## **HEALTH CARE SERVICES**

# AGENCY



DAVID J. KEARS, Agency Director

StID 696

March 4, 1998

Mr. Roger Woodward P.O. Box 2688 Dublin, CA 94568 ENVIRONMENTAL HEALTH SERVICES

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

Re: Fuel Leak Site Case Closure for Corwood Carwash at 6973 Village Parkway, Dublin, CA 94568

Dear Mr. Woodward:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Protection Division is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

#### SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- up to 260 ppm TPH as gasoline and 1.1 ppm benzene remain in soil near the USTs; and,
- three groundwater monitoring wells are still located onsite.

If you have any questions, please contact me at (510) 567-6762.

eva chu

Hazardous Materials Specialist

#### enlosure:

- 1. Case Closure Letter
- 2. Case Closure Summary

c: Dennis Carrington City of Dublin 100 Civic Plaza P.O. Box 2340 Dublin, CA 94568 files (corwood,16) **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 696 - 6973 Village Parkway, Dublin, CA
(2-10,000 gallon gasoline UST lined and cathodically
protected in March -April 1991)

March 4, 1998

Mr. Roger Woodward P.O. Box 2688 Dublin, CA 94568

Dear Mr. Woodward:

This letter confirms the completion of site investigation and remedial action for the underground storage tanks 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 underground storage tanks 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

Kevin Graves, RWQCB Lori Casias, SWRCB

William McCammon, Alameda County Fire, QIC Code 41401

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CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

AGENCY INFORMATION Date: December 10, 1996

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy

City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
Responsible staff person: Eva Chu Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Corwood Carwash

Site facility address: 6973 Village Pkwy, Dublin, CA 94568

RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 696 KB LUSTIS Case No: N/A Local Case No./I URF filing date: 7/13/92 SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:

Roger Woodward P.O. Box 2688, Dublin, CA 94568

Closed in-place Tank Size in Contents: Date: or removed?: No: <u>gal.:</u> Gasoline UST lined & cathodic protected Gasoline in March-April 1991. 1 10,000 2 10,000

#### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown Site characterization complete? YES

Date approved by oversight agency: 9/26/96

Monitoring Wells installed? Yes Number:

Proper screened interval? Yes, 5' to 24' bgs

Highest GW depth below ground surface: 7.14' Lowest depth: 7.50' in MW-2

Flow direction: SSE

Most sensitive current use: Commercial

Are drinking water wells affected? No Aquifer name: Dublin Subbasin 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 Alameda, CA 94502

### Treatment and Disposal of Affected Material:

<u>Material</u>	Amount	Action (Treatment	<u>Date</u>
	(include units)	or Disposal w/destination)	

Tank

2 USTs were lined and cathodic protection provided in March-April 1991

Maximum Documented Contaminant	Contaminant Concentrations Soil (ppm) Before After	Before Water ( Before <sup>2</sup>	ppb)
TPH (Gas)	530 530	3,000	240
TPH (Diesel)	800 800	ND	330
Benzene	1.8 1.8	1,200	0.6
Toluene	22 22	170	ND
Ethylbenzene	16 16	140	ND
Xylenes	88 88	380	ND

Heavy metals Other

NOTE: 1 from four soil borings advanced around UST complex, 4/91

2 grab groundwater samples from borings advanced in 4/91

3 groundwater from monitoring wells sampled in 10/95

### Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

#### IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined

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: No, pending site closure

Number Decommissioned: 0 Number Retained: 3

List enforcement actions taken: None

List enforcement actions rescinded: NA

### V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu

Title: Haz Mat Specialist

Signature: Warlan

Date: 1/21/97

Reviewed by

Name: Susan Hugo

Title: Sr. Haz Mat Specialist

Signature: Susm & Shugp

Date: /2/20/96

Name: Thomas Peacock

Title: Supervisor

Signature: May Jacoz

Date: 1-17-97

VI. RWQCB NOTIFICATION

Date Submitted to RB: 1/22/57

RB Response: Affrond

RWQCB Staff Name: Kevin Graves

Title: AWRCE

Signature:

Date: 1-27-97

VII. ADDITIONAL COMMENTS, DATA, ETC.

Corwood Carwash is a full service car wash and retails unleaded gasoline. The site has two 10K gallon gasoline USTs. In March and April 1991 the old fuel dispensers and underground piping were removed and replaced with new dispensers and double-walled fiberglass piping. Gold Coast Technologies Inc supervised interior lining and cathodic protection for the two USTs.

A subsurface investigation was also conducted around the tank cluster at this time. Four investigative soil borings (BA through BD) were drilled to 15' or 20' bgs and soil samples were collected at 5' intervals. "Grab" groundwater samples were also collected from each borehole. Up to 530 ppm TPHg, 800 ppm TPHd, and 1.8, 22, 16, and 88 ppm BTEX, respectively, were identified in soil from 5' to 10' bgs. Groundwater was encountered at ~15' bgs. Up to 3,000 ppb TPHg and 1,200, 170, 140, and 380 ppb BTEX, respectively, were detected. TPHd was not identified in groundwater. (See Fig 1, Tables 1 and 2)

In June 1993 three monitoring wells (MW-1 through MW-3) were installed. Soil samples were collected from 5.5' to 10.5' bgs in each boring. Up to 1,100 ppm TPHd, 170 ppm TPHg, and 1.0, 0.17, 0.27, and 1.0 ppm BTEX, respectively, were identified in soil from boring MW-3 at 5.5' bgs. (See Fig 2, Table 3)

Groundwater has been sampled twice (6/93 and 10/95). Low to non-detectable levels of TPHd, TPHg, and BTEX were detected. (See Table 4). This is

substantially lower than the grab groundwater samples collected from the soil borings in April 1991. Natural bioattenuation should continue to degrade residual hydrocarbons in soil and groundwater. The fuel release has not significantly impacted groundwater quality. Continued sampling is not warranted.

In summary, case closure is recommended because:

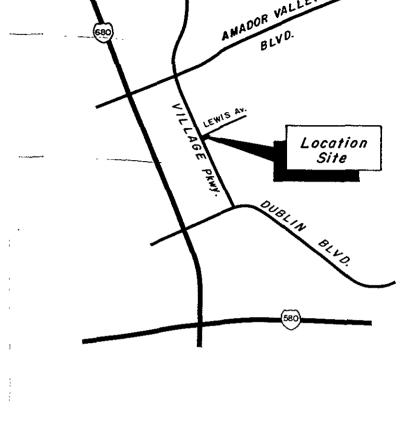
- the leak and ongoing sources have been removed;
- the site has been adequately characterized;
- the dissolved plume is not migrating;

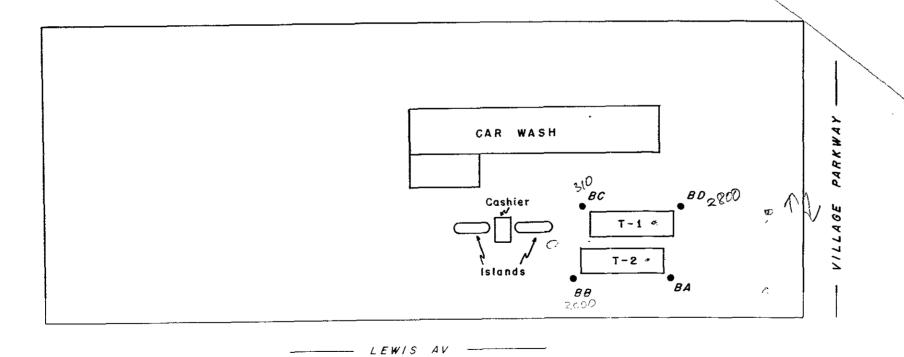
plume migration is limited since clay sediments were encountered from below concrete and sand fill material to 25' bgs (See Boring logs)

- no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- the site presents no significant risk to human health or the environment.

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Boring	Depth
BA	20'
88	15'
BC	20'
BD	- /5'





TECHNOLOGIES T

CORWOOD CAR WASH
6973 Village Pkwy.
Dublin, CA.

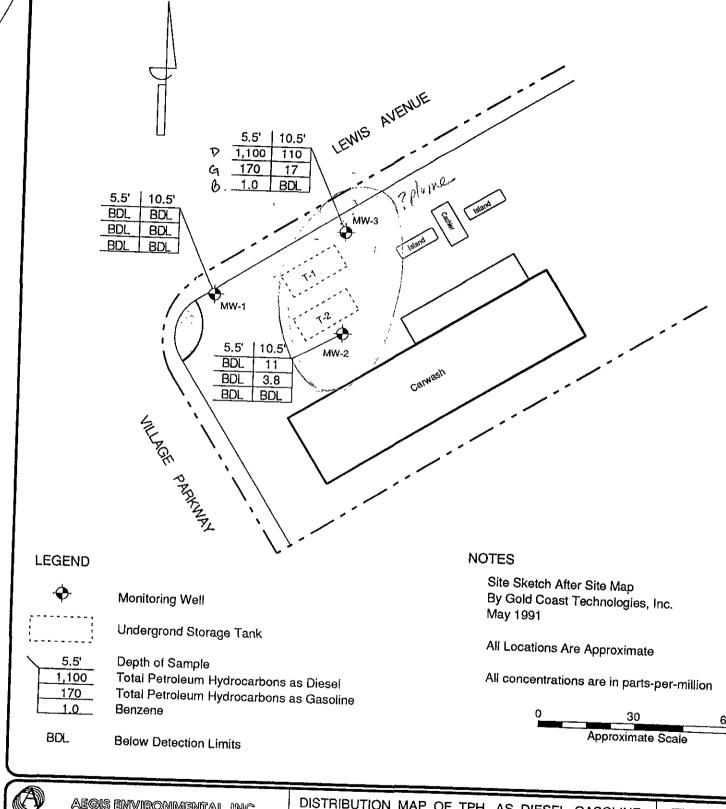
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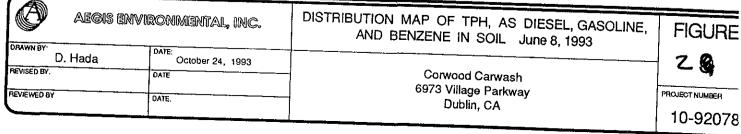
LOCATION WAP NO SCALE

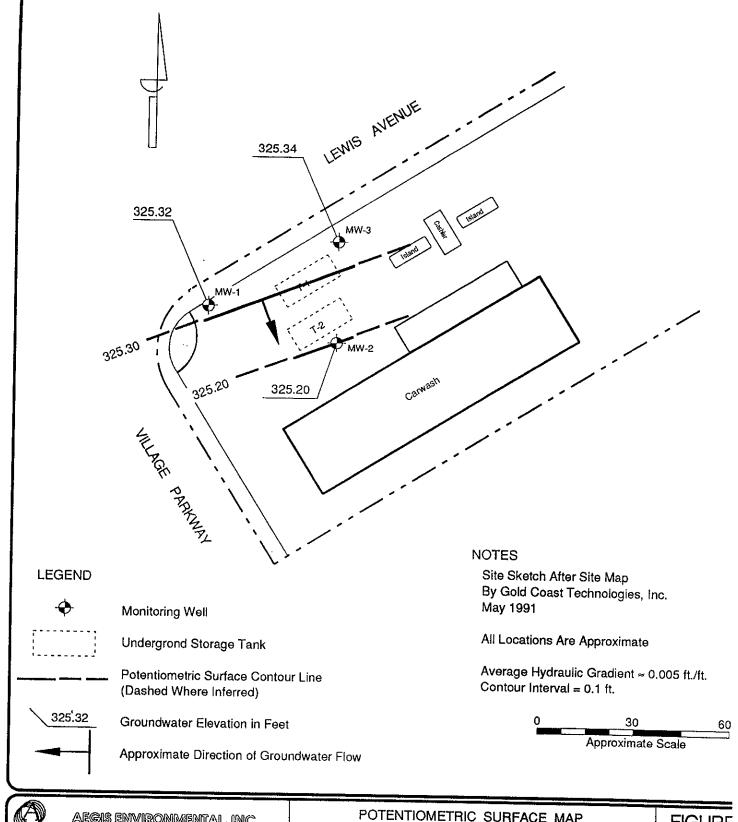
10' 0 10 20' 30' 40' 50' FEET FEET

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AEGIS E	nvironmental, inc.	POTENTIOMETRIC SURFACE MAP June 9, 1993	FIGURE
D. Hada REVISED BY	October 24, 1993 DATE:	Corwood Carwash	3 4
REVIEWED BY:	DATE:	6973 Village Parkway Dublin, CA	рясивст мимвел. 10-9207{

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Table 1	Soil	Laboratory	Analysis	Summary	mg/kg
			-		g/ 1.g

						(ppm)	
Sample #	TPH-G	В	T	Х	E	Pb	TPH-D
BA-5	ND	ND	ND	ND	ND	5.1	ND
BA-10	.6	ИD	ND	ND	ND	6.4	13
BA-15	ND	ND	NĐ	ND	- ND	4.3	ND
BA-20-	ND	-ND	ND	. ND	ИĎ	7.2	ND
BB-5	260)	1.1	ИД	.78	5.1	11	800
BB-10	1.4	ЙD	ND	.012	.007	11.7	26
BB=15 ····	ND	ND	ND	ND	ND	4.7	, ND ,
BC-5	83	(.73)	ND	ND	2.6	4.4	410)
BC-10	ND	ND	ND	ND	.006	7.0	ND
BC-15	<b>И</b> D· ··· -·	ŊD	ND-	ND	ND	5,0	ND .
BC-20	ND	ND	ND	ND	ДИ	10.1	ND
BD-5	ND	.012	ND	ND	ND	3.9	ND
BD-10 1/8	530	(1.8)	22	88	16	5.6	65
BD-15	ND-	_ND	-ND	ND	ND		ND

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10, - 50)

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ug/L	(	<u></u>	

Sample #	TPH-G	В	Т	х	Е	Pb	TPH-D
BA-15	ИĎ	1.6	ND	ND	1.1	13 *	ND *
BB-15	3000	1200	22	45	81	10 *	ND *
BC-20	310	24	ND	36	13	ND *	ND *
BD-15	2800	490	170	380	140	11 *	ND *

\* The samples were taken from Coast To Coast analytical only.

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## V. Recommendations:

The recommendations for this site are limited to the four (4) borings and samples taken surrounding the tank cluster.

- o There exists some gasoline and diesel levels in the soil, mostly at the five foot level with some extending to the ten foot level. However, these levels are non-detectable below ten feet. Study of these borings do not indicate that the areas assessed for this report are effecting ground water quality.
- of each of the contaminants tested for in BB-15 H2O and BD-15 H2O. The reporting limits for this area, as given by the Regional Board for the Alameda County District, are 50 ppb for gasoline and diesel and .5 ppb for BTEX. Some of the levels are above the reporting limits, but the source of these constituents remains unanswered. Further investigation of the background levels normally found in the area and of other potential sources in the vicinity is warranted.
- o If further sampling is required for this site, the auger should be replaced or steam cleaned at five foot intervals, and a water well must be properly developed prior to water sampling.

## TABLE •3

### ANALYTICAL RESULTS: SOIL

### CORWOOD CARWASH 6973 VILLAGE PARKWAY, DUBLIN, CALIFORNIA JUNE 8, 1993

(All results in parts-per-million)

Sample Name	Sample Depth	I	etroleum carbons		Aromatic Volatile Organics					
	(feet)	Diesel	Gasoline	Benzene	Toluene	Ethyl- benzene	Total Xylenes			
MW1-5.5	5.5	<	<	<	<	<	<	3.1		
MW1-10.5	10.5	<	<	<	<	<	<	2.5		
MW2-5.5	5.5	<	<	<	<	<	<	<<2.5		
MW2-10.5	10.5	11	3.8	<<0.05	<<0.05	<<0.05	<<0.05	<<2.5		
MW3-5.5	5.5	1,100	170	1.0	0.17	0.27	1.0	<<2.5		
MW3-10.5	10.5	110	17	<<0.05	<<0.05	0.07	0.12	4.1		

NOTE:

- = Below Practical Quantitation Reporting Limits (PQL) per "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" (August 10, 1990). (PQL for BTEX = 0.005 ppm, TPH, as gasoline = 1.0 ppm, and TPH, as diesel = 5.0).
- = Below indicated detection limit.

Alameda County Environmental Health Services February 5, 1996 Page 2

■ After purging parameters had stabilized, ground water was poured directly from the bailer into two 40-ml VOA vials and one one liter amber jar. Each container was then tightly sealed with teflon lined septum, making sure that no air bubbles were present in the container. Each container was then labeled and placed in cold storage for transport to the analytical laboratory under formal chain-of-custody.

## RESULTS OF QUARTERLY MONITORING

### **Hydrologic Conditions**

Water depths were measured to the nearest 0.01 foot by Century West Engineering prior to purging. Calculated ground water flow gradient, which is shown on Figure 2, was to the south-southeast at approximately 0.007 vertical feet/horizontal foot. Purged water from MW-2 exhibited slight hydrocarbon odors and no visible hydrocarbon sheen. Purged water from MW-1 and MW-3 exhibited no hydrocarbon odors or hydrocarbon sheens.

### Laboratory Analytical Results

Ground water samples from MW-1, MW-2, and MW-3 were analyzed for total petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene and xylenes (BTEX); and total petroleum hydrocarbons as diesel (TPH-D). Table 1 summarizes these analytical results. Laboratory data reports and chain-of-custody records are contained in Appendix B.

Table 4											
	SUMMARY OF GROUND WATER ANALYTICAL RESULTS  Corwood Car Wash UST Site										
Well Number	Sample Dute	Ground Water Elevation	PPH-D	TPH-G	<b>1</b>	Concentration (p	om) E	¥			
MW-1	06/09/93	325.32	ND(.100) <sup>2</sup>	ND(0.05)	ND(.0005)	ND(.0005)	ND(.0005)	ND(.0005)			
	10/23/95	325.09	ND(0.05)	ND(0.05)	ND(.0005)	ND(.0005)	ND(.0005)	ND(.0005)			
MW-2	06/09/93	325.20	0.640	0.110	0.013	ND(.0005)	ND(.0005)	ND(.0005)			
	10/23/95	324.84	0.33 <sup>3</sup>	0.24 <sup>4</sup>	ND(.0005)	ND(.0005)	ND(.0005)	ND(.0005)			
MW-3	06/09/93	325.34	ND(.100)	ND(0.05)	0.0005	ND(.0005)	0.0005	ND(.0005)			
	10/23/95	325.01	0.17 <sup>3</sup>	0.06	0.0006	ND(.0005)	ND(.0005)	ND(.0005)			



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PAGE #1 OF 1 CUSTOMER CORWOOD DATE 4-1-91 811 DIAMETER OF BORING WATER AT 15 LOGGED BY D.R. WELL # BA TLV DEPTH BLOW SAMPLE U I SOIL LAB COUNT S  $\mathbf{T}$ DESCRIPTION FEET # RESULTS READING C H PPMTPHppm 0 S-0. Concrete cover. Fine tan sands. Dk grey clay w/ fine tan silty sands inter 5′ ND 0 3,5,6 A-5 OL mixed. 0 10' 2,4,4 A-10  $oldsymbol{L}$ Dk grey moist clay w . 6 no fines. No odors. Dk grey clay. Increas A-15 ND 0 15' 3,3,6 MH moisture. No fines. No odors. CH 20' A-20 Lighter grey, very ND 0 3,5,6 moist. No fines. Water sample, no shee no odors. A-H20 ND

COMMENTS:

CUSTOMER CORWOOD DATE 4-1-91 PAGE #1 OF 1 LOGGED BY D.R. DIAMETER OF BORING 8" WATER AT 15 WELL # BB  $\cdot$ L LAB TLV DEPTH BLOW SAMPLE U Ι SOIL RESULTS READING FEET COUNT # S  $\mathbf{T}$ DESCRIPTION TPHppm PPMС Η S--0-0 / Concrete cover. Fine tan sands. 260 0 5′ 2,3,4 B-5 OLDk grey organic clay. 1 1 Slight odor. ı 1.4 0 10' 2,3,4 B-10 OLLighter grey organic clay. Some fines inter ŧ mixed. No odor ND 0 15' B-15  $\mathsf{OL}$ Lt grey clay. Increase moisture. Some fines. 1 1 No odors. 1 1 Water sample, no sheer 3.0 B-H20 no odors.

COMMENTS:

LOGGED BY D.R. DIAMETER OF BORING 8 11 WATER AT 15 WELL # BC TLV LAB DEPTH BLOW SAMPLE U Ι SOIL RESULTS READING FEET COUNT # S  $\mathbf{T}$ DESCRIPTION TPHppm PPMС Η -O-01 Concrete cover. Fine tan sands. 83 0 5 🖊 2,3,4 C-5  $oldsymbol{L}$ Dark grey organic clay. Slight odor. ND 0 10' 3,4,4 C-10 OLLighter grey to brown clay. Some fines inter mixed. No odor. ND 0 15' 3,4,5 C-15 OH Lt grey to brown organic clay. Moist. Some fines. No odor ND 0 20' 3,4,6 C-20 OH Lt grey to brown clay. Wet sample, no odor. Water sample, no sheer .3 C-H2O no odors.

DATE

4-1-91

PAGE #1 OF 1

COMMENTS:

CUSTOMER

CORWOOD

CUSTOMER	CORWOOL	)		DATE	4-	1-91	PAGE #1 OF 1
LOGGED BY	D.R.		DIAMET	ER OF BOR	ING	811	WATER AT 15
WELL # BI	D					_	
LAB RESULTS TPHppm	TLV READING PPM	DEPTH FEET	BLOW	SAMPLE #	U S C S	I T H	SOIL DESCRIPTION
		0'					Concrete cover. Fine tan sands.
ND	О	5′	3,4,6	D-5	OL		Fine tan sands to dk grey organic clay. No odors.
530	50	10'	3,5,5	D-10	OL		Dark grey organic clay. Some fines intemixed. Slight odor.
ND	0	15'		D-15	СН		Lt grey to brown in- organic clay. Moist. No odors.
2.8				D-H2O			Water sample, no sheem no odors.
i							

COMMENTS: