
Tallahassee, Florida 32399-2400

Attention: Mr. Jim Cason

Subject: Contamination Assessment Work Plan
Site UST-1343
Naval Station Mayport
Mayport, Florida
Contract No. N62467-96-D-0976
BHATE Project No.: 9970058

Dear Mr. Cason:

Bhate Environmental Associates (BHATE) is pleased to submit the following work plan for additional Contamination Assessment at the above referenced site. BHATE has prepared this plan on behalf of the Southern Division of the Naval Facilities Engineering Command, in response to an FDEP letter dated June 4, 1998.

If you have any questions or need additional information, please contact us at 1(800)806-4001.

Respectfully Submitted,

BHATE ENVIRONMENTAL ASSOCIATES, INC.

Emmett A. Beers
Senior Project Manager

Larry D. Schutts
Technical Director
Florida Professional Geologist #497

cc: Ms. Beverly Washington
Mr. Jan Bovier

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1.0 INTRODUCTION

1.1 Location and Area of Investigation

The subject site is located at the Mayport Naval Station in Mayport, Florida. A 10,000-gallon fuel oil underground storage tank (UST) was closed in place at the site, in June of 1995.

The UST is located adjacent to Building 1343 (Figure 1). A fenced security area to the northeast contains electrical transformers and a replacement above ground fuel tank. Two above ground storage tanks, situated on a concrete pad, are located immediately north of the site, also within a fenced area. The ground surface in the immediate area of the UST is not covered and is relatively flat, with poor surface water drainage. Surface water drainage outside of the area is toward surface drainage ditches to the southeast.

1.2 Site History

In June of 1995, the 10,000-gallon UST-1343 was closed in place. An area of stained soil was reported on the northwestern end of the UST, at the ground surface. This was the location of the UST fill port. According to a UST closure report prepared by G.B. Robbins, heavily contaminated soils were identified during the excavation to the top of the tank. A copy of the closure report is provided in Appendix A.

Soil samples collected at the north and east ends of the fill port, at depths of one and two feet, exhibited very strong petroleum odors. A soil sample collected from the east side of the tank, at a depth of three feet, also exhibited very strong petroleum odors. The soils had elevated OVA headspace concentrations. Contaminated soils were not removed and ground water samples were not taken during the abandonment.

Bhate conducted a contamination assessment, during June and July of 1997. The following is a summary of site conditions based on the results of field and laboratory investigations made during the contamination assessment:

- Soil borings indicated that soils beneath the site consist of well-sorted fine sands to silty fine sands with shell fragments. These occur through boring termination, at the approximate depth of fourteen feet, bls. Construction material was encountered within the upper five feet at the location of well MW-3.

- Groundwater was encountered at depths of approximately 4 to 4.5 feet bls. The direction of groundwater movement is generally to the east, as determined from measurements on two different dates.

- OVA-FID headspace concentrations of soil samples collected from depths of one to three feet were less than 50 ppm. Stained soils were visible at the northwest end of the UST.

- Laboratory analyses of soil samples collected from depths of four to six feet bls indicated FL-PRO concentrations of 28 and 35 ppm at locations S-1 and S-3, respectively. These concentrations are below the applicable regulatory MCL of 2,500 ppm. Concentrations were below laboratory detection limits in soil samples collected from S-2 and S-4.

- Laboratory analyses of groundwater samples from three permanent monitoring wells installed at the site indicated one well, MW-1, contained detectable PAH constituents (Figure 2). PAH concentrations were below the regulatory limits. BTEX was not detected.

- Lead concentrations were above the regulatory limit, at well MW-1. The elevated concentrations may be a result of the sampling method employed.

- Free petroleum product was not measurable during June 13, 1997 groundwater sample collection. Approximately 3/8 inch of product was measured in MW-1 on August 8, 1997.

A CAR dated February 2, 1998 was submitted to the Florida Department of Environmental Protection (FDEP). The FDEP subsequently requested additional sampling activities in a letter dated June 4, 1998 (Appendix B). The following work plan was prepared to address the FDEP comments.

BEA
Bhate Environmental Associates, Inc.
Environmental Engineers & Scientists
1608 13th Avenue, South, Suite 300
Birmingham ■ Alabama ■ 35205
(205) 918-4000
(205) 918-4050 (FAX)

September 14, 1998

Florida Department of Environmental Protection
Twin Towers Office Building
2600 Blairstone Road
Tallahassee, Florida 32399-2400

Attention: Mr. Jim Cason

Subject: Addendum to Contamination Assessment Work Plan
Site UST-1343
Naval Station Mayport
Mayport, Florida
Contract No.: N62467-96-D-0976
Bhate Project No.: 9970058

Dear Mr. Cason:

Bhate Environmental Associates, Inc. (Bhate) has prepared the following addendum to our Contamination Assessment Work Plan prepared for the above referenced site and dated August 27, 1998. The addendum was prepared to address your comments during a meeting held with the Southern Division of the Naval Facilities Engineering Command on August 31, 1998.

The proposed scope of work will be expanded to include the following assessment activities:

1) If the currently proposed soil sampling locations indicate FID readings greater than 10 parts-per-million, additional hand auger borings will be advanced as needed until soil contamination is defined based on FID readings.

2) Due to the confined area around the tank, additional monitoring wells will not be required at this time.

3) Monitoring well MW-1 will be retested for semi-volatile organic compounds in addition to the previously proposed TPH and lead testing.

A report addendum summarizing these activities and the activities proposed in the original work plan will be prepared to supplement the previously submitted Contamination Assessment Report.

Please provide approval to proceed with the scope of work at your earliest convenience. If you have any questions, please contact Bhate at 1-800-806-4001.

Respectfully submitted,

BHATE ENVIRONMENTAL ASSOCIATES, INC.

Emmett A. Beers
Senior Project Manager

i:\usr\projects.bea\1997\9970058\addendum-UST 1343.doc

2.0 PLAN OF ACTION

2.1 Bhate Approach

The FDEP has requested that soil samples be collected near the tank and product line. Soil samples were also requested near a sewer line and a 12-inch water line. Installation of monitoring wells was requested, if soil contamination is found. Additional groundwater sampling for analysis of semi-volatile organic compounds (SVOC), TPH, and Lead was also requested.

The G.B. Robbins closure report indicated soil contamination at the ends of the tank. Contamination was not found along the sides of the tank, nor was it encountered near the sewer line. The 12-inch water line is inaccessible due to surface structures. Therefore, Bhate proposes to conduct soil sampling near each end of the tank and near the product line.

Additional monitoring wells are not recommended, since existing well MW-1 is within 5 feet of the northeast corner of the tank pit. Groundwater samples will be collected from MW-1 for analysis of TRPH and Lead. SVOC analysis is not recommended since previous testing using FDEP approved methodology did not indicate SVOC at the method detection limit.

2.2 Soil Sampling

A stainless steel hand auger will be used to collect soil samples near the UST and product line. The proposed soil sample locations are indicated on Figure 1. The proposed locations are approximate and may be adjusted during installation, depending on field conditions.

Two (2) soil samples will be collected from each boring, at depths of 1-2 feet bgs and 2-3 feet bgs. Soil samples will be described in the field by an environmental geologist/engineer.

Samples will be observed for evidence of petroleum hydrocarbons and field screened with a flame ionization detector (FID). FID calibration and measurements will be conducted in accordance with FDEP protocols.

If FID readings exceed 50 ppm, three (3) soil samples will be selected for laboratory analysis. Representative soil samples with the high, medium, and low FID readings will be analyzed for the following:

Parameters	EPA Method No.
Benzene, Ethylbenzene, Toluene, total Xylenes (BTEX) and MTBE	8020
Naphthalene and the 15 method-listed PAHs	8270
TRPHs	FL-PRO

2.3 Groundwater Sampling

Groundwater samples will be collected from monitoring well MW-1 for analysis at a laboratory with an approved FDEP Comprehensive Quality Assurance Plan. Prior to groundwater sample collection, three (3) well volumes will be evacuated from each well with a peristaltic pump. Groundwater samples will be collected, following protocols for low-flow sampling. They will be analyzed for FL-PRO and Total Lead concentrations.

Water evacuated during development and sampling of monitoring wells will be contained in 55 gallon drums. It is expected that the water will be disposed as non-hazardous petroleum contaminated waste.

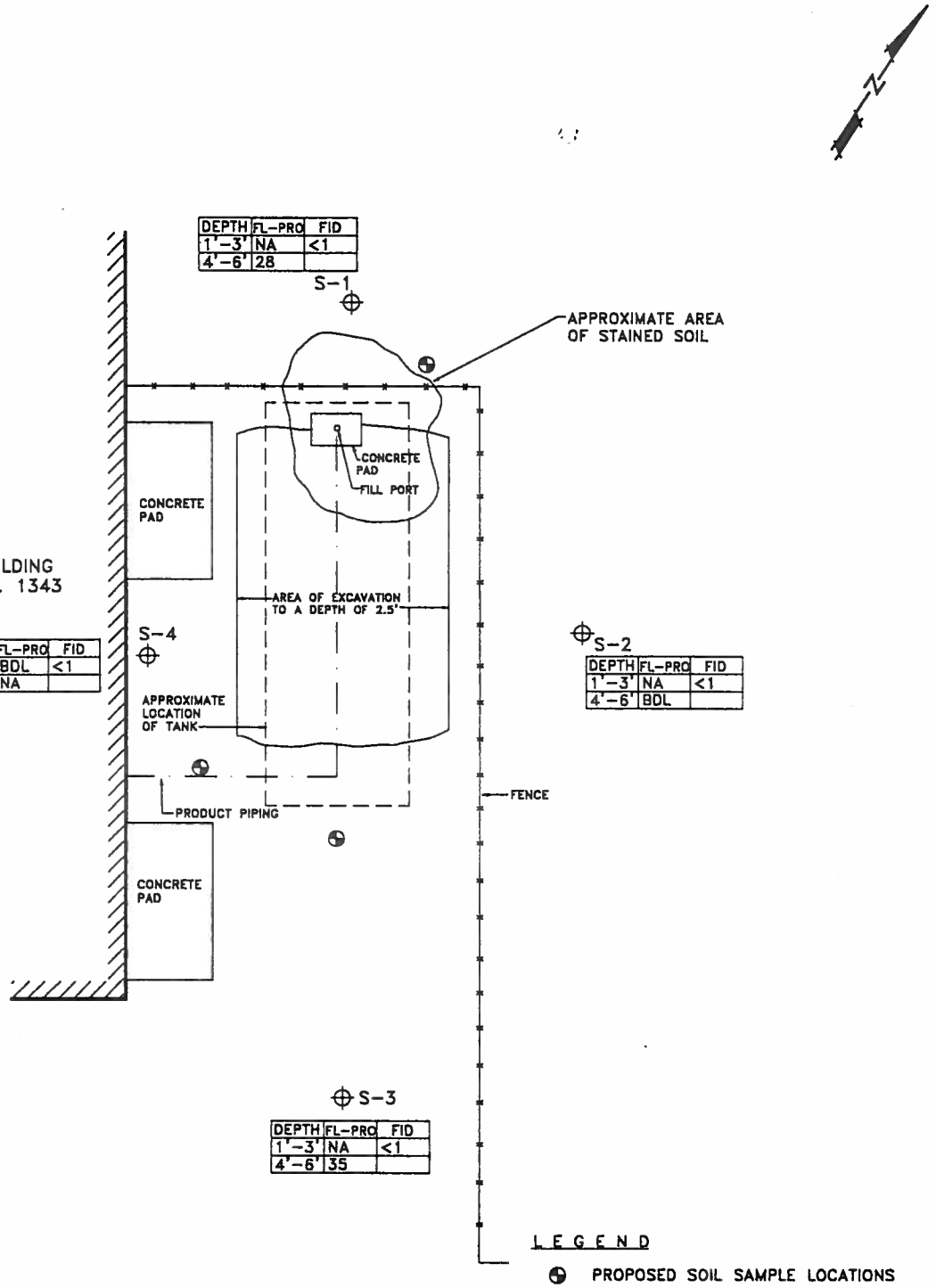
2.4 Report Preparation

A Contamination Assessment Report addendum will be prepared for the site. The report will contain the following:

- A site map, showing the locations of monitoring wells and other pertinent features;
- Copies of all laboratory analyses;
- A map of the water table surface and contaminant plume;
- Conclusions and recommendations;
- Quality assurance/quality control procedures;
- Recommendations for further assessment or corrective action, if necessary.

4.0 SCHEDULE OF IMPLEMENTATION

Bhate can begin the field work associated with this project within two (2) weeks after approval of the work plan by the FDEP and Southern Division. Two (2) days of field time and one (1) week of laboratory work will be required to complete the scope of work described in the previous sections of this work plan. Following review of the laboratory data, BEI will prepare a draft CAR addendum for submission to the client. After receipt of client comments, BEI will finalize the report within one (1) week.



NOTE:
The information shown on this map was obtained from existing maps from previous investigations prepared by others. This information is depicted to provide visual aid within the context of this plan and should not be used as a sole reference in precise dimensioning of features indicated.

-10' 0' 10'
GRAPHIC SCALE
1" = 10'

LEGEND

- PROPOSED SOIL SAMPLE LOCATIONS
- GEOPROBE SOIL AND GROOUNDWATER SAMPLING LOCATIONS
- FL-PRO FLORIDA PETROLEUM RESIDUAL ORGANICS IN PARTS PER MILLION (ppm)
- FID FLAME IONIZATION DETECTOR IN PARTS PER MILLION
- BDL BELOW DETECTION LIMITS
- NA NOT ANALYZED

BEA
Bhate Environmental Associates, Inc.
Environmental Engineers & Scientists

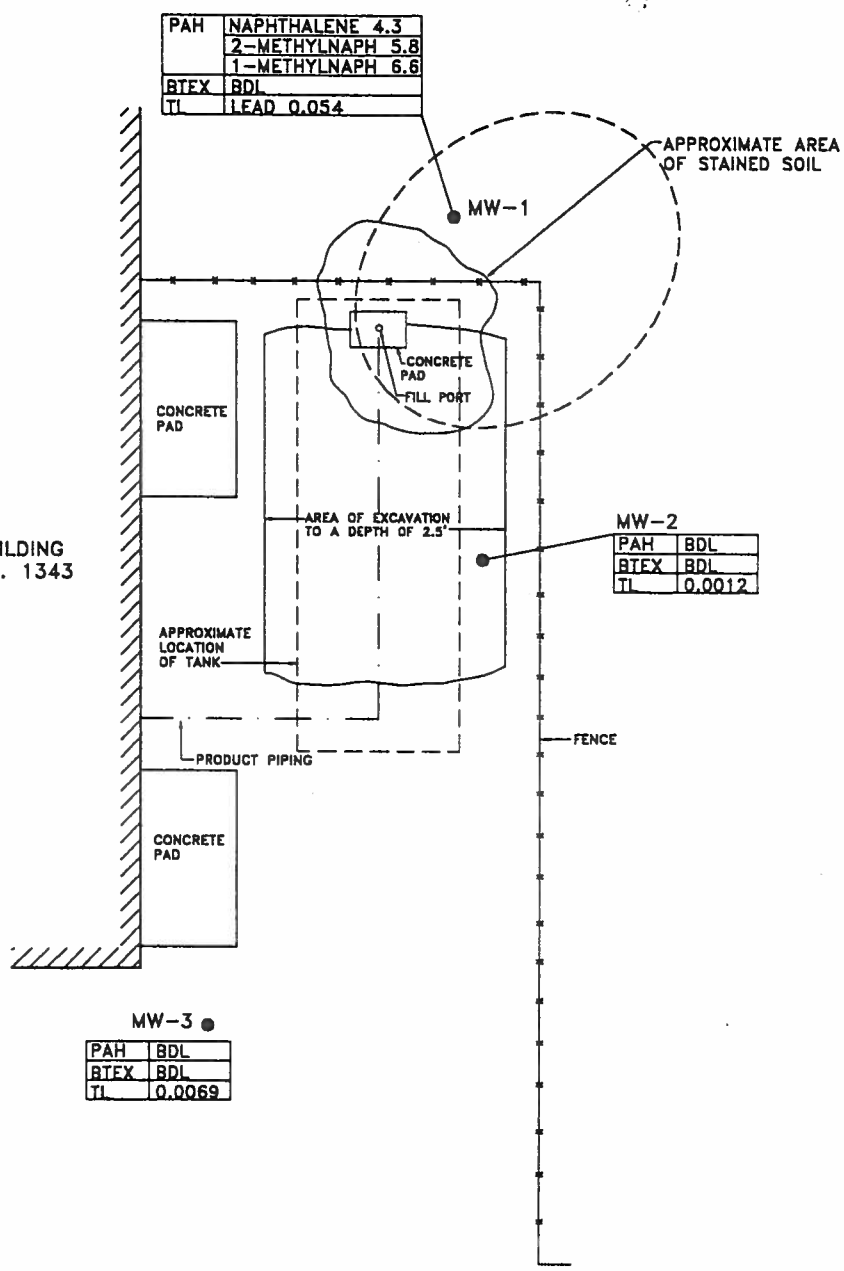
PROPOSED SOIL SAMPLE LOCATIONS

PROJECT NO.	SCALE	DATE	DRAWN BY:
9970058	1"=10'	7/21/97	DRAWING NO: F1PROP

Contamination Assessment Report
UST 1343
Department of the Navy
Naval Station Mayport
Mayport, Florida

Figure 1

NOTE: RESAMPLE MW-1 FOR TPH AND LEAD (LOW FLOW)



NOTE:
The information shown on this map was obtained from existing maps from previous investigations prepared by others. This information is depicted to provide visual aid within the context of this plan and should not be used as a sole reference in precise dimensioning of features indicated.

-10' 0' 10'
GRAPHIC SCALE
1" = 10'

LEGEND

- ● MONITOR WELL LOCATIONS
- PAH POLYNUCLEAR AROMATIC HYDROCARBONS IN PARTS PER BILLION
- BTEX BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE IN PARTS PER BILLION
- TL TOTAL LEAD IN PARTS PER MILLION
- — — — ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION

BEA
Bhate Environmental Associates, Inc.
Environmental Engineers & Scientists

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS

PROJECT NO.	SCALE	DATE	DRAWN BY:
9970058	1"=10'	7/21/97	–
			DRAWING NO: F2PROP

Contamination Assessment Report
UST 1343
Department of the Navy
Naval Station Mayport
Mayport, Florida

Figure 2

MEI Environmental Services, Inc.
TANK CLOSURE ASSESSMENT REPORT

Tank ID # 1343
FDEP FAC # 168626008
Naval Base Mayport
Mayport, Florida

July 17, 1995

Presented to:
MEI Environmental Services, Inc.
8351 Leesburg Pike
Vienna, Virginia (703) 893-1200

Presented By:
G.B. ROBBINS, INC.
P.O. Box 17132
Jacksonville, Florida 32245
(904) 724-9039

mei 1343

TABLE OF CONTENTS

CLOSURE REPORTING FORM

TANK CLOSURE FIELD ACTIVITIES

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Table 1	Organic Vapor Analysis Procedure, G.B Robbins, Inc. Soil Screening Results

List of Figures

Figure 1	Site Location, Portions of Jacksonville Beach and Mayport Quadrangles, USGS 7.5 Minute Topographic Series
Figure 2	Tank Location
Figure 3	Soil Boring Locations

List of Attachments

Tables
Figures
Photographs
Permits
Discharge Reporting Form

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

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 sto system closure assesment was performed in accordance with Rule 17-761 or 17-762, Florida Administrative Code. Eligible Early Detection In tive (EDI) and Reimbursement Program sites do not have to perform a closure assessment.

Please Print or Type
Complete All Applicable Blanks

1 Date 7/17/95

2 DER Facility ID Number 168626008 3 County DUVAL

4 Facility Name NAVAL STATION MAYPORT

5 Facility Owner DEPARTMENT OF NAVY

6 Facility Address: NAVAL STATION MAYPORT, MAYPORT, FL 32228-0067

7 Mailing Address: --SAME--

8 Telephone Number: (904) 270-6730 9 Facility Operator U. S. GOVERNMENT

10 Are the Storage Tank(s). (Circle one or both) A Aboveground or (B) Underground

11 Type of Product(s) Stored: HEAT - FUEL OIL

12 Were the Tank(s) (Circle one) (A) Replaced B. Removed C Closed in Place D Upgraded (aboveground tanks

13 Number of Tanks Closed: 1: # 1343 14. Age of Tanks: 35 YEARS

Facility Assessment Information

Yes	No	Not Applicable	
☐	☒		1. Is the facility participating in the Florida Petroleum Liability Insurance and Restoration Program (FPLIRP)?
☒	☐		2. Was a Discharge Reporting Form submitted to the Department? If yes, When: verbally 7/14/95 Where: City of Jacksonville DRES A.C. Carroll's Office
☒	☐		3. Is the depth to ground water less than 20 feet?
☐	☒	☐	4. Are monitoring wells present around the storage system? If yes, specify type: ☐ Water monitoring ☐ Vapor monitoring
☐	☐	☒	5. Is there free product present in the monitoring wells or within the excavation?
☐	☐	☒	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/kerose Specify sample type: ☐ Vapor Monitoring wells ☒ Soil sample(s)
☐	☐	☒	8. Were the analytical laboratory results of the ground water sample(s) greater than the allowable state target lev (See target levels on reverse side of this form and supply laboratory data sheets)
☐	☐	☒	9. If a used oil storage system, did a visual inspection detect any discolored soil indicating a release?
☒	☐		10. Are any potable wells located within ¼ of a mile radius of the facility?
☒	☐		11. Is there a surface water body within ¼ mile radius of the site? If yes, indicate distance 1000'

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 2269 Bay St Fort Myers, Florida 33901-2456
Southeast District 1900 S. Congress Ave., Suite

DCR Form # 17-761-900(1)
Form Title Closure Assessment Form
Effective Date December 10, 1990
DCR Application No _____ (Filled in by DCR)

12. A detailed drawing or sketch of the facility that includes the storage system location, monitoring wells, buildings, storm drains, sample locations 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.

ROBERT P. WALDEN, LCDR, CEC, USN — STAFF CIVIL ENGINEER — 10/20/95
Signature of Owner — Date

Signature of Person Performing Assessment — 7/12/95
Date

Elizabeth A. Victor / Sr. Hydrogeologist / GB Knabb, Inc.
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)

presented immediately before the tabulated OVA-FID results.

Soil screening associated with the tank closure was performed by G.B. Robbins, Inc. on June 28, 1995. Eleven soil borings were installed around the tank using a hand auger. Soil samples were collected from each of the borings at approximately 2 foot intervals starting from 1 foot below land surface (bls) to the water table which was encountered at a depth of between 4 ft bls. Screening results are presented in Table 1. Sample locations are shown in Figure 3, Soil Boring Locations.

Tank Closure

* *Soil borings were installed at no greater than ten foot spacings.*
* *Soil samples were collected from the borings at approximately two foot intervals to the water table.*
* *The area adjacent to the tank was inspected for staining. Any stressed vegetation in the area of the tank was noted.*

Piping closure

* *Piping Closure was not required.*

An area measuring approximately 10 feet by 10 feet of stained soil and distressed vegetation was observed at and to the north of the concrete pad for the fill port. Excessively contaminated soil, as defined by Chapter 62-770.200(2) was identified by screening. The excessively contaminated soil was associated with the stained soil. Notification of discharge was given verbally to A. C. Carroll's office at the City of Jacksonville Department of Regulatory and Environmental Service (DRES) on July 14, 1995. A copy of the Discharge Reporting Form is attached.

Attachments

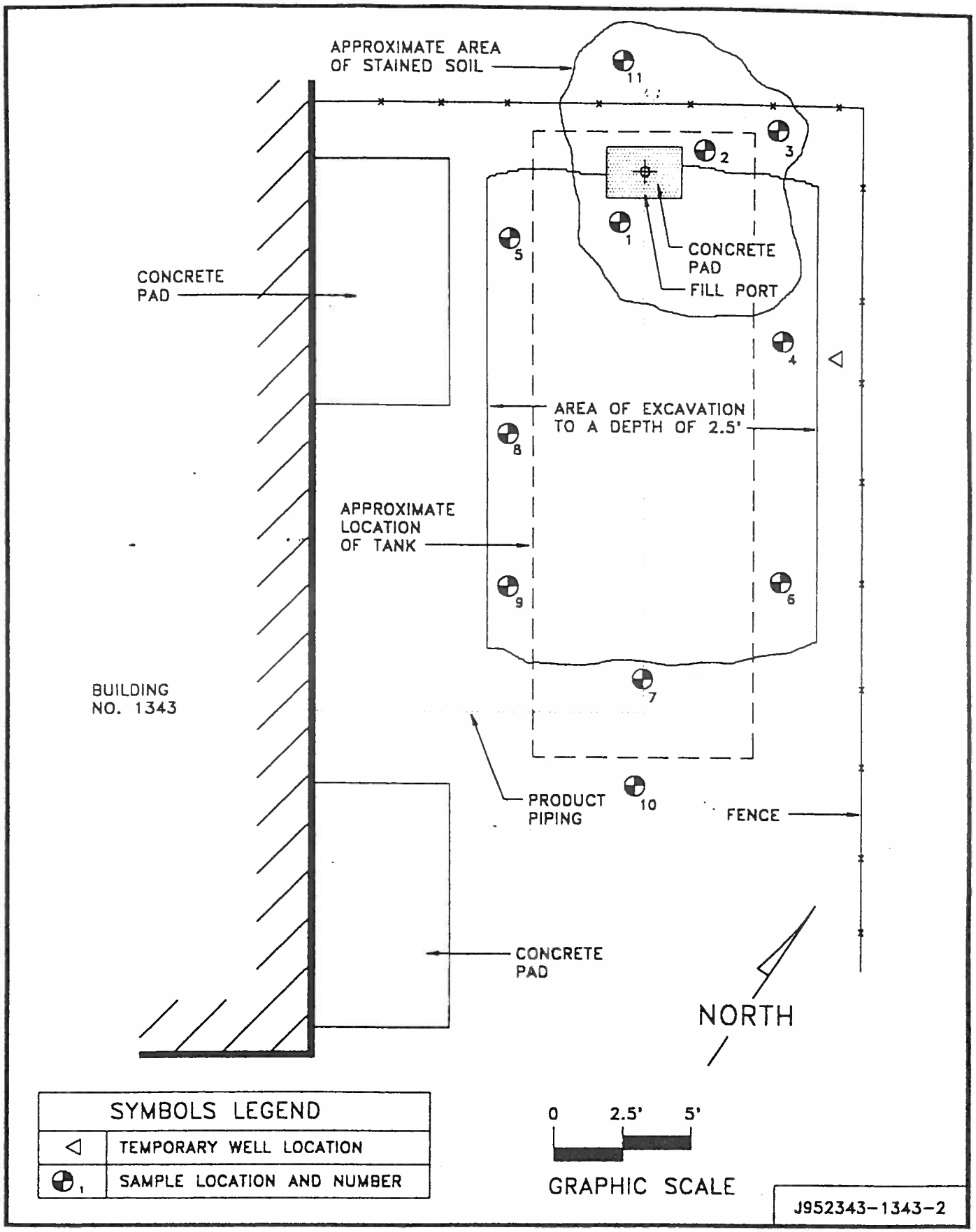
mei 1343

Tables

mei 1343

Figure

mei 1343

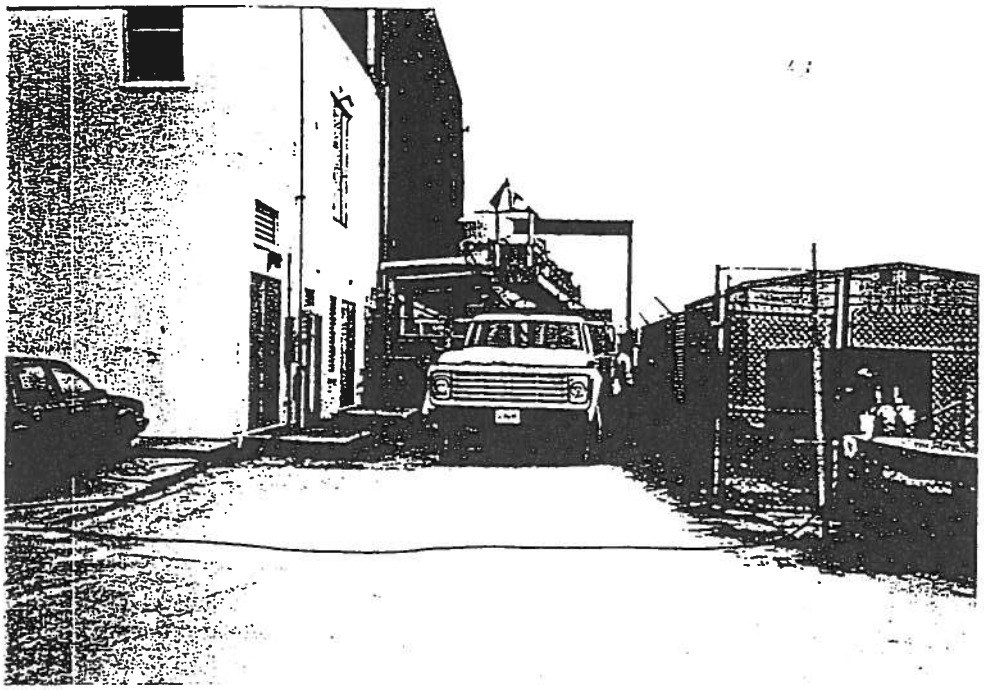


MAYPORT NAVAL STATION
MAYPORT, FLORIDA

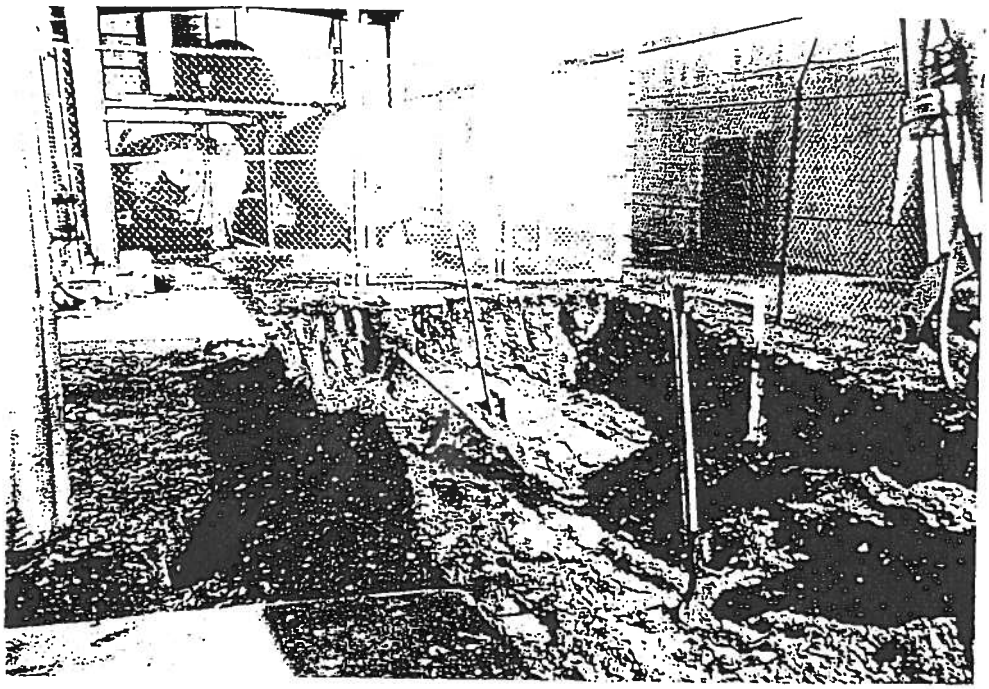
TANK 1343
FIGURE 2
TANK AND SAMPLE LOCATIONS

Photograph

mei 1343



View to North. Drill rig is positioned for installation of temporary well.



Excavation of overburden from Tank 1343 prior to closure in place. Fill port is yellow pad toward the rear of the excavation.

Permit

mei 1343

MEI
Environmental Svcs.

MAIN OFFICE:
2136 Gallows Road
Suite H
Dunn Loring, VA 22027
703-207-0500
703-207-3981(fax)

FIELD OFFICE:
Next to Bldg. 1267
Naval Station Mayport
Mayport, FL 32227
904-249-0024
904-249-0063(fax)

January 19, 1995

Duval Cty Reg & Bioenv Svcs
Water Quality Division
421 W. Church Street Suite 412
Jacksonville, FL 32203

ATTN: Lewis Shields

RE : DACA17-94-C-0084 Remove/Replace Fuel Storage Tanks, Mayport Naval Station, FL

SUB: Mayport Naval Station DER FAC ID#168626008
MEI PCC053987

Dear Mr. Shields:

We are hereby giving our notification for the closure, replacement and/or upgrade of the various storage tank systems on the above stated project. Enclosed you will find page C-2 of the Contract Plans and page 3 of the Contract Specifications section 00010, "Description of Work", which show the action required for each tank, as well as the schedule of priority.

Pursuant to our telephone conversation on January 6, MEI will commence work during the week of February 6, 1995. An estimated completion time would fall between four to six months thereafter. The required Tank Registration Forms are being generated and will be forthcoming.

MEI letter of 01-19-95
(cont'd)

In order to further discuss the schedule of work and the procedural details, we would like to meet at your convenience. Please call us at our office trailer number, 904-249-0024.

Sincerely,

Phillip W. Giuliani

encl.

cc: DER/Stg Tank Reg Section & Bureau of Waste Cleanup
2600 Blair Stone Road
Tallahassee, FL 32399-2400

DER/Stg Tank Prgm, NE District
7825 Baymeadows Way, Suite B200
Jacksonville, FL 32256-7577

Rebull & Associates
P.O. Box 85
Arlington, VA 22210-0085

Z 750 176 609

Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail.
(See Reverse)

Sent to LENISSHIELDS C/O DUVAL CTY REGT BIOENV SVCS WATER QUAL DIV	
Street and No. 421 W. Church St #412	
P.O., State and ZIP Code Jacksonville FL 32203	
Postage	$ 55
Certified Fee	110
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	110
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	$ 275
Postmark or Date	

S Form 3800, March 1993

Z 750 176 610

Receipt for Certified Mail
No Insurance Coverage Prov
Do not use for International
(See Reverse)

Sent to DER/STG TANK REG. SEC	
Street and No. 2600 BLAIR STONE RD	
P.O., State and ZIP Code TALLAHASSEE, FL 32399-24	
Postage	$ 55
Certified Fee	110
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	110
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	$ 275
Postmark or Date	

PS Form 3800, March 1993

Title of Project:

Remove/Replace Fuel Storage Tanks
Naval Station Mayport
Mayport, Florida

Description of Work:

The project consists of furnishing all materials, labor, tools, equipment, utilities, water and fuel supply, vehicular transportation, manifests, certificates, licenses, permits, and all necessary incidental services meeting all Federal, State, and local requirements to remove, close-in-place, upgrade, dismantle, temporarily store, purge, clean, haul, and dispose of underground and aboveground storage tanks, tank contents, and ancillary equipment. The project involves 48 underground storage tanks and 7 aboveground storage tanks. Work shall include: (I) closure in place of six (6) underground tanks; (II) removal only of five (5) underground tanks; (III) removal and replacement of thirty-six (36) underground tanks; (IV) the upgrading of one (1) underground storage tank; (V) the removal only of three (3) aboveground storage tanks; (VI) the removal and replacement of two (2) aboveground storage tanks; (VII) the upgrading of two (2) aboveground storage tanks; and (VIII) the restoration of tank sites to original lines and grades.

Additional remediation at the site may also be required if soil and/or groundwater contamination is detected after all of the tanks and structures are removed.

The Contractor shall be an authorized Florida Pollutant Storage System Specialty Contractor (PSSSC) licensed by the Florida Department of Professional Regulation (FDPR). All subcontractors or individuals performing soil and groundwater sampling must have an approved generic quality assurance plan on file with the Florida Department of Environmental Protection (FDEP). In addition , only laboratories that have a generic quality assurance plan approved by FDEP may be used to analyze soil and groundwater samples. LICENSING AND CERTIFICATION PROOF REQUIRED WITHIN 5 DAYS AFTER BID OPENING. Contractor's analytical laboratory must be validated by the Corps of Engineers' Missouri River Division. Proof of validation must be furnished prior to issuance of Notice to Proceed. All persons entering the work site must have current OSHA Hazardous Material Health and Safety annual training as per 29 CFR Part 1910.120. The contract shall require personnel specialized in removal and disposal of underground storage tanks as well as minor construction workers. The Contractor must obtain security clearance from the Mayport Naval Station and abide by Station regulations as put forth in SECTION 01010, Paragraph 6, CONTRACTOR ACCESS AND USE OF PREMISES.

SCHEDULE OF PRIORITY 1 TANKS

FACILITY NUMBER	CAPACITY GALLONS	MOST RECENT CONTENTS	YEAR INSTALLED	TYPE OF CONSTRUCTION	ACTION	REMARKS	DWG NO	BIC ITEM	
6	100,000	DIESEL	1950	CONCRETE UST	CLOSE		C-1	0001	
6 A	840	DIESEL	1950	STEEL UST	REMOVE		C-1	0001	⚠
83	25,000	GASOLINE	1950	STEEL UST	CLOSE		C-3	0001	
84	25,000	GASOLINE	1950	STEEL UST	CLOSE		C-3	0001	
85	10,000	GASOLINE	1950	STEEL UST	CLOSE		C-3	0001	
90	100	FUEL OIL	UNKNOWN	STEEL UST	REMOVE	2 4	C-4	0001	⚠
349 A	1,000	GASOLINE	1966	STEEL UST	REPLACE	3	C-5	0001	
349 B	1,000	DIESEL	1966	STEEL UST	REPLACE	3	C-5	0001	
349 C	350	FUEL OIL	1975	STEEL AST	REPLACE		C-5	0001	
365	500	FUEL OIL	1965	STEEL UST	REPLACE	2	C-6	0001	⚠
U-365	300	DIESEL	1965	STEEL AST	UPGRADE	1	C-6	0001	
436	550	DIESEL	1969	STEEL UST	REPLACE	4	C-7	0001	
U-436	1,000	FUEL OIL	1969	STEEL UST	REPLACE	2 4	C-7	0001	
1342	550	WASTE OIL	1975	STEEL UST	REPLACE		C-9	0001	
1363	2,500	DIESEL	1975	STEEL UST	REPLACE		C-10	0001	
U-1363	7,500	FUEL OIL	1974	STEEL UST	REPLACE		C-10	0001	⚠
1417	1,000	WASTE OIL	1981	STEEL UST	REPLACE	2 4	C-11	0001	
1488	20,000	FUEL OIL	1981	STEEL UST	REPLACE	2	C-12	0001	
1488-B	1,500	FUEL OIL	1979	STEEL UST	REMOVE		C-12	0001	⚠
1512	1,000	WASTE OIL	1980	STEEL UST	REPLACE		C-13	0001	
1515	1,000	WASTE OIL	1980	STEEL UST	REPLACE	2	C-14	0001	
U-1552	4,000	DIESEL	1983	STEEL UST	REPLACE	2	C-15	0001	
U-1591	550	DIESEL	1984	STEEL UST	REPLACE	2	C-16	0001	
555	5,000	FUEL OIL	1983	STEEL UST	REPLACE		C-20	0001	⚠
1613	100	WASTE OIL	1984	FIBERGLASS UST	REPLACE		C-17	0001	
1864	1,000	WASTE OIL	1984	STEEL UST	REPLACE		C-18	0001	
1865	150	WASTE OIL	1984	STEEL UST	REPLACE	2 4	C-19	0001	
1866	500	WASTE OIL	1983	STEEL UST	REPLACE		C-20	0001	
1587	4,000	WASTE OIL	1960	STEEL UST	REPLACE		C-37	0001	⚠
556-B	1,250	WASTE OIL	1984	STEEL UST	REPLACE		C-39	0001	⚠

GENERAL NOTES

⚠ 1. COMPLETE ALL WORK ON PRIORITY 1 TANKS PRIOR TO BEGINNING ANY WORK ON PRIORITY 2 TANKS. THE CONTRACTOR'S ACTIVITIES SHALL BE RESTRICTED TO FIVE TANK LOCATIONS, UNLESS OTHERWISE APPROVED. PERMISSION TO WORK AT MORE THAN FIVE LOCATIONS SHALL BE DEPENDENT ON THE CONTRACTOR'S PRODUCTION CAPABILITIES AND TIMELY COMPLETION OF WORK AT INDIVIDUAL SITES

2. EXISTING PIPING GASKETS MAY CONTAIN ASBESTOS

3. EXISTING UTILITIES HAVE BEEN SHOWN TO THE EXTENT KNOWN AND AS DISCOVERED IN THE PREPARATION OF THE CONSTRUCTION DOCUMENTS. THE LOCATIONS OF EXISTING UTILITIES IS APPROXIMATE AND PROVIDED FOR INFORMATION PURPOSES ONLY. NO GUARANTEE AS TO THE EXACT LOCATION OF ANY UNDERGROUND UTILITIES IS MADE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES DURING THE COURSE OF THE PROJECT

4. NO DISRUPTION OF SERVICE OF ANY UTILITY WILL BE ALLOWED WITHOUT THE PRIOR WRITTEN CONSENT OF THE CONTRACTING OFFICER

⚠ 5. FUEL TANKS. THE CONTRACTOR SHALL PROVIDE TEMPORARY FUEL TANKS, PIPING AND PUMPS AS REQUIRED TO MAINTAIN FUEL SUPPLIES TO EXISTING FACILITIES. NO FACILITY MAY BE DISCONNECTED FROM ITS FUEL SUPPLY WITHOUT PRIOR APPROVAL OF THE CONTRACTING OFFICER. CONTRACTOR SHALL ENSURE THAT TEMPORARY EQUIPMENT IS CAPABLE OF MAINTAINING PROPER FUEL SUPPLY TO EQUIPMENT. CONTRACTOR SHALL ALSO ENSURE THAT CONTAINMENT FOR ALL TEMPORARY PUMPS, PIPING AND EQUIPMENT IS PROVIDED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

6. WASTE OIL TANKS. PRIOR TO REMOVAL OF ANY WASTE OIL TANK, THE CONTRACTOR SHALL PUMP OUT THE EXISTING OIL/WATER SEPARATORS TO REDUCE THE POSSIBILITY OF DISCHARGE WHILE THE EXISTING WASTE OIL TANKS ARE BEING REMOVED. THE CONTRACTOR SHALL ALSO PROVIDE PERSONNEL AND EQUIPMENT TO PUMP OUT OIL/WATER SEPARATORS, AS REQUIRED BY FACILITY OPERATIONS, DURING THE TANK REMOVAL/REPLACEMENT OPERATION IN ORDER TO ELIMINATE DISCHARGE FROM THE SEPARATORS

⚠ 7. OILY WATER FROM OIL WATER SEPARATORS MAY BE DISPOSED OF IN THE BASE OILY/WATER SYSTEM, WITH THE APPROVAL OF THE CONTRACTING OFFICER. OILY WATER SHALL BE FILTERED TO REMOVE LARGE OBJECTS IN ACCORDANCE WITH STATION REGULATIONS. FILTER REQUIREMENTS TO BE PROVIDED BY STATION

8. ALL EXCAVATIONS FOR REMOVAL OF TEMS SHALL BE BACKFILLED WITH COMPACTED MATERIALS TO A LEVEL WHICH MATCHES ADJACENT ELEVATIONS

9. WHERE EXISTING PAVEMENT IS SHOWN TO BE REMOVED, PAVEMENT SHALL BE REPLACED AS INDICATED IN TYPICAL DETAILS

10. THE CONTRACTOR SHALL PROVIDE BARRICADES AND WARNING LIGHTS, AS REQUIRED BY THE CONTRACTING OFFICER TO WARN VEHICULAR AND PEDESTRIAN TRAFFIC OF OPEN EXCAVATIONS AND CONSTRUCTION AREAS

⚠ 11. ALL WORK TO BE DONE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

⚠ 12. THE CONTRACTOR SHALL PROVIDE A NEW GATE VALVE BETWEEN NEW FUEL PIPING AND EXISTING FUEL PIPING AT ALL LOCATIONS EXCLUDING WASTE OIL TANKS. SEE TYP DETAIL DWG C-49

DEPENDS ON FOL

NO	SYM	DATE	DESCRIPTION
	1		EDITORIAL CHANGES REVISED NOTES AMENDMENT 0001

SCHEDULE OF PRIORITY 2 TANKS

FACILITY NUMBER	CAPACITY (GALLON)	MOST RECENT CONTENTS	YEAR INSTALLED	TYPE OF CONSTRUCTION	ACTION	REMARKS	DWG. NO	BID ITEM	
53	200	FUEL OIL	1942	STEEL AST	UPGRADE	1	C-42	0010	1
164	100	DIESEL	1988	STEEL, AST	REMOVE		C-21	0010	1
191-A	6000	FUEL OIL	198[illegible]	FIBERGLASS, UST	UPGRADE		C-22	0010	1
210	300	FUEL OIL	1960	STEEL, AST	REMOVE		C-21	0010	1
242	2,000	FUEL OIL	1962	STEEL, UST	REPLACE		C-23	0002	
243	2,000	FUEL OIL	1962	STEEL, UST	REPLACE		C-24	0002	
245	2,000	FUEL OIL	1962	STEEL, UST	REPLACE	2	C-25	0002	
264	250	FUEL OIL	196[illegible]	STEEL, UST	REMOVE		C-26	0002	1
350	1,000	FUEL OIL	1965	STEEL, UST	REPLACE	2	C-27	0002	1
351	2,000	FUEL OIL	1981	STEEL, UST	CLOSE		C-28	0009	1
353	2,000	FUEL OIL	1963	STEEL, UST	CLOSE		C-38	0010	1
413	560	FUEL OIL	197[illegible]	STEEL, UST	REPLACE		C-30	0010	1
425	1,000	FUEL OIL	1968	STEEL, UST	REPLACE		C-31	0009	1
448-A	1,000	FUEL OIL	1969	STEEL, UST	REPLACE		C-32	0010	1
448-B	1,000	FUEL OIL	1984	STEEL, UST	REPLACE		C-32	0010	1
451	4,000	FUEL OIL	1969	STEEL, UST	REPLACE		C-33	0009	1
1267	1,000	FUEL OIL	1973	STEEL, UST	REMOVE		C-34	0010	1
1326	550	FUEL OIL	1978	STEEL, AST	REPLACE		C-41	0010	1
1333	1,500	FUEL OIL	198[illegible]	STEEL, UST	REPLACE		C-35	0010	1
1343	10,000	FUEL OIL	1960	STEEL, UST	REPLACE	2	C-36	0009	1
1380	8,000	UNKNOWN	1982	STEEL, AST	REMOVE		C-4	0010	1
1388	1,000	FUEL OIL	197[illegible]	STEEL, UST	REPLACE	2	C-28	0009	1
1397	2,000	FUEL OIL	1977	STEEL, UST	REPLACE	2	C-40	0009	1
1556-A	1,000	FUEL OIL	1984	STEEL, UST	REPLACE		C-39	0010	1
437	1000	DIESEL	1969	STEEL, UST	REPLACE		C-8	0009	1

REMARKS

1. RELOCATE TANK AND PROVIDE SECONDARY CONTAINMENT
2. SHORE EXCAVATION DURING TANK REMOVAL TO MINIMIZE EXCAVATION AND PROTECT EXIST STRUCTURES, EQUIPMENT AND PLANTS
3. PROVIDE FUEL DISPENSERS
4. △ OBTAIN PERMISSION PRIOR TO ENTERING AREA OF THE BASE
5. △ PROVIDE TEMPORARY FENCES AND SECURITY FOR ALL AREAS WHERE EXISTING FENCES MUST BE REMOVED FOR CONSTRUCTION PURPOSES

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

MAYPORT NAVAL STATION
MAYPORT, FLORIDA

REMOVE/REPLACE FUEL STORAGE TANKS

SCHEDULE AND NOTES

DESIGN ENG. TMT

C-

Discharge Reporting Form

mei 1343

Memorandum

To: A.C. Carroll Fax 630-3638

CC: Ken Kivlin, Rebull and Associates Fax 249-0063

From: Geraldine Bixler Robbins, G. B. Robbins, Inc.

Date: June 26, 1995 updated July 14, 1995

Subject: Naval Station , Mayport
FAC ID# 168626008
Discharge notification

Mr. Carroll, verbal discharge notification was made to your office for the following:

Tank No.	Closure Date	Verbal Notification Date
1388	6/21/95	6/26/95
353	6/21/95	6/26/95
1343	6/28/95	7/14/95

Formal Discharge Notification Form will be submitted as soon as they are made available to us by the Navy.

Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

June 4, 1998

Ms. Beverly Washington
Department of the Navy, Petroleum Program
Southern Division - Naval Facilities Engineering Command
PO Box 190010
2155 Eagle Drive
North Charleston, SC 29419-9010

file: 1343a1.doc

RE: Draft Contamination Assessment Report Tank Site 1343, Naval Station Mayport, Mayport, FL

Dear Ms. Washington:

I have reviewed the above document dated February 1998 (received February 12, 1998). The following comments should be considered by the Navy and the response submitted as a Site Assessment Report (SAR) Addendum:

1. Tank 1343 was a 10,000 gallon fuel oil tank which was closed in place. At the time of closure, it is stated in the report that contaminated soil was noted and that no soil was removed nor was a ground water sample obtained at the time of closure. Please submit a copy of the closure documentation.

2. Soil borings obtained during the investigation are inadequate for determining the extent of soil contamination. Utilizing the general instructions (from "Storage Tank System Closure Assessment Requirements." February 1998 - copy enclosed) for sampling requirements for storage tanks abandoned in place, obtain four soil borings around the tank, placed as close to the tank as possible with one of the borings in close proximity to the fill port. If contamination is noted, conduct additional borings as required to sufficiently characterize the extent of contamination. Additionally, because of the contamination noted in the screening for soil boring S-3 and due to the lack of sufficient laboratory analyses, please obtain a soil sample for this location for laboratory analysis as required in Chapter 62-770, F.A.C. Please note that soil analytical samples of soil must be obtained during an assessment. Not less than one is required; more are required if contaminated soil is found. Please follow the guidance in Chapter 62-770 F.A.C and in "Guidelines for Assessment and Source Removal of Petroleum Contaminated Soil, May 1998," a copy of which I am enclosing. Please also note the different analytical requirements in Table I or Table II, depending on the type of contamination at the site; in this particular case, the requirements in Table I apply.

3. Please confirm the disposition of the former product piping. Was it removed or is it still operational? Please obtain one soil boring midway between the end of the tank and Building 1343, along or in close proximity to the piping or its former location. If contamination is noted, obtain additional borings, sufficient to characterize any contamination. Additionally, obtain soil borings along the existing fuel line, the 12" water line and the sanitary sewer line in order to assess the possible migration of contamination along their pathways. If contamination is noted, please obtain additional borings which will sufficiently characterize any possible soil contamination.

4. Please observe the soil sampling requirements in Chapter 62-770, F.A.C when conducting the soil borings.

5. Detection limits for five semivolatile constituents in ground water were above regulated limits. Monitoring well MW-1 exhibited naphthalene contamination. Additionally, TRPH was not determined and lead was present above the Florida standard. Please resample MW-1 for semivolatile constituents, lead and TRPH, ensuring that the detection limits for compounds with regulatory guidelines or standards are low enough to allow the results to be utilized for determining the presence or absence of contamination.

6. If soil contamination is noted in the new soil borings, install a shallow monitoring well in the center of the area of greatest contamination or as close as possible if it cannot be installed in the source area and sample the ground water for volatile and semivolatile petroleum constituents, remembering the caution on detection limits noted in comment 5. Please be aware that if significant soil contamination is found, additional monitoring wells should be installed, sufficient to delineate the extent of ground water contamination.

7. Please submit a properly certified copy of the Assessment Report for Tank Site 1343. Please assure that all future and additional documents in this regard are also properly signed and sealed according to Chapter 62-770.600 (6), F.A.C. In lieu of submitting a complete report, you may submit a properly executed certification page which references the site report and I will insert the page into my copy.

Please present the above requested data in a SAR Addendum. Based on the provisions of Chapter 62-770, F.A.C., please evaluate the data and propose a course of action for the site. If further clarification is required or if you have any questions, please contact me at 850-921-4230.

Sincerely,

James H. Cason, P.G.
Remedial Project Manager

Printed on recycled paper.

CC: Jan Bouvier, NAVSTA Mayport
Brian Cheary, FDEP Northeast District
Jerry Young, City of Jacksonville

Reviewed by:

Timothy J. Bahr, P.G.
Professional Geologist Supervisor
Bureau of Waste Cleanup

TIMOTHY J. BAHR
LICENSE
NO. 1209
STATE OF
FLORIDA
PROFESSIONAL GEOLOGIST

6/5/98
Date

JJC ESN ESN

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