ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
(510) 337-9335 (FAX)

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 6560 - 1421 45th Avenue, Oakland, CA
(1-750 gallon gasoline tank removed on February 10, 1998)

July 2, 1999

Ms. Emma Souza
1918 Eveleth Avenue
San Leandro, CA 94577

Dear Ms. Souza:

This letter confirms the completion of site investigation and remedial action for the underground storage tank formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Section 2721(e) of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

cc: Richard Pantages, Chief of Division of Environmental Protection
Chuck Headlee, RWQCB
Dave Deaner, SWRCB
Leroy Griffin, Oakland Fire Department
files-ec (souza-5)

RO#01-2397

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

JUN 29 1999

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: June 9, 1999

Agency name: **Alameda County-HazMat**
City/State/Zip: **Alameda, CA 94502**
Responsible staff person: **Eva Chu**

Address: **1131 Harbor Bay Pkwy**
Phone: **(510) 567-6700**
Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **Residential**
Site facility address: **1421 45th Avenue, Oakland, CA 94601**
RB LUSTIS Case No: **N/A**
Local Case No./LOP Case No.: **6560**
URF filing date:
SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
Emma Souza	1918 Eveleth Ave., San Leandro, CA 94577	510/307-1772

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	750	Gasoline	Removed	2/10/98

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Unknown**
Site characterization complete? **YES**
Date approved by oversight agency: **6/6/99**
Monitoring Wells installed? **Yes** Number: **1 temporary well**
Proper screened interval? **Yes, 5' to 12'bgs**
Highest GW depth below ground surface: **4.66' bgs**
Flow direction: **Assumed to W or SW, based on regional groundwater flow direction.**
Most sensitive current use: **Residential**
Are drinking water wells affected? **No** Aquifer name: **Unknwon**
Is surface water affected? **No** Nearest affected SW name: **NA**
Off-site beneficial use impacts (addresses/locations): **None**
Report(s) on file? **YES** Where is report(s) filed? **Alameda County**
1131 Harbor Bay Pkwy and
Alameda, CA 94502

Oakland Fire Dept
505 14th St, Ste 510
Oakland, CA 94612

ENVIRONMENTAL PROTECTION
99 JUL -1 AM 9:43

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
Tank	**1 UST**	**Disposed by Erickson, in Richmond, CA**	**2/19/98**

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before[1]	After[2]	Before[3]	After[4]
TPH (Gas)	5		11,000	<50
TPH (Diesel)				
Benzene	ND		130	<.5
Toluene	ND		760	<.5
Ethylbenzene	ND		100	<.5
Xylenes	.10		620	<.5
MTBE	ND		<2.5	<2
Other **Pb**	11		1,000	ND

NOTE: 1 soil sample from UST pit at time of tank removal, 2/10/98
2 no overexcavation conducted
3 grab water sample from pit at time of UST removal, 2/98
4 grab water sample from temporary well, 4/99

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? _____
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? _____
Does corrective action protect public health for current land use? **YES**
Site management requirements: **None**
Should corrective action be reviewed if land use changes? **YES**
Monitoring wells Decommissioned: **NA**
Number Decommissioned: **NA** Number Retained:
List enforcement actions taken: **NA**
List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Eva Chu** Title: **Haz Mat Specialist**

Signature: Eva Chu Date: 6/14/99

Reviewed by

Name: **Don Hwang** Title: **Haz Mat Specialist**

Signature: Don Hwang Date: 6/9/99

Name: **Thomas Peacock** Title: **Supervisor**

Signature: Thomas Peacock Date: 6-14-99

VI. RWQCB NOTIFICATION

Date Submitted to RB: 6/15/99 RB Response: concur

RWQCB Staff Name: **Chuck Headlee** Title: **EG**

Signature: Chuck Headlee Date: 6/28/99

VII. ADDITIONAL COMMENTS, DATA, ETC.

In February 1998 a 750-gallon gasoline UST was removed from the property. The tank was located under the sidewalk, in front of the residence. Groundwater was in the pit. After the tank was removed a soil sample was collected at ~4.5'bgs from the southwest corner of the pit. A grab groundwater sample was also collected. The samples were analyzed for TPHg, BTEX, MTBE and total lead. Elevated contaminants were detected in the grab water sample (11,000ppb TPHg, 130ppb benzene, and 1,000ppb total lead). (See Fig 1, 2, and Table 1)

In April 1999 a soil and groundwater investigation was conducted to delineate the extent of contamination in the immediate vicinity of the former UST, as well as to collect soil samples along the product pipeline and beneath the former dispenser. A soil boring was advanced (≅ 7' southwest of the former UST) using direct push technology. A temporary well was constructed using 1" diameter PVC casing and screen. The screened portion of the well was packed with sand to 2' bgs. A bentonite seal was placed above the sand filter pack.

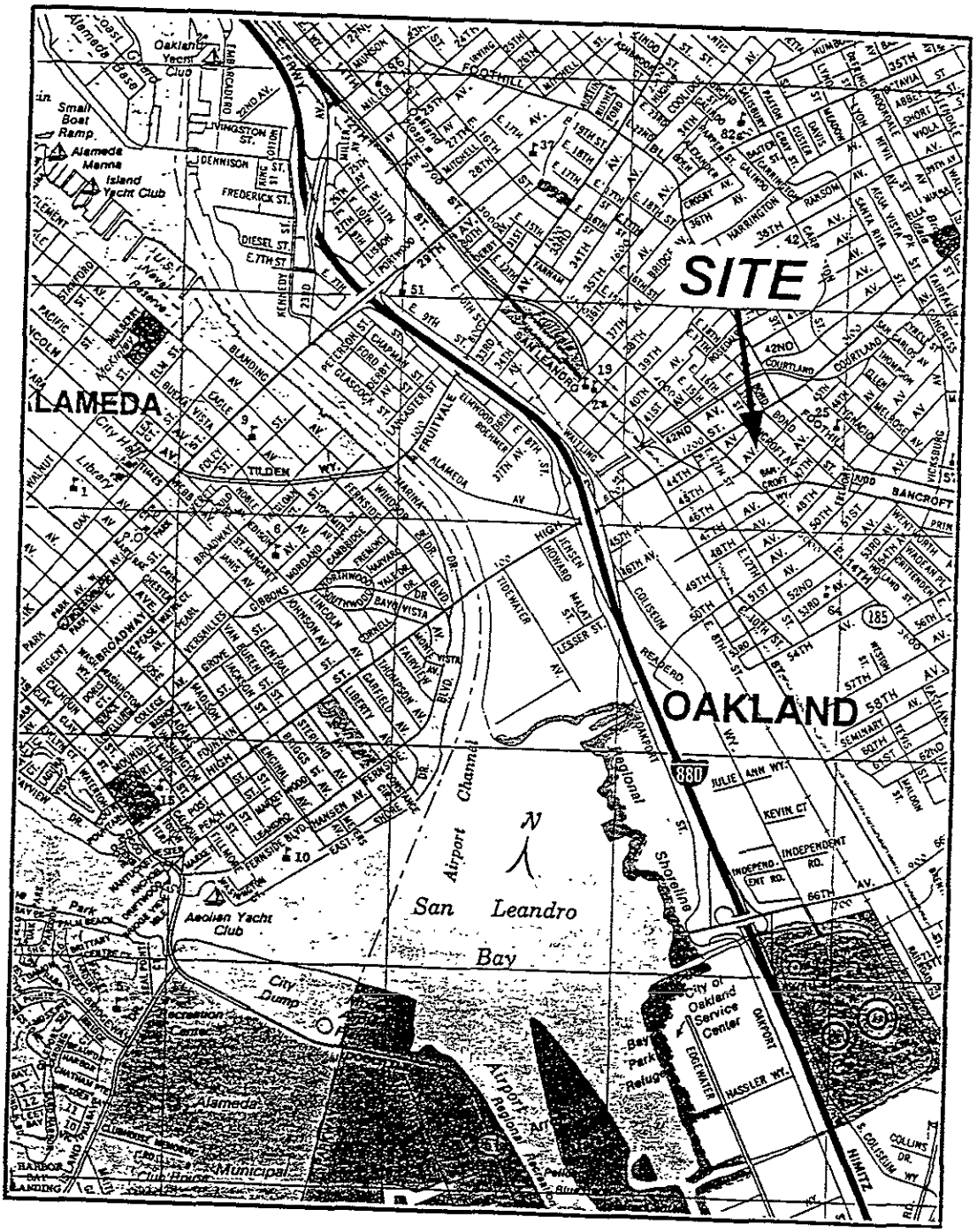
A soil sample was collected from 5'bgs from the borehole. A groundwater sample was collected after the well was developed and purged. Soil samples were also collected along the product piping and beneath the former dispenser. Soil and groundwater analytical results were below laboratory detection limits for TPHg, BTEX, and MTBE. (See Table 2 and 3)

It appears that the fuel release from the former UST did not significantly impact soil or groundwater quality beneath the site. Permanent groundwater monitoring wells are not warranted.

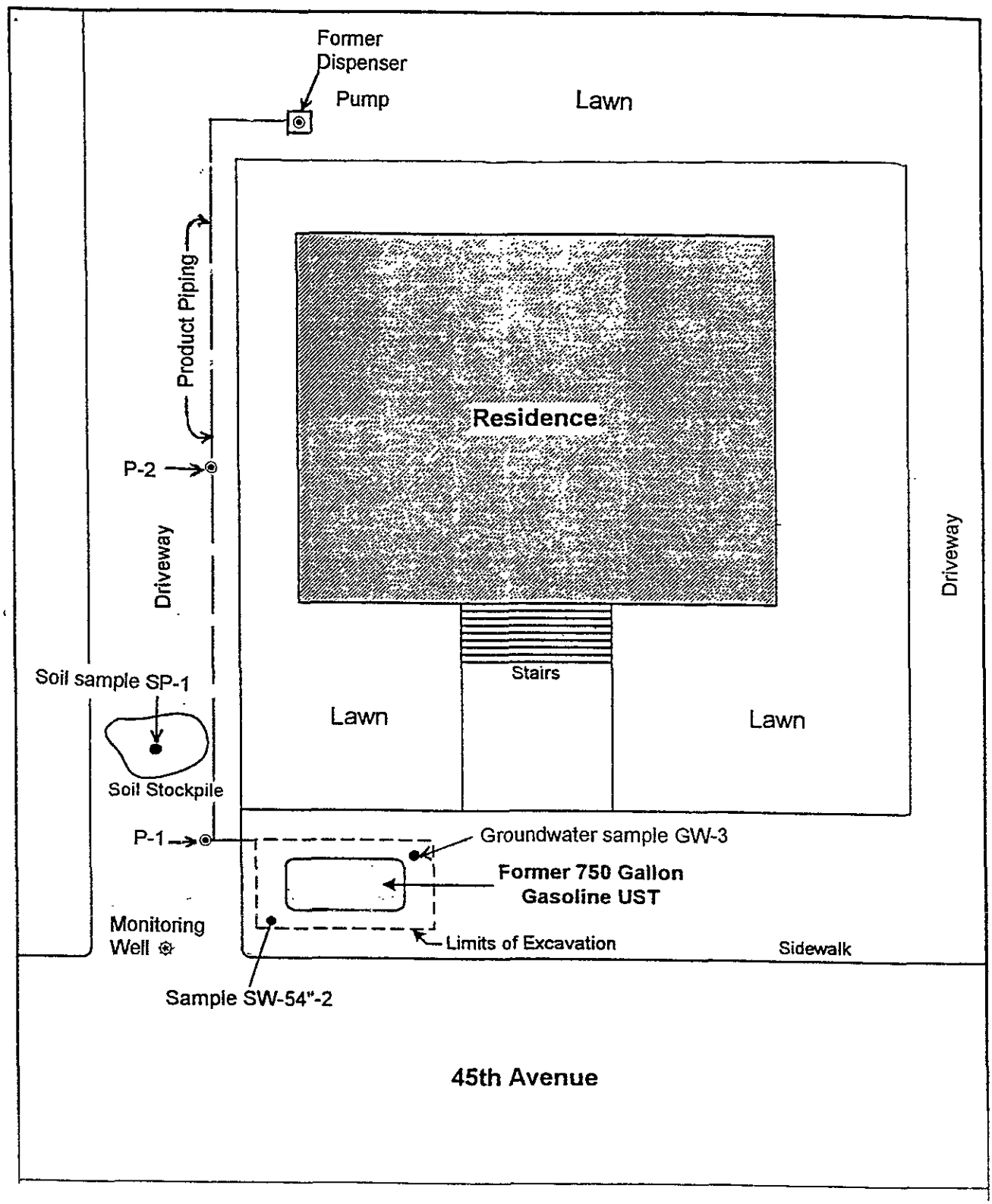
In summary, case closure is recommended because:

- the leak and ongoing sources have been removed;
- the site has been adequately characterized;
- the dissolved hydrocarbon plume is not migrating;
- no preferential pathways exist at the site;
- no water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted; and,
- the site presents no significant risk to human health or the environment.

souza-3



HK2, Inc./SEMCO 70 Chemical Way Redwood City, CA 94063 *Project 97-0348* FN 97-0348 ustrpt F1 DRAWING BAWA02 98	LEGEND N W E S Scale in Miles 0 1/4 1/2	SITE LOCATION MAP 1421 45th Avenue Oakland, California FIGURE 1



SOURCE HK2, INC /SEMCO

ATG INC.
47375 FREMONT BOULEVARD
FREMONT, CA 94538

LEGEND
Soil Samples
Monitoring Well
SCALE IN FEET
0 5 10

SITE PLAN
1421 45TH AVENUE
OAKLAND, CA

FIGURE 2

S:\99999\figure2.dwg 01MAR99 15:46:42

Table 1
Analytical Results of Soil and Groundwater Samples
Collected by HK2, Inc./SEMCO

Sample No.	Matrix	TPH-G	B	T	E	X	MTBE	Lead
SP-1	Soil	ND	ND	ND	ND	10	ND	15000
SW-54"-2	Soil	5000	ND	ND	ND	100	ND	11000
GW-3	Water	11000	130	760	100	620	ND	1000

B= Benzene, T= Toluene, E= Ethylbenzene, X= Xylenes
TPH-G= Total petroleum hydrocarbons as gasoline
MTBE= Methyl-tertiary- butyl ether
ND= Not detected
Concentrations are in parts per billion (ppb)
VOCs= Volatile organic compounds

TABLE 2
Analytical Results of Groundwater Sample Collected by ATG
(Results in microgram per liter or ppb)

Analyte	Sample Result	Reporting limit	EPA test method
Gasoline	<50	50	8015 M
MTBE	<2	2	8021B
Benzene	<0.5	0.5	8021B
Toluene	<0.5	0.5	8021B
Ethylbenzene	<0.5	0.5	8021B
m, p-Xylenes	<0.5	0.5	8021B
o-Xylene	<0.5	0.5	8021B
VOCs	ND	5-20	8260
Lead	ND	3	6010A

Table 3
Analytical Results of Soil Sample Collected by ATG
(Results in micrograms per kilogram or ppb)

Analyte	P1-2.5'	P2-2.5'	Pump 2'	Pump 4'	B1-5' (Well)	EPA test method
Gasoline	<1.2	<1.3	<1.2	<1.2	<1.2	8015 M
MTBE	<24	<27	<24	<24	<23	8021B
Benzene	<6	<6.7	<6	<6 1	<5 8	8021B
Toluene	<6	<6 7	<6	<6 1	<5 8	8021B
Ethylbenzene	<6	<6 7	<6	<6 1	<5.8	8021B
m, p-Xylenes	<6	<6 7	<6	<6 1	<5 8	8021B
o-Xylene	<6	<6.7	<6	<6 1	<5 8	8021B
Lead	4500	6300	6200	5200	3800	6010A

ATG INC.

TEST BORING LOG

BOREHOLE NO: B-1
WELL NO: 1

PROJECT NAME: 1421 45th Ave. Oakland, CA	PROJECT NUMBER: 99999
CLIENT: Mr. Joe Bettancourt	DRILL CONTRACTOR: Fast-Tek
DRILL RIG: Geoprobe	BOREHOLE DIAMETER: 2 inch
SAMPLING METHOD: Direct push, Clear tubes	DEPTH TO WATER: 6 Ft.
START DATE: 4/9/99 9:30 / COMPLETION DATE: 4/9/99 11:50	TOTAL DEPTH: 11.5 Ft.
LOGGED BY: Max Shahbazian	APPROVED BY:
LOCATION: Driveway Sidewalk 6.5Ft. SW of UST	SURFACE ELEVATION:

SOIL CLASS/ GRAPHIC LOG	DESCRIPTION	DEPTH	MODE	RECOVERY	BLOW COUNT ROD	SAMPLE NO.	PID READING (ppm)	REMARKS
Fill	0-6" Concrete slab	1	Direct push	100%		B1-5'	0	Cored Concrete Sidewalk in the driveway 6" thick, 8" Diam.
OH	6"-1.5' top soil, dry	2						
CL	1.5'-3' Clay, grayish brown, damp, fine gravels, Sandy, Stiff, Organic matter.	3						
GC		4						
		5						
		6						Boring is 6-5 Ft from the SW Corner of the former UST excavation.
	3'-5' Clay, blue gray,	7						
		8						
CL	damp, Stiff	9						
		10					0	
GC	5'-10' Gravel, Sandy, clayey, Orange brown, Wet at 6 feet, medium to fine gravel, Quartz rich rounded to angular	11						Monitoring Well Construction: 7 Ft. Screen at the bottom 4.5 Ft. blank pve pipe on the top. Casing & Screen are 1-inch in diameter. Sand pack from the bottom to 2 Ft. below grade Bentonite Seal from 6"-2' below grade. Flush mounted Well vault.
		12						
	10'-11' Silty Clay, light olive brown, moist, Stiff							
	11'-12' Sandy clayey Gravel, Damp, Orange brown, Quartz rich, fine to medium							

F 1001

ATG INC.

TEST BORING LOG

BOREHOLE NO: Pump
WELL NO: _____

PAGE 1 OF 1

PROJECT NAME: 1421 45th Ave. Oakland, CA	PROJECT NUMBER: 99999
CLIENT: Mr. Joe Bettancourt	DRILL CONTRACTOR:
DRILL RIG: Hand Auger	BOREHOLE DIAMETER: 3.5 inch
SAMPLING METHOD: Hand Auger	DEPTH TO WATER:
START DATE: 4/15/99 / COMPLETION DATE: 4/15/99	TOTAL DEPTH: 4 Ft.
LOGGED BY: Max Shahbazian	APPROVED BY:
LOCATION: Former Dispenser Pump in the backyard	SURFACE ELEVATION:

SOIL CLASS / GRAPHIC LOG	DESCRIPTION	DEPTH	MODE	RECOVERY	BLOW COUNT ROD	SAMPLE NO.	PID READING (ppm)	REMARKS
OH	0-2' Top soil, black clay, dry to damp Organic.	1	Hand Auger					
CL		2				Pump-		2'
		3						
		4		100%		Pump-		4'
	2'3' Clay, dark gray, damp, stiff							No gasoline or petroleum Odors.
	3'-4' Clay, light olive brown, damp, silty very stiff							Boring was backfilled with Cuttings

F 1001