1365 VANDER WAY



TO: _	The Plymouth Group	DATE:July 25, 1990
_	1616 N. Shoreline Blvd	PROJECT NO.: 4454/2
_	Mountain View, CA 94043	
- ATTENTION:	Laura Rice	
SUBJECT:	Sunnyside Nursery	
	Hayward, California	
We are: _	X Enclosing	Reports
2	Forwarding	Drawings
	Per your request	Specifications
	1 ea Number of copies	Other
Description	1) Status of Stockpiled Back	fill Soil from January 1990 Diesel
Tank Rem	oval, dated July 25, 1990 &	2) Stockpile Soil Sampling, dated March 23
Comments:		
		k is
Sent by: _	X First Class Mail	
	Special Delivery	
-	Other:	
Lester	Evans; Alameda County Health Agend Feldman; California RWQCB Hatayama; California DHS	Lisa Sousa Signature of Sender



July 25, 1990 Project 4454/2

Ms. Pamela Evans Alameda County Health Agency 80 Swan Way, Room 200 Oakland, California 94621

Subject:

Status of Stockpiled Backfill Soil from

January 1990 Diesel Tank Removal

Sunnyside Nursery Hayward, California

Dear Ms. Evans:

Per the July 6, 1990 letter from your agency, we have prepared this letter summarizing the status of the stockpiled soil at the Sunnyside Nursery site in Hayward, California. The subject soil is tank backfill material removed during the January 1990 diesel tank removal work. Our February 26 and March 23, 1990 letter reports describe the work and results of initial characterization testing.

The subject soil was initially spread on a fence-enclosed area of the paved employee parking lot for the Sunnyside Nursery (northeast corner of Laguna Park). During the demolition and site closure work for Laguna Park the soil was moved back across Mohr to Sunnyside's lot at 25048 Mohr Drive (just south of the wholesale flower building).

Two rounds of interim sampling and testing have been performed since the soil has been at 25048 Mohr Avenue; April 18 and July 17, 1990. We understand that the $40\pm$ cubic yard stockpile has lain undisturbed during this time period, with the diesel subject only to natural aeration and degradation processes.

All soil samples were collected a minimum of six inches below the exterior surface of the stockpile in clean, two-inch diameter brass liners. The samples were immediately sealed with foil and taped end caps, labeled and iced. The samples were kept iced or refrigerated from the time of collection to the time of testing. Standard chain-of-custody procedures were followed to document sample collection, handling and analysis requests (see attached records).

Project 4454/2 July 25, 1990

The April 18th evaluation consisted of four discreet samples, composited into one aggregate sample by Anametrix, Inc., a State certified laboratory in San Jose, and analyzed for total petroleum hydrocarbons (TPH) as diesel. The latest evaluation consisted of two discreet samples analyzed by Anametrix for TPH as diesel and the individual fuel constituents - benzene, toluene, ethylbenzene and xylenes (BTEX).

A cumulative summary of the laboratory results for the subject soil is presented in Table 1. The latest results suggest that the TPH levels have declined to near the 100 ppm ceiling for Class III landfill disposal. No detectable BTEX compounds remain. Two additional analyses are planned for the end of August and we are optimistic that they will prove to be the last set needed for landfill acceptance.

If you have any further questions or concerns, please contact us.

Sincerely,

TERRATECH, INC.

E-RH

Eric R. Lautenbach CE 42437

Attachments (Table 1, Chain of Custody Records and Laboratory Reports)

cc: Laura Rice, The Plymouth Group Lester Feldman, California Regional Water Quality Control Board Howard Hatayama, California Department of Health Services Project 4454/2 July 25, 1990

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYSIS RESULTS
FOR STOCKPILE OF DIESEL TANK BACKFILL

Sunnyside Nursery Hayward, California

SAMPLE NUMBER	DATE COLLECTED (1990)	TPH as DIESEL (ppm)	BENZENE (ppm)	TOLUENE (ppm)	ETHYL- BENZENE (ppm)	XYLENES (ppm)
S-6a thru 6d (composite)	2/2	200	< 0.050	< 0.050	< 0.050	< 0.050
S-7a thru 7d (composite)	3/8	160	< 0.005	< 0.005	< 0.005	0.007
S-8a thru 8d (composite)	4/18	220		==		
S-10	7/17	110	< 0.005	< 0.005	< 0.005	< 0.005
S-11	7/17	 87 	< 0.005	< 0.005	< 0.005	< 0.005



CHAIN OF CUSTODY RECORD

P.O. NO. 0468

TURNAROUND: NORMAL

PROJEC	T NUA	IBER:	4	143	54/Z				50	/	/	/	7	7	//	7		
SAMPLEI	RS (si	gnatur) : T.	Me	orin		Humber of		- Jean S.	33/3					//	/	REMARKS	
Station Number	Date 1990	Time	Comp.	Grab	Station	Location	Number of Containers								SAMPLE DEPTH			
5-8a	4/18	0700	\bigvee		DIESEL	SOIL STOCKINE	I BRASS	\bigvee								2		
5-8b	-	0710	Į Į		4		u	V								TR	2/	
5-BC		0120	Λ		ч		0	Λ									WE-	
5-8d	1	0730	1		и		9f	\triangle										
5-9a	4/18	<i>a35</i>			LASOLINE	E SOIL	n		\ /									
59b		0745	1		~		n		V						~	On Page		
5-9c		0755	11		. 1		И		1						9	_	(Co-	
5-91	4	oBos	1		И		r		/									
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Relinquished by(signature): Date / Time Received for Laborator Agency: TERRATECH, INC. Date / Time Received for Laborator Agency: (signature) 1615							entory by:	atory by: Date / Time Remarks/Shipping Information Send reports to: Eric Lauteni 1365 VANDER WAY, SAN JO										

ANAMETRIX INC

Environmental & Analytical Chemistry 1961 Concourse Drive, Suite E, San Jose, CA 95131 (408) 432-8192 • Fax (408) 432-8198

TERRATECH



MAY 0 2 1990

RECFIVED

Eric Lautenbach Terratech, Inc. - San Jose 1365 Vander Way San Jose, CA 95112

May 01, 1990

Anametrix W.O.#: 9004161 Date Received: 04/18/90 Purchase Order#: 0468 Project Number: 4454/2

Dear Mr. Lautenbach:

Your samples have been received for analysis. The REPORT SUMMARY lists your sample identifications and the analytical methods you requested. The following sections are included in this report: RESULTS.

NOTE: Amounts reported are net values, i.e. corrected for method blank contamination.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,

ANAMETRIX, INC.

Terry Cooke TPH Supervisor

TC/dag

REPORT SUMMARY ANAMETRIX, INC. (408) 432-8192

Client Address	: Terratech, Inc San Jose : 1365 Vander Way	Anametrix W.O.#: 9004161 Date Received : 04/18/90
City Attn.	: San Jose, CA 95112 : Eric Lautenbach	Purchase Order#: 0468 Project No. : 4454/2 Date Released : 05/01/90
Anametri	Ducc	Date Date Inst d Method Extract Analyzed I.D.
RESULTS		
9004161-0	01 S-8(A-D)COMP. SOIL 04/18/ 02 S-9(A-D)COMP. SOIL 04/18/	

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4454/2 S-8(A-D)COMP.

Matrix : SOIL Date sampled : 04/18/90

Date anl. TPHg: N/A

Date ext. TPHd: 04/24/90 Date anl. TPHd: 04/26/90 Anametrix I.D.: 9004161-01

:IY Analyst

Supervisor :TC

Date released : 05/01/90
Date ext. TOG : N/A
Date anl. TOG : N/A

CAS #	Compound Name		Reporting Limit (ug/kg)		Amount Found (ug/kg)
	TPH as Diesel		10000		220000

ND -Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following either EPA Method 3510 or 3550.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4454/2 S-9(A-D)COMP.

Matrix : SOIL

Date sampled: 04/18/90 Date anl.TPHg: 04/25/90

Date ext. TPHd: N/A Date anl. TPHd: N/A

Anametrix I.D.: 9004161-02

Analyst :I

Supervisor :TC

Date released : 05/01/90
Date ext. TOG : N/A
Date anl. TOG : N/A

 CAS #	Compound Name]	Reporting Limit (ug/kg)		Amount Found (ug/kg)	
1	TPH as Gasoline	I	1000		ND	

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.



CHAIN OF CUSTODY RECORD

P.O. NO. 8476 TURNAROUND: 48-HOUR

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PROJEC	T NUI	ABER: #	4	45	4/2				2.0	$\overline{/}$	/	$\overline{/}$					
SAMPLE	ERS (si	gnatur	e) : 7	ron	va C. Mori		Number	The s	1 2 0 2 2 2 2 2 2 2 2	54/ 54/	/	//		/	///	REMARKS	
Station Number	Date 1990	Time	Comp.	Grab	Station	Location	Con- tainers	1	8/2	**/	/	//		/			SAMPLE DEPTH
5-10	7/17	PM		X	DIBEL 5011	- STOCKPILE	LINER	X	X						10	K	JEFTIN
5-11	7/17	PM		X	DIESEL SOI	L STOCKPILE	1 LINER	X	X						V		
					·												
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Relinquished by(signature): Date / Time Received by (signature) Company or Agency: Company or Agency:								inqui Dany					Dat	ie / Time 2:40 1-17-90	Received by (s Company or Age ANAMETAL	ncy:	
Relinquished by(signature): Date / Time Received for Labora Company or Agency: TERRATECH, INC.							pratory by:	Date	1	Time	R	emark	s/Sh	Se			ach

ANAMETRIX INC

Environmental & Analytical Chemistry 1961 Concourse Drive, Suite E, San Jose, CA 95131 (408) 432-8192 • Fax (408) 432-8198



Eric Lautenbach Terratech, Inc. - San Jose 1365 Vander Way San Jose, CA 95112

July 20, 1990

Anametrix W.O.#: 9007116 Date Received: 07/17/90 Purchase Order#: 8476

Dear Mr. Lautenbach:

Your samples have been received for analysis. The REPORT SUMMARY lists your sample identifications and the analytical methods you requested. The following sections are included in this report: RESULTS.

NOTE: Amounts reported are net values, i.e. corrected for method blank contamination.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,

Sarah Schoen, Ph.D. Laboratory Manager

SRS/dag

REPORT SUMMARY ANAMETRIX, INC. (408) 432-8192

Client Address	: Terratech, Inc. : 1365 Vander Way	- San Jose	Anametrix W.O.#: 9007116 Date Received : 07/17/90
City Attn.	: San Jose, CA 95: : Eric Lautenbach	112	Purchase Order#: 8476 Project No. : 4454/2 Date Released : 07/20/90
Anametri	x Sample I.D.	Date Matrix Sampled	Date Date Inst Method Extract Analyzed I.D.
RESULTS			1
9007116-0		SOIL 07/17/90 SOIL 07/17/90	

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS ANAMETRIX, INC. (408) 432-8192

Sample I.D.: 4454/2 S-10

Matrix: SOIL

Date sampled: 07/17/90

Date anl.BTEX: 07/19/90

Anametrix I.D.: 9007116-01

Analyst: %

Supervisor: 006

Date released: 07/20/90

Date anl.BTEX: 07/19/90
Date ext.TPHd: 07/17/90
Date ext. TOG: N/A
Date anl.TPHd: 07/18/90
Date anl. TOG: N/A

CAS #	Compound Name	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Diesel	0.005 0.005 0.005 0.005	ND ND ND ND

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following either EPA Method 3510 or 3550.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS ANAMETRIX, INC. (408) 432-8192

Sample I.D.: 4454/2 S-11

Matrix: SOIL

Date sampled: 07/17/90

Date anl.BTEX: 07/19/90

Date ext.TPHd: 07/17/90

Date anl.TPHd: 07/18/90

Date anl.TOG: N/A

Date anl.TOG: N/A

	Compound Name	Reporting	Amount
		Limit	Found
CAS #		(mg/Kg)	(mg/Kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Diesel	0.005 0.005 0.005 0.005 10	ND ND ND ND

- ND Not detected at or above the practical quantitation limit for the method.
- TPHd Total Petroleum Hydrocarbons as diesel is determined by GCFID following either EPA Method 3510 or 3550.
- BTEX Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.





9007116

P.O. NO. <u>8476</u> TURNAROUND: <u>48-110UR</u>

CHAIN OF CUSTODY RECORD

1																			
	PROJEC	T NUM	IBER: 非	4	45	4/2	15			200	/	7	7	/	7	///	/		
	SAMPLE	RS (si	gnatur	e) : 7	ron	ae C. Marin		Number of	Anel	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					/.			REMARKS	
	Station Number	Date 1990	Time	Comp.	Grab	Station	Location	Con- tainers	1	2/2									SAMPLE DEPTH
0	5-10	57-n-f	b		X	DIBEL 5011	- STOCKPILE	I LINETZ	X	X						10	K		
O	5-11	07-17 "[,		X	DIBEL SON	STOCKPILE	I LINER	X	X						7			
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					Received by (sign Company or Agency		1	nquis		A-10		\		1-17-90	Compar	red by (sign with Robin by or Agency	nature):		
	Relinquished by(signature): Date / Time Received for Laborator Company or Agency: TERRATECH, INC. Date / Time Received for Laborator (signature)						ratory by:	Date	. /1	Time	Re	emark:	s/Shi	Sei		on o: Eric	Lautenbach		