N62661 AR.000274
NAVSTA NEWPORT RI
5090.3a

OPTIONAL FORM 99 (7-90)
FAX TRANSMITTAL # of pages ▶ 6

DEFENSE L
DEFENSE F
CAMI
ALEXANDRIA

To Todd Bober
From R. Marino
Dept/Agency NaDiv Code 18
Phone # 401-841-3735
Fax # 41 443-0535
Fax # 4594

NSN 7540-01-317-7388 5099-101 GENERAL SERVICES ADMINISTRATION

IN REPLY REFER TO DFSC-FQ

29 OCT 1992

State of Rhode Island and Providence Plantations
Department of Environmental Management
Oil Pollution/Underground Storage Tank Program
Attn: Mr. David Sheldon
201 Promenade Street
Providence, RI 02908-5767

Re: Defense Fuel Support Point Melville, RI - Notice of Violation and Order, File No. LS2704

Dear Mr. Sheldon:

In accordance with the terms and conditions of the Notice of Violation and Order, File No. LS2704, issued by your department on 11 September 1992, the Defense Fuel Supply Center has completed repairs, testing, and other related work on Tank No. 70 at the Defense Fuel Support Point Melville, RI. Based on the information furnished below, and in accordance with Rhode Island Underground Storage Facilities Rules, DFSC requests RIDEM approval to return tank 70 to service.

Promet Marine Service Corporation accomplished ultrasonic testing of plate thickness on 10 and 13 July 1992. No reading was less than 90 percent of the original plate thickness. Promet concluded the readings were satisfactory for the tank's continued use. A copy of the Promet report can be found at enclosure 1. The tank was then shot-blasted to bare metal, the weeps welded and vacuum box tested.

To provide for long lasting interior protection of tank 70, TTES, Inc. applied a two-component, polyamide epoxy primer/topcoat to the interior of the tank. The specially formulated components provide for a high-build, abrasion, impact, and chemical resistant interior tank coating. A copy of the TTES report is furnished at enclosure 2.

In order to evaluate the impact of the leaking tank on soil and groundwater, DFSC contracted with Groundwater Technology, Inc. (GTI) to perform an initial assessment. GTI drilled seven monitoring wells in the vicinity of tank 70. Field screening and laboratory testing for petroleum hydrocarbons and other analytes has been performed on the soil and water samples. The results are presented in the GTI report dated 15 October 1992, titled Progress Report on Initial Assessment Conducted in the Vicinity of Tank 70 Located in Tank Farm Three. Mr. Dave Sheldon of RIDEM has been furnished with a copy of this report. GTI concluded that the source of the petroleum seepage observed during maintenance of Tank 70 on September 8, 1992 is "very limited in area."

11 02 92 11 40 AM P01

GTI further concluded that petroleum seepage 'most likely resulted from a small amount of petroleum contained within the tank foundation area.' The data suggests that there have been minor impacts to soil and groundwater in the area of investigation surrounding tank 70.

After consulting with RIDEM and GTI, DFSP Melville placed approximately two feet of JP-4 in tank 70 on 4 October 1992. The tank and adjacent monitoring wells (GT-301 through GT-307) were gauged regularly to check for leaks. No liquid petroleum was detected in the monitoring wells throughout the measurement period. Similar results were obtained from tank level gauging conducted over a sixteen day period, i.e., all readings were within normal tolerances for hand gauging tanks of this size. A copy of the GTI monitoring well report and the tank gauging data are furnished at enclosures 3 and 4 respectively.

Based on the information presented above, DFSC requests RIDEM approval to return tank 70 to service. Please contact Mr. Thomas Riffe, or Mr. Hasan Dogrul at telephone (703) 274-6579 if you need any further assistance.

4 Encl

W. E. GOODE
Chief, Environmental Division
Directorate of Facilities Management

cc: DFSC-NE
DFSP Melville
NETC

P.O. BOX 14126 EAST PROVIDENCE, RI 02914 · TEL. (401) 467-3730
OFFICE AND TERMINAL 242 ALLENS AVE. PROVIDENCE, RI 02905 TELEX 927 667 · FAX (401) 467-5370

PROMET
MARINE SERVICES CORPORATION
MARINE REPAIR AND DRY BULK
HANDLING FACILITIES

July 14, 1992

Management Engineering
100 Alexander Road
DFSP Melville
Portsmouth, RI 02871

RE: Ultrasonic Readings of tank 70 taken 10&13 of July, 1992

ATTN: Bob Martin, Supertintendent

Dear Mr. Martin:

Ultrasonic readings were taken and recorded on tank #70 Melville Fuel Farm by Promet Marine Services Corporation. The Equipment used to take the readings is:

Ultrasonic thickness gauge
T-Mike
Serial #:200736
FCC ID#: EJG57M T-Mike
Mfg.: Stresstell Corporation
Scotts Valley, California
Calibrated: 10/10/91
Calibration Due: 10/10/92

After evaluating the readings taken by Promet Marine Services Corporation; we have come to the following conclusion. The tank bottom was apparently fabricated from .3125 (5/16") plate and the tank walls from .4375 (7/16") plate. No reading is less than 90% of the original thickness; .2813 for tank bottom and .3938 for tank walls.

We find these readings to be satisfactory for the tank's further use.

Respectfully,
PROMET MARINE SERVICES
CORPORATION

Paul F. Baker, Sr.
General Manager

PFB:bt

Encl 1

Melville Tank Farm
Tank #70
Bottom Readings 1 of 2

Melville Tank Farm
Tank # 70
Bottom Readings 2 of 2

Tank Entrance

#1				#2				#3				#4				#5				#6			
422	431	434		440	421	428		430	437	434		430	432	439		461	435	437		435	440	44	
418	450	434	3FT	440	451	428	3FT	425	428	437	3FT	437	440	418	3FT	436	434	434	3FT	436	439	43	
447	419	420		428	462	450		430	433	432		434	434	435		432	430	435		436	436	47	
#7				#8				#9				#10				#11				#12			
445	453	439		438	417	427		431	437	432		435	432	434		432	437	431		436	437	43	
435	452	433	3FT	440	433	436	3FT	439	436	433	3FT	437	430	436	3FT	438	436	435	3FT	428	430	43	
444	437	447		447	430	440		433	433	434		434	438	429		434	444	440		432	425	43	
#13				#14				#15				#16				#17				#18			
432	440	434		440	446	404		430	432	432		426	437	432		428	435	428		428	437	43	
442	428	430	3FT	440	428	429	3FT	436	431	430	3FT	432	435	438	3FT	434	438	418	3FT	440	439	43	
452	453	435		432	431	431		424	424	438		438	432	431		435	436	437		435	436	43	
	#19				#20				#21				#22				#23				#24		
438	441	442		441	407	439		431	430	439		430	436	431		428	428	436		429	445	43	
439	440	438	3FT	430	431	438	3FT	432	434	438	3FT	432	434	430	3FT	446	430	430	3FT	424	433	43	
444	437	435		435	431	440		431	431	440		427	435	436		442	425	432		430	437	420	
	#25				#26				#27				#28				#29				#30		
444	432	440		425	439	440		437	440	438		440	441	430		440	441	430		425	440	435	
446	430	435	3FT	432	429	434	3FT	440	439	435	3FT	431	437	425	3FT	436	438	438	3FT	442	474	438	
435	437	430		436	425	435		435	438	432		430	438	442		430	442	425		434	432	436	
	#31				#32																		
453	435	432		439	437	441																	
438	436	448	3FT	434	440	438																	
440	432	433		437	432	437																	

Melville Fuel Farm Tank #7
Side wall Readings UOT
All sets of readings 3FT apart

7/13/92

ASBESTOS LEAD PAINT HAZARDOUS WASTE ENVIRONMENTAL SITES

T.T.E.S., INC.

GENERAL CONTRACTING
PROFESSIONAL HAZARD ABATEMENT

174 BELLEVUE AVENUE, SUITES 206 & 306J
NEWPORT, RHODE ISLAND 02840
TEL/FAX 1-401-849-9293

To: Mr. Robert Martin
Management Engineering Associates, Inc.
100 Alexander Rd.
DFSP Melville
Portsmouth, RI 02871

FAX: 401-846-3721

From: T.T.E.S., Inc.

Re: Purchase Order # 12-13034(B)
Painting Tank #70

Date: October 6, 1992

JOB DESCRIPTION: Painting of Tank #70 as per the following:

1. A two component, high solids, polyamide epoxy primer/topcoat formulated to provide a high-build; abrasion, impact and chemical resistant coating was applied.

2. Kolor-Poxy Primer was recommended as a high-build primer for steel and concrete surfaces. A three coat system of No. 3200 was recommended to coat the interior of tanks.

3. The coatings consisted of a primer coat 3 mil. thickness dry, an intermediate coat 3 mil. thickness dry and a finish coat consisting of 3 mil. thickness dry as measured with magnetic gauge. The completed tank coating measured 9.0 to 12.0 mil. in thickness dry as measured by magnetic gauge and was deemed acceptable.

4. All coatings were applied in compliance with 29CFR1910.1001, 29CFR1910.1200 and all other Federal, State and Local laws and regulations throughout the completion of this job.

OPTIONAL FORM 99 (7-90)
FAX TRANSMITTAL
# of pages ▶ 6
To Todd Baber
From R. Marino
Dept./Agency NoDiv Code 18
Phone # 401-841-3735
Fax # AT 443-0555
Fax # 4599
NSN 7540-01-317-7368 5099-101 GENERAL SERVICES ADMINISTRATION

OPTIONAL FORM 99 (7-90)
FAX TRANSMITTAL
# of pages ▶
To Continuation
From R. Marino
Dept./Agency
Phone #
Fax #
Fax #
NSN 7540-01-317-7368 5099-101 GENERAL SERVICES ADMINISTRATION

Encl 2

GROUNDWATER TECHNOLOGY GOVERNMENT SERVICES

Groundwater Technology Government Services, Inc.
3 Edgewater Drive, Suite 102, Norwood, MA 02062
Tel: (617) 769-7602 Fax: (617) 769-5041

October 22, 1992

Refer: 83001-1072
(0201)

Mr. Bob Martin
Terminal Superintendent
Management Engineering Associates
DFSP Melville Terminal
100 Alexander Road
Portsmouth, Rhode Island 02871

Subject: Progress Report - Water Level Measurement
Tank Farm 3, Tank 70 Area
DFSP - Melville Terminal
Portsmouth, Rhode Island

Dear Bob:

This letter provides you with information collected during Groundwater Technology Government Services, Inc.'s (GSI) measurement of depth in water in the monitoring wells at the subject site. Measurement data from September 30, 1992 and October 6, 1992 through October 16, 1992 are included. A copy of the well monitoring forms are attached. Monitoring Well GT-308 was dry throughout the measurement period. No liquid petroleum was detected in the monitoring wells during gauging activities. Well logs for monitoring wells MW-301 to MW-307 were in a Progress Reported dated October 6, 1992. A graph illustrating the fluctuations in the water table is included as Figure 1.

If you have any questions or need additional information, please do not hesitate to contact us at (617) 769-7602.

Sincerely,

GROUNDWATER TECHNOLOGY, INC.

John H. Mitchell
John H. Mitchell
Environmental Scientist

Timothy J. Rac, C.W.D.
Project Geologist

Timothy W. Kemper
Timothy W. Kemper, P.E.
Project Manager

TJP/jhl
DFSP1.1
Attachments
Copy: Mr. Hasan Dogrul, DFSC Environmental
Timothy W. Kemper, Groundwater Technology

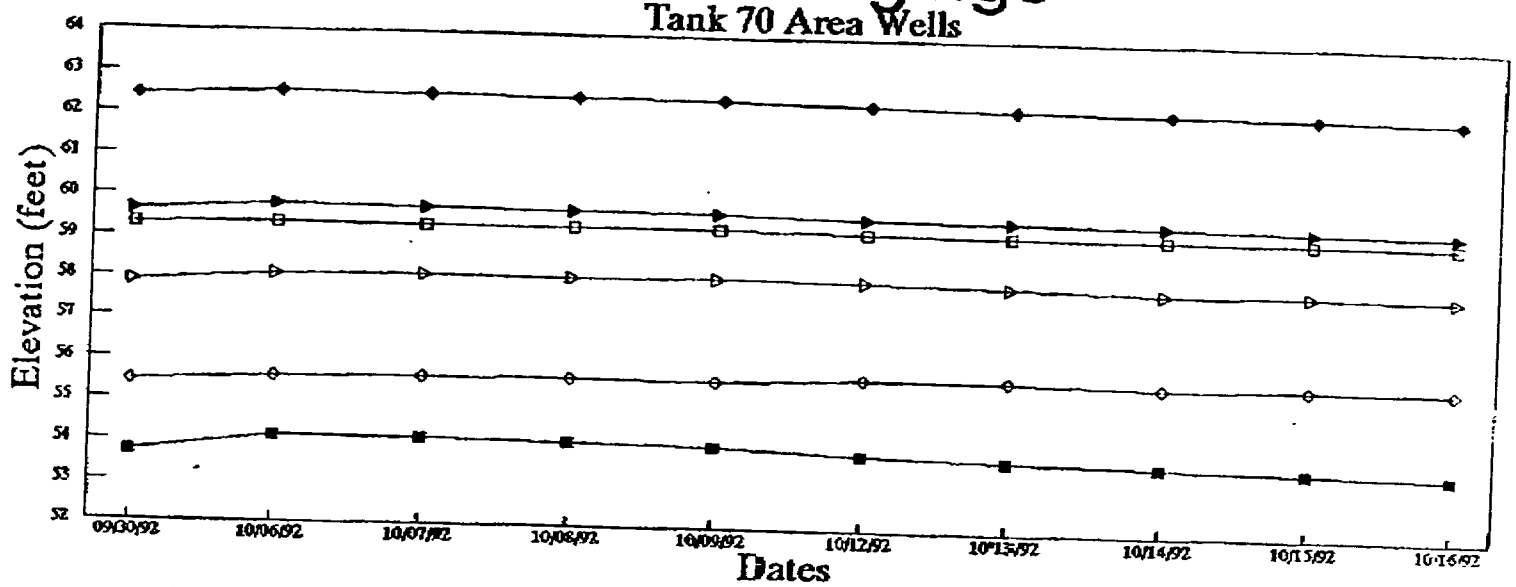
Encl 3

FIGURE 1

DFSP - MELVILLE TERMINAL

Well Gaugings

Tank 70 Area Wells



GT-301 GT-302 GT-303 GT-304 GT-305 GT-307

Well GT-306 was dry to a depth of 20.92 feet on all dates

	09/30/92	10/06/92	10/07/92	10/08/92	10/09/92	10/12/92	10/13/92	10/14/92	10/15/92	10/16/92
GT-301	53.72	54.12	54.10	54.05	54.00	53.85	53.75	53.66	53.60	53.54
GT-302	62.44	62.53	62.51	62.48	62.45	62.37	62.33	62.30	62.27	62.25
GT-303	59.64	59.80	59.77	59.74	59.71	59.63	59.60	59.57	59.54	59.52
GT-304	59.30	59.35	59.34	59.33	59.32	59.29	59.27	59.26	59.25	59.24
GT-305	55.43	55.57	55.58	55.60	55.59	55.68	55.68	55.60	55.64	55.63
GT-306	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
GT-307	57.89	58.09	58.10	58.09	58.10	58.08	58.00	57.94	57.95	57.93

p:\pact\123files\dfsp\dfsfsumm.wk3

GROUNDWATER TECHNOLOGY

GROUNDWATER TECHNOLOGY

WELL MONITORING FORM

Project: DPSP - Melville #A5001-1072
Location: Tank Farm 3
Date: 9-30-92
Operator: C. Leahy
Method: I.P.
Equipment #:

WELL ID	WELL DEPTH (feet)	T.O.C. ELEV. (feet)	DEPTH to WATER (feet)	DEPTH to PETRO (feet)	PETRO THICK (feet)	PETRO GRAV	HYDRO EQUIV (feet)	CORR DTW (feet)	CORR WAT ELEV (feet)
GT-301	25.00	74.89	21.17	NA	NA		NA	21.17	53.72
GT-302	18.89	77.45	15.01	NA	NA		NA	15.01	62.44
GT-303	20.11	77.62	17.98	NA	NA		NA	17.98	59.64
GT-304	19.17	76.72	17.42	NA	NA		NA	17.42	59.30
GT-305	22.65	74.56	19.13	NA	NA		NA	19.13	55.43
GT-306	20.92	64.88	NA	NA	NA		NA	NA	NA
GT-307	19.39	74.32	16.43	NA	NA		NA	16.43	57.89

Comments: Well GT-306 was dry at the time of gauging.

GROUNDWATER TECHNOLOGY

WELL MONITORING FORM

Project: DPSF - Melville 83001-1072
Location: Tank Farm 3
Date: 10-06-92
Operator: W. Holt
Method: I.P.
Equipment #: 2125

WELL ID	WELL DEPTH (feet)	T.O.C. ELEV. (feet)	DEPTH to WATER (feet)	DEPTH to PETRO (feet)	PETRO THICK (feet)	PETRO GRAV	HYDRO EQUIV (feet)	CORR DTW (feet)	CORR WAT ELEV (feet)
GT-301	25.00	74.89	20.77	NA	NA		NA	20.77	54.12
GT-302	16.89	77.45	14.92	NA	NA		NA	14.92	62.53
GT-303	20.11	77.62	17.82	NA	NA		NA	17.82	59.80
GT-304	19.17	76.72	17.37	NA	NA		NA	17.37	59.35
GT-305	22.65	74.56	18.99	NA	NA		NA	18.99	55.57
GT-306	20.92	64.88	NA	NA	NA		NA	NA	NA
GT-307	19.39	74.32	16.23	NA	NA		NA	16.23	58.09

Comments: Well GT-306 was dry.

GROUNDWATER TECHNOLOGY

WELL MONITORING FORM

Project: DFSP - Melville 85001-1072
Location: Tank Farm 3
Date: 10-07-92
Operator: W. Holt
Method: I.P.
Equipment #: 2125

WELL ID	WELL DEPTH (feet)	T.O.C. ELEV. (feet)	DEPTH to WATER (feet)	DEPTH to PETRO (feet)	PETRO THICK (feet)	PETRO GRAV	HYDRO EQUIV (feet)	CORR DTW (feet)	CORR WAT ELEV (feet)
GT-301	25.00	74.87	20.77	NA	NA		NA	20.77	54.10
GT-302	18.89	77.45	14.94	NA	NA		NA	14.94	62.51
GT-303	26.11	77.62	17.85	NA	NA		NA	17.85	59.77
GT-304	19.17	76.72	17.38	NA	NA		NA	17.38	59.34
GT-305	22.65	74.56	18.98	NA	NA		NA	18.98	55.58
GT-306	20.92	64.88	NA	NA	NA		NA	NA	NA
GT-307	19.39	74.32	16.22	NA	NA		NA	16.22	58.10

Comments: Well GT-306 was dry.