

Assessment of adjoining site

ENGEO

INCORPORATED

2401 Crow Canyon Road

Suite 200

San Ramon, CA 94583

(510) 838-1600

Fax (510) 838-7425

LETTER OF TRANSMITTAL

TO: Scott Seery

DATE: November 11, 1997

FROM: Shawn Munger

PROJECT NO.: 4391-F3

SUBJECT: Ray Street Property – Pleasanton

CC:

REMARKS:

Urgent For your review For your information Returning Copies at your request

Scott: At the request of our client, Trumark Companies, we are providing boring logs, laboratory test reports and a site plan for the subject project. Based on our review of the laboratory data, the site soils do not appear to have been impacted as a result of fuel releases at the UNOCAL site. The reported ground water contamination does not appear to pose a potential health risk. Given this information, the property appears suitable for residential development. Trumark would like to know what Alameda County will need to remove the use restrictions contained in the current closure certification.

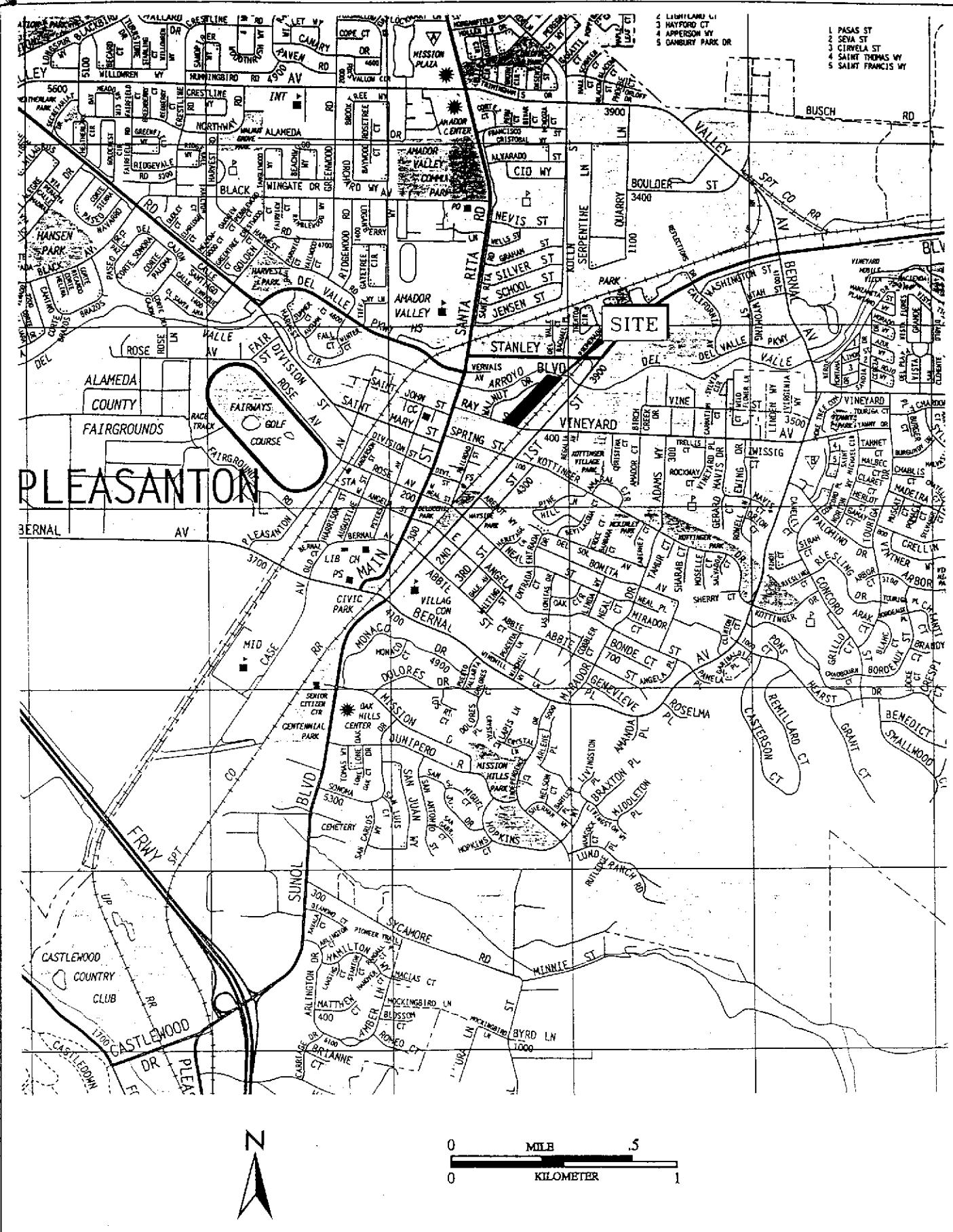
I am available to meet with you, or discuss by telephone. If possible, Trumark would like to have some idea this week if further studies and/or documentation will be required.

Thanks for your help in this matter

Shawn Munger

97 NOV -4 AM 9:31
1810101600

COPYRIGHT © 1997 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



SOURCE: THOMAS BROTHERS

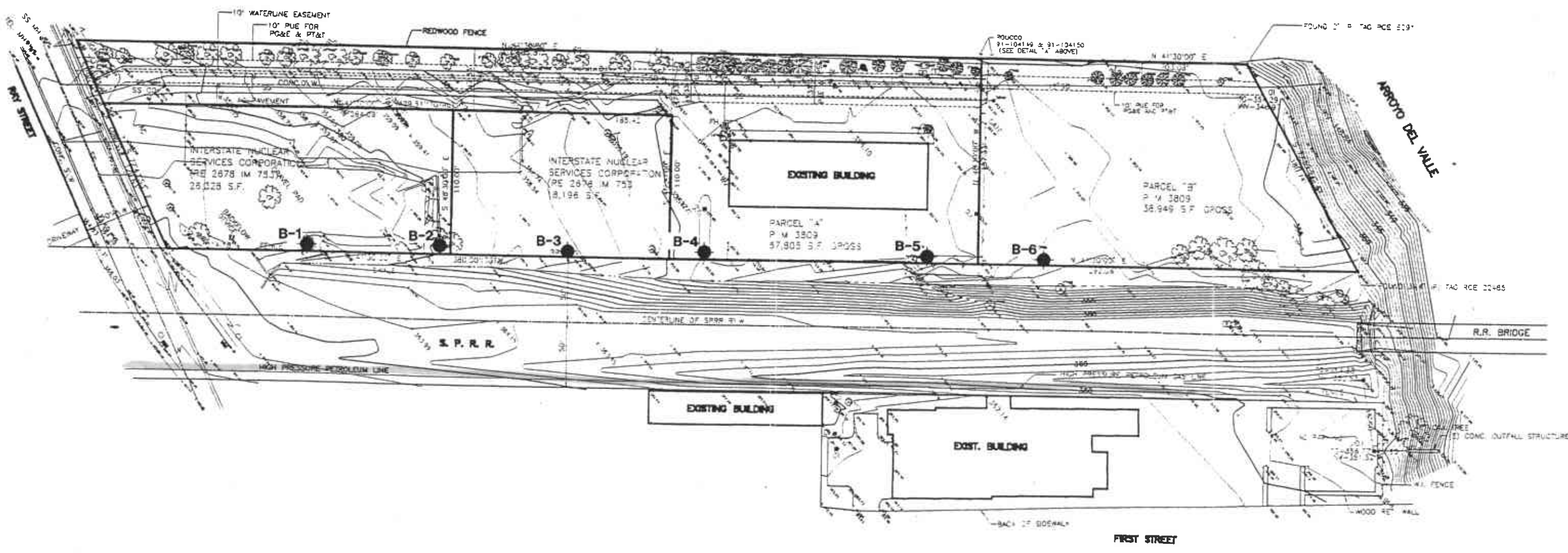


SITE LOCATION PLAN
RAY STREET PROPERTY
PLEASANTON, CALIFORNIA

PROJECT NO.: 4391-F3
 DATE: OCTOBER 1997
 DRAWN BY: [Signature] CHECKED BY: [Signature]

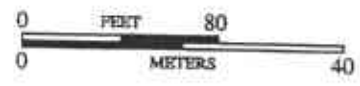
FIGURE NO.
1

COPYRIGHT © 1997 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



EXPLANATION

B-6 ● APPROXIMATE LOCATION OF SOIL BORING



BASE: AL PASCUAL & ASSOCIATES, DATED 11/96

ENGEO
INCORPORATED

SITE PLAN
RAY STREET PROPERTY
PLEASANTON, CALIFORNIA

PROJECT NO.: 4391-F3
DATE: OCTOBER 1997
DRAWN BY: [Signature] CHECKED BY: [Signature]

FIGURE NO.
2

RAY STREET PROPERTY
SOIL/GROUND-WATER SAMPLE
LABORATORY ANALYSIS SUMMARY
(Concentrations reported in parts per million)

SAMPLE	DEPTH (ft)	TPH -G	BENZ	TOL	E.BENZ	XYL	MTBE
1-1	5½	<1.0	<.005	<.005	<.005	<.005	---
1-2	15	<1.0	<.005	<.005	<.005	<.005	---
1-3	25½	<1.0	<.005	<.005	<.005	<.005	---
1-4	35½	<1.0	<.005	<.005	<.005	<.005	---
2-1	5½	<1.0	<.005	<.005	<.005	<.005	---
2-2	15½	<1.0	<.005	<.005	<.005	<.005	---
2-3	25½	<1.0	<.005	<.005	<.005	<.005	---
2-4	35½	<1.0	<.005	<.005	<.005	<.005	---
3-1	5½	<1.0	<.005	<.005	<.005	<.005	---
3-2	15½	<1.0	<.005	<.005	<.005	<.005	---
3-3	25½	<1.0	<.005	<.005	<.005	<.005	---
3-4	35½	<1.0	<.005	<.005	<.005	<.005	---
4-1	5½	<1.0	<.005	<.005	<.005	<.005	---
4-2	15½	<1.0	<.005	<.005	<.005	<.005	---
4-3	25½	<1.0	<.005	<.005	<.005	<.005	---
4-4	36	<1.0	<.005	<.005	<.005	<.005	---
4-6	50½	<1.0	<.005	<.005	<.005	<.005	---
4-7	58½	<1.0	<.005	<.005	<.005	<.005	---
4-8	66½	<1.0	<.005	<.005	<.005	<.005	---
5-1	7	<1.0	<.005	<.005	<.005	<.005	---
5-2	15½	<1.0	<.005	<.005	<.005	<.005	---
5-3	25½	<1.0	<.005	<.005	<.005	<.005	---
5-4	35½	<1.0	<.005	<.005	<.005	<.005	---
5-5	40	<1.0	<.005	<.005	<.005	<.005	---
6-1	5½	<1.0	<.005	<.005	<.005	<.005	---
6-2	15½	<1.0	<.005	<.005	<.005	<.005	---
6-3	25½	<1.0	<.005	<.005	<.005	<.005	---
6-5	36	<1.0	<.005	<.005	<.005	<.005	---
6-6	40	<1.0	<.005	<.005	<.005	<.005	---
W-4	B4 Water Sample	.630	.023	.0015	.0009	.0008	.428
W-5	B5 Water Sample	<.050	<.0005	<.0005	<.0005	<.0005	.007
W-6	B6 Water Sample	.120	<.0005	<.0005	<.0005	.0011	<.005

~ 25'
~ 35'
~ 35'

11/97

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DATE OF BORING: October 6, 1997	N S.P.T. BLOWS/FT	OVM READING P.I.D. (10.0eV)	IN PLACE	
				SURFACE ELEVATION: Approx. 360.0 feet msl (109.7 meters msl)			DRY UNIT WEIGHT (PCF)	MOIST. CONTENT % DRY WEIGHT
DESCRIPTION				*MODIFIED FOR 3" O.D. SAMPLER	(parts per million)			
0				Grayish brown, silty GRAVEL with sand (granite to 1", sub-angular to sub-rounded), damp. (Fill)(GM)	24*	< 1		
				DRAFT				
				No Recovery.	18	< 1		
5		1-1		Brown silty GRAVEL with sand (granite to 1"), gravel subrounded, damp. (Native)(GM)	35*	1.4		
				Dark yellowish brown, silty CLAY with sand, slightly moist. (CL)				
10				Dark yellowish brown, silty CLAY with coarse sand, slightly moist. (CL)	45 25*	< 1		
				Brown very silty CLAY with sand, damp. (CL)		< 1		
				Dark yellowish brown, silty CLAY with sand, slightly moist. (CL)	29	< 1		
15		1-2		Dark brown clayey GRAVEL (to 2/3", subrounded). (GC)				
				Dark yellowish brown clayey SAND, moist. (SC)	21*	< 1		
				Brown clayey SAND with gravel (to 2/3", subrounded). (SC)				
				Yellowish brown SAND with clay and gravel (to 2/3", subrounded). (SP-SC)				
				Yellowish brown CLAY with sand, moist. (CL)				
				Yellowish brown clayey SILT, very moist. (ML)	26	< 1		
				Yellowish brown silty SAND, moist. (SM)				
20				Dark yellowish brown silty CLAY with sand and gravel (1/2", subrounded). (CL)	15			
				Dark yellowish brown clayey SILT, very moist. (ML)		< 1		
				Dark yellowish brown silty fine SAND, very moist. (SM)				
				Brown clayey GRAVEL with sand, slightly moist (granite to 1 1/2", subrounded)(SM)(GC)	54	< 1		
				Dark yellowish brown clayey SAND (fine to medium), very moist. (SC)	57*	< 1		
25		1-3		Dark brown clayey GRAVEL, (to 1", subrounded), moist. (GC)				
						< 1		
				Dark yellowish brown silty SAND layer, moist. (SM)	58	< 1		
					40*	< 1		
30						< 1		

OVM/MET 4391 11/3/97

ENGEO
INCORPORATED

RAY STREET PROPERTY
PLEASANTON, CALIFORNIA

BORING NO.: B-1

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY:

FIGURE
NO.

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DATE OF BORING: October 6, 1997	N S.P.T. BLOWS/FT	OVM READING P.I.D. (10.0eV)	IN PLACE	
				SURFACE ELEVATION: Approx. 360.0 feet msl (109.7 meters msl)			DRY UNIT WEIGHT (PCF)	MOIST. CONTENT % DRY WEIGHT
DESCRIPTION				*MODIFIED FOR 3" O.D. SAMPLER	(parts per million)			
			No recovery.	79				
	-10		Dark yellowish brown clayey GRAVEL (to 2 1/2", subrounded), wet. (GC)	76*	<1			
	-35	1-4	Dark yellowish brown clayey fine to coarse SAND, wet. (SC)		<1			
	-11		Dark yellowish brown clayey GRAVEL (2+", subrounded), very moist. (GC)	44	<1			
	-12			32*	<1			
	-40				<1			
	-13		Dark yellowish brown clayey SAND (fine to coarse grain), very moist. (SC)	51	2.4			
	-14			13*	<1			
	-45	1-5	Dark brown clayey GRAVEL (to 2/3", subrounded), moist. (GC)	79	<1			
	-14		Dark yellowish brown silty CLAY. (CL)					
			Bottom of boring at approximately 45 feet.					
DRAFT								

OVM/MET 4391 11/3/97

ENGEO
INCORPORATED

RAY STREET PROPERTY
PLEASANTON, CALIFORNIA

BORING NO.: B-1

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY

FIGURE
NO.

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DATE OF BORING: October 6, 1997		N S.P.T. BLOWS/FT	OVM READING P.I.D. (10.0eV)	IN PLACE	
				SURFACE ELEVATION: Approx. 360.0 feet msl (109.7 meters msl)				DRY UNIT WEIGHT (PCF)	MOIST. CONTENT % DRY WEIGHT
DESCRIPTION				*MODIFIED FOR 3" O.D. SAMPLER	(parts per million)				
0				Gray silty GRAVEL (to 3/4", subangular), dry. (Fill)(GM)					
				Grayish brown silty SAND with gravel (to 1/2", subangular, subrounded), damp. (SM)	22*	< 1			
					28	< 1			
5		2-1		Dark yellowish brown sandy CLAY, slightly moist. (CL)					
					22*	< 1			
				Yellow brown clayey SAND with gravel (to 2/3", subrounded), damp. (SC)		< 1			
10				DRAFT					
					75	< 1			
15		2-2		Dark yellowish brown clayey GRAVEL (to 1 1/2", subrounded), slightly moist. (GC)					
					8*	< 1			
				Dark brown clayey SAND with gravel (to 1/2", subrounded), slightly moist. (SC)		< 1			
					70	< 1			
20				Dark yellowish brown clayey SAND, moist. (SC)					
					25*	< 1			
				Dark yellowish brown silty fine SAND, very moist. (SM)					
					20	< 1			
				Dark yellowish brown fine sandy SILT. (ML)					
25		2-3		Dark yellowish brown, silty fine SAND. (SM)					
					45*	< 1			
				Dark yellowish brown silty CLAY with gravel (to 3/4", subrounded). (CL)		< 1			
					106	< 1			
30				Dark brown clayey GRAVEL (to 1 1/2", subrounded), moist. (GC)					

OVM/MET 4391 11/3/97

ENGEO
INCORPORATED

RAY STREET PROPERTY
PLEASANTON, CALIFORNIA

BORING NO.: B-2
DATE: November 1997
PROJECT NO.: 4391-F3

CHECKED BY

FIGURE NO.

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DATE OF BORING: October 6, 1997		N S.P.T. BLOWS/FT	OVM READING P.I.D. (10.0eV)	IN PLACE	
				SURFACE ELEVATION: Approx. 360.0 feet msl (109.7 meters msl)				DRY UNIT WEIGHT (PCF)	MOIST. CONTENT % DRY WEIGHT
DESCRIPTION				*MODIFIED FOR 3" O.D. SAMPLER	(parts per million)				
				Mottled dark yellowish brown/gray clayey SILT, very moist, locally strong, iron staining. (ML-CL)	29*	< 1			
				Mottled darkish yellow brown/gray silty CLAY, very moist, iron staining. (CL)	53	< 1			
		2-4		Mottled darkish yellow brown/gray clayey SILT, very moist, iron staining. (ML-CL)	25*				
		2-5		Dark yellowish brown silty fine SAND. (SM)	40				
				Bottom of boring at approximately 40 feet.					
DRAFT									

OYMMET 4391 11/3/97

ENGEO
INCORPORATED

RAY STREET PROPERTY
PLEASANTON, CALIFORNIA

BORING NO.: B-2

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY

FIGURE
NO.

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DATE OF BORING: October 8, 1997	N S.P.T. BLOWS/FT	OVM READING P.I.D. (10.0eV)	IN PLACE	
				SURFACE ELEVATION: Approx. 358.0 feet msl (109.1 meters msl)			DRY UNIT WEIGHT (PCF)	MOIST. CONTENT % DRY WEIGHT
				DESCRIPTION	*MODIFIED FOR 3" O.D. SAMPLER	(parts per million)		
0				Dark grayish brown silty SAND with gravel (to 2 1/4", subangular to subrounded), dry. (Fill) (SM)	19*	<1		
-1				Dark grayish brown silty SAND becoming clayey with gravel including asphaltics, damp. (Fill) (SM-SC)	21	<1		
5		3-1		Brown silty SAND with gravel (to 2/3", subrounded), damp. (SM)				
-2				DRAFT	15*	<1		
					19	<1		
10				Dark gray/brown clayey SAND with gravel, moist. (SC)				
					22*	1.0		
				Dark yellowish brown GRAVEL clay and sand (to 2/3", subrounded), moist. (CL)				
4				Dark yellowish brown clayey GRAVEL with sand. (GC)	44	<1		
15		3-2		Dark brown clayey fine and medium SAND, very moist. (SC)				
-5				Mottled yellowish brown/dark grayish brown clayey medium to coarse SAND, moist. (SC)	31*			
				Dark gray/brown clayey SAND, moist, moderate iron staining common. (SC)	38			
20				Dark yellowish brown clayey SAND with gravel (to 2/3", subrounded), moist. (SC)				
				Dark yellowish brown clayey fine to medium SAND, very moist. (SC)	36*	<1		
-7				Dark yellowish brown CLAY with incremental fine to medium sand, very moist. (CL)	20	<1		
25		3-3		Dark yellowish brown sandy CLAY, very moist. (CL)				
-8				Mottled dark yellowish brown/gray silty clayey fine to medium SAND, wet. (SC)	14*	<1		
				Dark yellowish brown clayey GRAVEL (to 1", subrounded) with sand, very moist. (GC)	45	<1		
30				Dark yellowish brown clayey fine SAND, wet. (SC)				

OVM/MET 4391 11/3/97

ENGE
INCORPORATED

RAY STREET PROPERTY
PLEASANTON, CALIFORNIA

BORING NO.: B-3

FIGURE NO.

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY:

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DATE OF BORING: October 7, 1997	N S.P.T. BLOWS/FT	OVM READING P.I.D. (10.0eV)	IN PLACE	
				SURFACE ELEVATION: Approx. 355.0 feet msl (108.2 meters msl)			DRY UNIT WEIGHT (PCF)	MOIST. CONTENT % DRY WEIGHT
DESCRIPTION				*MODIFIED FOR 3" O.D. SAMPLER	(parts per million)			
0			CONCRETE.					
			Gray AGGREGATE.					
			Dark yellowish brown silty clayey SAND (fine to coarse), with gravel (fine gravels are subrounded), slightly moist. (SC)	7*	< 1			
			Dark grayish brown fine sandy SILT, slightly moist. (ML)					
-1								
		4-1	Very dark grayish brown fine sandy SILT, moist. (ML)					
			Very dark gray/brown silty fine SAND, moist. (SM)	5*	< 1			
-2								
			Dark brown clayey GRAVEL (to 1", subrounded), moist. (GC)	3				
-3								
			Very dark grey/brown clayey SILT with fine sand, moist. (ML)					
-10								
			Dark yellowish brown clayey SAND (fine to medium grain), moist. (SC)	28*	< 1			
-4				46	< 1			
-15		4-2						
				26*	< 1			
-5								
				40	< 1			
-20								
			Dark yellowish brown clayey fine SAND with trace gravel (to 1/2", subrounded), very moist. (SC)	18*	< 1			
-7				21	1.0			
-25		4-3						
			Dark yellowish brown silty fine to medium SAND, wet. (SM)	9*	< 1			
-8								
			Dark grayish brown clayey fine SAND, wet. (SC)	15	1.5			
-9								
			Dark yellowish brown clayey fine SAND, very moist. (SC)					
-30								

DRAFT

OVM/MEET 4391 11/3/97

ENGEO
INCORPORATED

RAY STREET PROPERTY
PLEASANTON, CALIFORNIA

BORING NO.: B-4
DATE: November 1997
PROJECT NO.: 4391-F3

FIGURE NO.

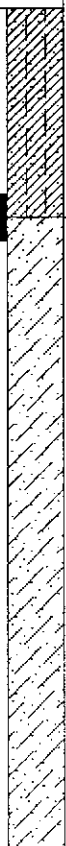

CHECKED BY

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DATE OF BORING: October 7, 1997	N S.P.T. BLOWS/FT	OVM READING P.I.D. (10.0eV)	IN PLACE	
				SURFACE ELEVATION: Approx. 355.0 feet msl (108.2 meters msl)			DRY UNIT WEIGHT (PCF)	MOIST. CONTENT % DRY WEIGHT
DESCRIPTION				*MODIFIED FOR 3" O.D. SAMPLER	(parts per million)			
				Dark grayish brown silty fine SAND, wet. (SM)	10*	<1		
	10			Dark grayish brown silty GRAVEL (to 1 1/4", subrounded) with sand, very moist. (GM)	55	2.0		
	35							
	11	4-4		Dark grayish brown silty clayey fine SAND, wet. (SC)	23*	2.0		
				Mottled gray/dark yellowish brown clayey fine to medium SAND, wet, moderate iron staining common. (SC)	15	<1		
	12							
	40			Dark grayish brown clayey GRAVEL (to 1 1/4", subrounded). (GC)	2*	2.5		
	13			Dark yellowish brown clayey fine to coarse SAND, wet. (SC)	58	<1		
	45							
	14	4-5		Dark gray clayey coarse to fine SAND with gravel (to 1 1/2", subrounded). (SC)		1.5		
				Dark yellowish brown fine sandy CLAY, very moist. (CL)	11*	<1		
	15			Mottled grayish brown/dark yellowish brown clayey SILT, very moist, strong iron staining common. (ML)	21	<1		
	50							
	16	4-6		Show of water on sample and clay fractures. Dark yellowish brown clayey GRAVEL, saturated. (GC) Dark yellowish brown, silty CLAY, wet. (CL)	16*	<1		
					5	<1		
	55							
	17			No recovery.	11*			
	18				8			
	60				44			
		4-7		Yellowish brown clayey fine SAND, wet. (SC)	19*	<1		

DRAFT

OVMMET 4391 11/3/97

ENGEO INCORPORATED	RAY STREET PROPERTY PLEASANTON, CALIFORNIA		BORING NO.: B-4	FIGURE NO.
			DATE: November 1997	
			PROJECT NO.: 4391-F3	

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DATE OF BORING: October 7, 1997	N S.P.T. BLOWS/FT	OVM READING P.I.D. (10.0eV)	IN PLACE	
				SURFACE ELEVATION: Approx. 355.0 feet msl (108.2 meters msl)			DRY UNIT WEIGHT (PCF)	MOIST. CONTENT % DRY WEIGHT
DESCRIPTION				*MODIFIED FOR 3" O.D. SAMPLER	(parts per million)			
-19				Yellowish brown clayey fine SAND with moderate iron staining common, very moist. (SC)	45	3.0		
-65	-20	4-8 4-9		Gray brown/dark yellowish brown fine sandy very silty CLAY, very moist, moderate iron staining abundant. (CL)	35*	< 1		
-21				Brown silty medium to coarse SAND with gravel (to 1", subangular to subrounded), saturated. (SM)	75	< 1		
-70	-22			Dark yellowish brown clayey fine SAND, wet. (SC)	8*	8.5		
-75	-23		 Approximate depth of ground water.					
-80	-24							
-25				Bottom of boring at approximately 80 feet. Ground-water sample W-4 recovered at 15:20.				
-85	-26			DRAFT				
-27								
-90	-28							

OVM/MT 4391 11/3/97

ENGEO
INCORPORATED

RAY STREET PROPERTY
PLEASANTON, CALIFORNIA

BORING NO.: B-4
DATE: November 1997
PROJECT NO.: 4391-F3

FIGURE NO.

CHECKED BY

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DATE OF BORING: October 7, 1997	N S.P.T. BLOWS/FT	OVM READING P.I.D. (10.0eV) (parts per million)	IN PLACE	
				SURFACE ELEVATION: Approx. 355.0 feet msl (108.2 meters msl)			DRY UNIT WEIGHT (PCF)	MOIST. CONTENT % DRY WEIGHT
DESCRIPTION								
0			Gray aggregate, dry. (Fill)		7*	< 1		
			Dark grayish brown clayey SILT with sand and gravel (to 2" subrounded), moist. (Fill) (ML)		6	< 1		
					24*	1.0		5-1
					8	< 1		
10			Dark grayish brown very silty CLAY, tree roots, moist. (CL)		11*	< 1		
					8	< 1		
15		5-2			11*	< 1		
			Dark yellow brown clayey fine to coarse SAND with gravel (to 2/3", subrounded), very moist. (SC)		26	< 1		
20			Dark yellowish brown clayey GRAVEL (to 1 1/2", subrounded), moist. (GC)		24*	< 1		
			Dark yellowish brown, clayey fine to medium SAND, moist. (SC)		45	< 1		
25		5-3			11*	< 1		
			Dark yellowish brown clayey fine to coarse SAND. (SC)		20	< 1		
30			Dark brown silty CLAY with sand, very moist. (CL)					

DRAFT

OVMMET 4391 11/3/97









ENGEO
INCORPORATED

RAY STREET PROPERTY
PLEASANTON, CALIFORNIA

BORING NO.: B-5
DATE: November 1997
PROJECT NO.: 4391-F3

FIGURE NO.

CHECKED BY

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DATE OF BORING: October 7, 1997	N S.P.T. BLOWS/FT	OVM READING P.I.D. (10.0eV) (parts per million)	IN PLACE	
				SURFACE ELEVATION: Approx. 355.0 feet msl (108.2 meters msl)			DRY UNIT WEIGHT (PCF)	MOIST. CONTENT % DRY WEIGHT
				DESCRIPTION	*MODIFIED FOR 3" O.D. SAMPLER			
				Mottled dark brown/dark gray clayey SILT, very moist. (ML)	4*	< 1		
				Mottled dark brown/dark gray clayey very silty fine SAND, very moist, moderate iron staining common. (SM)	13	1.5		
				Dark gray silty fine to medium SAND, very moist. (SM)				
				Approximate depth of ground water.				
		5-4		Dark gray silty CLAY with sand, very moist. (CL)	17*			
				Dark gray well graded GRAVEL (to 1 1/2" m.s. subrounded) with clay and sand, saturated. (GW)				
				Dark gray brown clayey GRAVEL (to 1 1/4", subrounded), very moist. (GC)	88			
		5.5		Bottom of boring at approximately 40 feet. Ground-water sample recovered at 18:50.				

DRAFT

OVMMET 4391 11/3/97

ENGEO
INCORPORATED

RAY STREET PROPERTY
PLEASANTON, CALIFORNIA

BORING NO.: B-5

DATE: November 1997

PROJECT NO.: 4391-F3

FIGURE NO.

CHECKED BY

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DATE OF BORING: October 8, 1997		N S.P.T. BLOWS/FT	OVM READING P.I.D. (10.0eV)	IN PLACE	
				SURFACE ELEVATION: Approx. 353.0 feet msl (107.6 meters msl)				DRY UNIT WEIGHT (PCF)	MOIST. CONTENT % DRY WEIGHT
DESCRIPTION				*MODIFIED FOR 3" O.D. SAMPLER	(parts per million)				
0				Dark grayish brown silty GRAVEL with sand and cobbles (including concrete and asphalt). (Fill)(GM)					
				Dark gray brown clayey SILT with fine sand, tree roots, damp. (ML)	3*	< 1			
-1					3	< 1			
-5		6-1			8*	< 1			
-2					5	< 1			
-10					26*				
-4				Dark grayish brown silty CLAY with sand, moist. (CL)	11	< 1			
-15		6-2			26*				
-5				Dark yellowish brown clayey GRAVEL (to 3/4", subrounded) with sand, moist. (GC)	26				
-20				Dark yellowish brown/dark gray brown silty CLAY with gravel (to 1/2", subrounded). (CL)	40*	< 1			
-7				Dark yellowish brown clayey GRAVEL (to 1", subrounded), moist. (GC)	46	< 1			
-25		6-3			18*	< 1			
-8				Dark brown clayey fine to coarse SAND, moist. (SC)	40				
-30				Dark yellowish brown clayey SAND with trace gravel (to 3/4", subrounded), moist. (SC)					

DRAFT

OVMMEET 4391 11/2/97

ENGEO
INCORPORATED

RAY STREET PROPERTY
PLEASANTON, CALIFORNIA

BORING NO.: B-6

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY

FIGURE
NO.

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DATE OF BORING: October 8, 1997	N S.P.T. BLOWS/FT	OVM READING P.I.D. (10.0eV)	IN PLACE	
				SURFACE ELEVATION: Approx. 353.0 feet msl (107.6 meters msl)			DRY UNIT WEIGHT (PCF)	MOIST. CONTENT % DRY WEIGHT
DESCRIPTION				*MODIFIED FOR 3" O.D. SAMPLER	(parts per million)			
		6-4	Mottled dark brown/dark gray very fine sandy SILT, very moist. (ML)		19*	< 1		
	10		Dark gray brown silty fine SAND, wet. (SM)		15	< 1		
			Mottled dark brown/dark gray very fine sandy SILT, very moist. (ML)					
	35	6-5	▽ Approximate depth of groundwater.					
	11		Dark gray brown silty GRAVEL (to 1", subrounded), saturated. (GM)		27*			
	12	6-6	Reddish brown sandy CLAY, very wet. (SC)		32			
	40		Bottom of boring at approximately 40 feet. Ground-water sample W-6 recovered at 15:20					
	13							
	45							
	14							
	15							
	50							
	16							
	55							
	17							
	18							
	60							

DRAFT

OVM/MET 4391 11/3/97

ENGEO
INCORPORATED

RAY STREET PROPERTY
PLEASANTON, CALIFORNIA

BORING NO.: B-6
DATE: November 1997
PROJECT NO.: 4391-F3

CHECKED BY

FIGURE NO.



Superior

Analytical Laboratory

ENGEO INC
2401 Crow Canyon Rd, Suite 200
San Ramon, CA 9458

Date: October 9, 1997

Attn: Keith Nowell

Laboratory Number : 23309

Project Number/Name : 4391-F3

Facility/Site : 63/65/67 RAY STREET

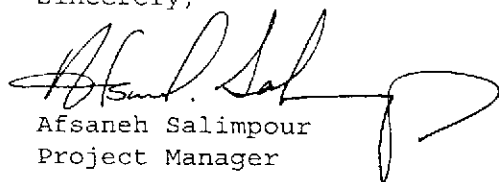
Dear Keith Nowell:

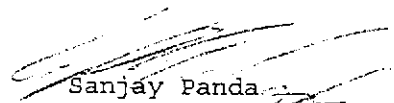
Attached is Superior Analytical Laboratory report for the samples received on October 7, 1997. This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety. Following the cover letter is the Case Narrative detailing sample receipt and analysis. Also enclosed is a copy of the original Chain-of-Custody record confirming receipt of samples.

Please note that any unused portion of the sample will be discarded after November 6, 1997, unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please contact our Laboratory at (510) 313-0850.

Sincerely,


Afsaneh Salimpour
Project Manager


Sanjay Panda
QA/QC Manager



Superior

Analytical Laboratory

CASE NARRATIVE

ENGEO INC
Project Number/Name: 4391-F3
Laboratory Number: 23309

Sample Receipt

Seventeen soil samples and
One water sample were received by
Superior Analytical Laboratory on October 7, 1997.

Cooler temperature was 5.1°C

No abnormalities were noted with sample receiving.

Sample Analysis

The samples were analyzed for methods 8015M, 8020 and HOLD.

NOTE: Reproduction of this report is permitted only in its entirety.



Superior

Analytical Laboratory

ENGEO INC
Attn: Keith Nowell

Project 4391-F3
Reported on October 9, 1997

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 23309

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
1-1	10/06/97	10/07/97	10/07/97	10/07/97	DJ071.37	01
1-2	10/06/97	10/07/97	10/07/97	10/07/97	DJ071.37	02
1-3	10/06/97	10/07/97	10/07/97	10/07/97	DJ071.37	03
1-4	10/06/97	10/07/97	10/07/97	10/07/97	DJ071.37	04
2-1	10/06/97	10/07/97	10/07/97	10/07/97	DJ071.37	05
2-2	10/06/97	10/07/97	10/07/97	10/07/97	DJ071.37	06
2-3	10/06/97	10/07/97	10/07/97	10/07/97	DJ071.37	07
2-4	10/06/97	10/07/97	10/07/97	10/07/97	DJ071.37	08
4-1	10/07/97	10/07/97	10/07/97	10/07/97	DJ071.37	09
4-2	10/07/97	10/07/97	10/07/97	10/07/97	DJ071.05	10
4-3	10/07/97	10/07/97	10/07/97	10/07/97	DJ071.05	11
4-4	10/07/97	10/07/97	10/07/97	10/07/97	DJ071.05	12
4-6	10/07/97	10/07/97	10/07/97	10/07/97	DJ071.05	14
4-7	10/07/97	10/07/97	10/07/97	10/07/97	DJ071.05	15
4-8	10/07/97	10/07/97	10/07/97	10/07/97	DJ071.05	16
W-4	10/07/97	10/07/97	10/08/97	10/08/97	DJ082.37	18

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
DJ082.37-01	Method Blank	MB	Water	10/08/97	10/08/97
DJ071.05-02	Laboratory Spike	LS	Soil	10/07/97	10/07/97
DJ071.05-03	1212 SS33-15-9.5	MS 23292-01	Soil	10/07/97	10/07/97
DJ071.05-04	1212 SS33-15-9.5	MSD 23292-01	Soil	10/07/97	10/07/97
DJ071.05-05	Method Blank	MB	Soil	10/07/97	10/07/97
DJ071.37-05	Method Blank	MB	Soil	10/07/97	10/07/97
DJ071.37-06	Laboratory Spike	LS	Soil	10/07/97	10/07/97
DJ071.37-07	B-3-5	MS 23300-09	Soil	10/07/97	10/07/97
DJ071.37-08	B-3-5	MSD 23300-09	Soil	10/07/97	10/07/97
DJ082.37-02	Laboratory Spike	LS	Water	10/08/97	10/08/97
DJ082.37-03	0930 GGW-58	MS 23277-05	Water	10/08/97	10/08/97
DJ082.37-04	0930 GGW-58	MSD 23277-05	Water	10/08/97	10/08/97



Superior

Analytical Laboratory

ENGEO INC
Attn: Keith Nowell

Project 4391-F3
Reported on October 9, 1997

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Table with 5 columns: LAB ID, Sample ID, Matrix, Dil. Factor, Moisture. Rows include samples 23309-01 to 23309-04.

RESULTS OF ANALYSIS

Table with 9 columns: Compound, 23309-01 (Conc., RL), 23309-02 (Conc., RL), 23309-03 (Conc., RL), 23309-04 (Conc., RL). Rows include Gasoline Range, Benzene, Toluene, Ethyl Benzene, Methyl-t-butyl-ether, Xylenes, and Surrogate Recoveries.



Superior

Analytical Laboratory

ENGEO INC
Attn: Keith Nowell

Project 4391-F3
Reported on October 9, 1997

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Table with 5 columns: LAB ID, Sample ID, Matrix, Dil. Factor, Moisture. Rows include samples 23309-05 through 23309-08.

RESULTS OF ANALYSIS

Table with 10 columns: Compound, 23309-05 Conc. RL mg/kg, 23309-06 Conc. RL mg/kg, 23309-07 Conc. RL mg/kg, 23309-08 Conc. RL mg/kg. Rows include Gasoline Range, Benzene, Toluene, Ethyl Benzene, Methyl-t-butyl-ether, Xylenes, and Trifluorotoluene (SS).



Superior

Analytical Laboratory

ENGEO INC
Attn: Keith Nowell

Project 4391-F3
Reported on October 9, 1997

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
23309-09	4-1	Soil	1.0	-
23309-10	4-2	Soil	1.0	-
23309-11	4-3	Soil	1.0	-
23309-12	4-4	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	23309-09		23309-10		23309-11		23309-12	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	mg/kg		mg/kg		mg/kg		mg/kg	
Gasoline Range	ND	1	ND	1	ND	1	ND	1
Benzene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Toluene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Ethyl Benzene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Methyl-t-butyl-ether	NA		NA		NA		NA	
Xylenes	ND	0.005	ND	0.005	ND	0.005	ND	0.005
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	85		80		88		84	



Superior

Analytical Laboratory

ENGEO INC
Attn: Keith Nowell

Project 4391-F3
Reported on October 9, 1997

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
23309-14	4-6	Soil	1.0	-
23309-15	4-7	Soil	1.0	-
23309-16	4-8	Soil	1.0	-
23309-18	W-4	Water	1.0	-

RESULTS OF ANALYSIS

Compound	23309-14		23309-15		23309-16		23309-18		
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL	
	mg/kg		mg/kg		mg/kg		ug/L		
Gasoline Range	ND	1	ND	1	ND	1	630	50	
Benzene	ND	0.005	ND	0.005	ND	0.005	23P	0.5	
Toluene	ND	0.005	ND	0.005	ND	0.005	1.5	0.5	
Ethyl Benzene	ND	0.005	ND	0.005	ND	0.005	0.9	0.5	
Methyl-t-butyl-ether	NA		NA		NA		480D	25	
Xylenes	ND	0.005	ND	0.005	ND	0.005	0.8	0.5	
>> Surrogate Recoveries (%) <<									
Trifluorotoluene (SS)	91		85		89		120		



Superior

Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 23309
Method Blank(s)

	DJ082.37-01		DJ071.05-05		DJ071.37-05	
	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		mg/kg		mg/kg	
Gasoline Range	ND	50	ND	1	ND	1
Benzene	ND	0.5	ND	0.005	ND	0.005
Toluene	ND	0.5	ND	0.005	ND	0.005
Ethyl Benzene	ND	0.5	ND	0.005	ND	0.005
Methyl-t-butyl-ether	ND	5				
Xylenes	ND	0.5	ND	0.005	ND	0.005
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)	100		86		102	



Superior

Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
 by EPA SW-846 5030/8015M/8020
 Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 23309

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg)						
DJ071.05 02 / - Laboratory Control Spikes						
Gasoline Range		10	8.9	89	65-135	
Benzene		0.100	0.093	93	65-135	
Toluene		0.100	0.10	100	65-135	
Ethyl Benzene		0.100	0.10	100	65-135	
Xylenes		0.300	0.30	100	65-135	
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				91	50-150	
For Soil Matrix (mg/kg)						
DJ071.37 06 / - Laboratory Control Spikes						
Gasoline Range		10	10	100	65-135	
Benzene		0.100	0.11	110	65-135	
Toluene		0.100	0.11	110	65-135	
Ethyl Benzene		0.100	0.11	110	65-135	
Xylenes		0.300	0.34	113	65-135	
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				109	50-150	
For Water Matrix (ug/L)						
DJ082.37 02 / - Laboratory Control Spikes						
Gasoline Range		2000	1900	95	65-135	
Benzene		20	22	110	65-135	
Toluene		20	22	110	65-135	
Ethyl Benzene		20	22	110	65-135	
Xylenes		60	65	108	65-135	
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				103	50-150	

Reproduction of this report is permitted only in its entirety.



Superior

Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
 by EPA SW-846 5030/8015M/8020
 Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 23309

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg)						
DJ071.05 03 / 04 - Sample Spiked: 23292 - 01						
Gasoline Range	ND	10	9.3/9.6	93/96	65-135	3
Benzene	ND	0.100	0.090/0.091	90/91	65-135	1
Toluene	ND	0.100	0.092/0.096	92/96	65-135	4
Ethyl Benzene	ND	0.100	0.099/0.10	99/100	65-135	1
Xylenes	ND	0.300	0.30/0.29	100/97	65-135	3

>> Surrogate Recoveries (%) <<
 Trifluorotoluene (SS)

87/89 50-150

For Soil Matrix (mg/kg)

DJ071.37 07 / 08 - Sample Spiked: 23300 - 09

Gasoline Range	ND	10	9.6/9.7	96/97	65-135	1
Benzene	ND	0.100	0.11/0.11	110/110	65-135	0
Toluene	ND	0.100	0.11/0.11	110/110	65-135	0
Ethyl Benzene	ND	0.100	0.11/0.11	110/110	65-135	0
Xylenes	ND	0.300	0.33/0.32	110/107	65-135	3

>> Surrogate Recoveries (%) <<
 Trifluorotoluene (SS)

104/103 50-150

For Water Matrix (ug/L)

DJ082.37 03 / 04 - Sample Spiked: 23277 - 05

Gasoline Range	ND	2000	2000/1900	100/95	65-135	5
Benzene	ND	20	22/21	110/105	65-135	5
Toluene	ND	20	22/22	110/110	65-135	0
Ethyl Benzene	ND	20	22/22	110/110	65-135	0
Xylenes	ND	60	65/65	108/108	65-135	0

>> Surrogate Recoveries (%) <<
 Trifluorotoluene (SS)

105/104 50-150

Reproduction of this report is permitted only in its entirety.



Superior

Analytical Laboratory

Narrative:

- D - Compound was quantitated on a diluted sample.
- P - There is a greater than 25% difference for detected concentration between the two GC columns.

Definitions:

- ND = Not Detected
- RL = Reporting Limit
- NA = Not Analysed
- RPD = Relative Percent Difference
- ug/L = parts per billion (ppb)
- mg/L = parts per million (ppm)

- ug/kg = parts per billion (ppb)
- mg/kg = parts per million (ppm)

23309

CHAIN OF CUSTODY RECORD

PROJECT NUMBER		PROJECT NAME					TPH - GASOLINE (EPA 9015/3550/3510)	TPH - DIESEL (EPA 9015/3550/3510)	PURGEABLE AROMATICS BTX (EPA 502, 9030)	PURGEABLE HALOCARBONS (EPA 501, 8010)	VOLATILE ORGANICS (EPA 524, 8240)	BASE/NEUTRALS, ACIDS (EPA 825, 8270)	TOTAL OIL & GREASE (SMW 5520 (f))	OC PESTICIDES/PCB (EPA 508, 8080)	OP PESTICIDES (EPA 614/8140)	TITLE 26 METALS (17)	PRIORITY METALS (13)	MTBE	REMARKS REQUIRED DETECTION LIMITS	
SAMPLED BY: (SIGNATURE)																				
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE														
4391-E3		63/65/67 Ray Street					Keith Nowell (Keith Nowell)													
1-1	10-6-97	0925	Soil	1	6"x2.5"	Ice	X	X												
1-2	10-6-97	1000	Soil	1	6"x2.5"	Ice	X	X												
1-3	10-6-97	1045	Soil	1	6"x2.5"	Ice	X	X												
1-4	10-6-97	1200	Soil	1	6"x1.5"	Ice	X	X												
2-1	10-6-97	1450	Soil	1	6"x2.5"	Ice	X	X												
2-2	10-6-97	1535	Soil	1	6"x2.5"	Ice	X	X												
2-3	10-6-97	1640	Soil	1	6"x2.5"	Ice	X	X												
2-4	10-6-97	1740	Soil	1	6"x2.5"	Ice	X	X												
4-1	10-7-97	0800	Soil	1	6"x2.5"	Ice	X	X												
4-2	10-7-97	0835	Soil	1	6"x2.5"	Ice	X	X												
4-3	10-7-97	0915	Soil	1	6"x2.5"	Ice	X	X												
4-4	10-7-97	0950	Soil	1	6"x2.5"	Ice	X	X												
4-5	10-7-97	1040	Soil	1	6"x2.5"	Ice													Hold	
4-6	10-7-97	1115 1115	Soil	1	6"x2.5"	Ice	X	X												
4-7	10-7-97	1145	Soil	1	6"x1.5"	Ice	X	X												
4-8	10-7-97	1340	Soil	1	6"x2.5"	Ice	X	X												
4-9	10-7-97	1350	Soil	1	6"x1.5"	Ice													Hold	
W-4	10-7-97	1520	Aqueous	2	40m	Acid	X	X											Hold	

Please Initial: _____

Samples Stored in ice _____ JTC

Appropriate containers _____

Samples preserved _____

VCA's without headspace _____

Comments: _____

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES

RELINQUISHED BY: (SIGNATURE) Keith Nowell	DATE/TIME 10/07/97 1546	RECEIVED BY: (SIGNATURE) JTC	RELINQUISHED BY: (SIGNATURE) JTC	DATE/TIME 10/7/97 4:49 pm	RECEIVED BY: (SIGNATURE) Steve Carlson
RELINQUISHED BY: (SIGNATURE) X	DATE/TIME	RECEIVED BY: (SIGNATURE) X	RELINQUISHED BY: (SIGNATURE) X	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE) X	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE) Steve Carlson 10/7/97	DATE/TIME 10/7/97	REMARKS 16 FAX C-OC to Coy 838-7425 RUSH - 24 TAB.	



Superior

Analytical Laboratory

ENGEO INC
2401 Crow Canyon Rd, Suite 200
San Ramon, CA 9458

Date: October 17, 1997

07 2 4

Attn: Keith Nowell

Laboratory Number : 23323

Project Number/Name : 4391-F3

Facility/Site : 63/65/67 RAY STREET

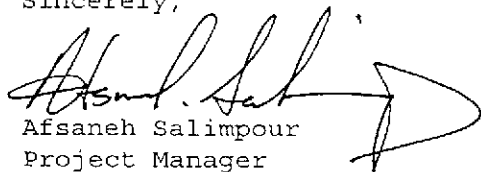
Dear Keith Nowell:

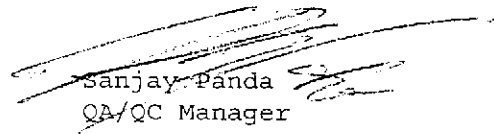
Attached is Superior Analytical Laboratory report for the samples received on October 8, 1997. This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety. Following the cover letter is the Case Narrative detailing sample receipt and analysis. Also enclosed is a copy of the original Chain-of-Custody record confirming receipt of samples.

Please note that any unused portion of the sample will be discarded after November 7, 1997, unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please contact our Laboratory at (510) 313-0850.

Sincerely,


Afsaneh Salimpour
Project Manager


Sanjay Panda
QA/QC Manager



Superior

Analytical Laboratory

CASE NARRATIVE

ENGEO INC

Project Number/Name: 4391-F3

Laboratory Number: 23323

Sample Receipt

Five soil samples and
One water sample were received by
Superior Analytical Laboratory on October 8, 1997.

Cooler temperature was 4°C

No abnormalities were noted with sample receiving.

Sample Analysis

The samples were analyzed for methods 8015M and 8020.

NOTE: Reproduction of this report is permitted only in its entirety.



Superior

Analytical Laboratory

ENGEO INC
Attn: Keith Nowell

Project 4391-F3
Reported on October 14, 1997

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 23323

Table with 6 columns: Sample ID, Sampled, Received, Extract., Analyzed, QC Batch, LAB #. Rows 5-1 to 5-5.

QC Samples

Table with 6 columns: QC Batch #, QC Sample ID, TypeRef., Matrix, Extract., Analyzed. Rows DJ131.05-01 to DJ131.05-04.



Superior

Analytical Laboratory

ENGEO INC
Attn: Keith Nowell

Project 4391-F3
Reported on October 14, 1997

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
23323-01	5-1	Soil	1.0	-
23323-02	5-2	Soil	1.0	-
23323-03	5-3	Soil	1.0	-
23323-04	5-4	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	23323-01		23323-02		23323-03		23323-04		
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL	
	mg/kg		mg/kg		mg/kg		mg/kg		
Gasoline Range	ND	1	ND	1	ND	1	ND	1	
Benzene	ND	0.005	ND	0.005	ND	0.005	ND	0.005	
Toluene	ND	0.005	ND	0.005	ND	0.005	ND	0.005	
Ethyl Benzene	ND	0.005	ND	0.005	ND	0.005	ND	0.005	
Xylenes	ND	0.005	ND	0.005	ND	0.005	ND	0.005	
>> Surrogate Recoveries (%) <<									
Trifluorotoluene (SS)	68		84		77		85		



Superior

Analytical Laboratory

ENGEO INC
Attn: Keith Nowell

Project 4391-F3
Reported on October 14, 1997

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Table with 5 columns: LAB ID, Sample ID, Matrix, Dil. Factor, Moisture. Row 1: 23323-05, 5-5, Soil, 1.0, -

RESULTS OF ANALYSIS

Table with 2 columns: Compound, 23323-05. Rows: Gasoline Range (ND, 1), Benzene (ND, 0.005), Toluene (ND, 0.005), Ethyl Benzene (ND, 0.005), Xylenes (ND, 0.005)

>> Surrogate Recoveries (%) <<
Trifluorotoluene (SS) 89



Superior

Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 23323
Method Blank(s)

DJ131.05-01
Conc. RL
mg/kg

Gasoline Range	ND	1
Benzene	ND	0.005
Toluene	ND	0.005
Ethyl Benzene	ND	0.005
Xylenes	ND	0.005

>> Surrogate Recoveries (%) <<
Trifluorotoluene (SS) 85



Superior

Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
 by EPA SW-846 5030/8015M/8020
 Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 23323

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
----------	--------------	-----------	------------	------------	----------	-------

For Soil Matrix (mg/kg)
 DJ131.05 02 / - Laboratory Control Spikes

Gasoline Range		10	9.4	94	65-135	
Benzene		0.100	0.098	98	65-135	
Toluene		0.100	0.11	110	65-135	
Ethyl Benzene		0.100	0.11	110	65-135	
Xylenes		0.300	0.31	103	65-135	

>> Surrogate Recoveries (%) <<
 Trifluorotoluene (SS)

95 50-150

For Soil Matrix (mg/kg)
 DJ131.05 03 / 04 - Sample Spiked: 23323 - 01

Gasoline Range	ND	10	9.2/9.3	92/93	65-135	1
Benzene	ND	0.100	0.085/0.087	85/87	65-135	2
Toluene	ND	0.100	0.086/0.092	86/92	65-135	7
Ethyl Benzene	ND	0.100	0.090/0.094	90/94	65-135	4
Xylenes	ND	0.300	0.27/0.27	90/90	65-135	0

>> Surrogate Recoveries (%) <<
 Trifluorotoluene (SS)

82/83 50-150

Definitions:

ND = Not Detected
 RL = Reporting Limit
 NA = Not Analysed
 RPD = Relative Percent Difference
 ug/L = parts per billion (ppb)
 mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)
 mg/kg = parts per million (ppm)



Superior

Analytical Laboratory

ENGEO INC
Attn: Keith Nowell

Project 4391-F3
Reported on October 17, 1997
Revised on October 20, 1997

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 23323

Table with columns: Sample ID, Sampled, Received, Extract., Analyzed, QC Batch, LAB #. Row 1: W-5, 10/07/97, 10/08/97, 10/13/97, 10/13/97, DJ132.37, 06

QC Samples

Table with columns: QC Batch #, QC Sample ID, TypeRef., Matrix, Extract., Analyzed. Rows include Method Blank, Laboratory Spike, and two 1245 EFF-1010 samples.



Superior

Analytical Laboratory

ENGEO INC
Attn: Keith Nowell

Project 4391-F3
Reported on October 17, 1997
Revised on October 20, 1997

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Table with 5 columns: LAB ID, Sample ID, Matrix, Dil. Factor, Moisture. Row 1: 23323-06, W-5, Water, 1.0, -

RESULTS OF ANALYSIS

Compound 23323-06
Conc. RL
ug/L

Table with 3 columns: Compound, Conc., RL. Rows: Gasoline Range (ND, 50), Benzene (ND, 0.5), Toluene (ND, 0.5), Ethyl Benzene (ND, 0.5), Total Xylenes (ND, 0.5), Methyl-t-butyl-ether (7, 5)

>> Surrogate Recoveries (%) <<
Trifluorotoluene (SS) 105



Superior

Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 23323
Method Blank(s)

DJ132.37-01
Conc. RL
ug/L

Gasoline Range	ND	50
Benzene	ND	0.5
Toluene	ND	0.5
Ethyl Benzene	ND	0.5
Total Xylenes	ND	0.5
Methyl-t-butyl-ether	ND	5

>> Surrogate Recoveries (%) <<
Trifluorotoluene (SS) 103



Superior

Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020

Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 23323

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L)						
DJ132.37 02 / - Laboratory Control Spikes						
Gasoline Range		2000	1900	95	65-135	
Benzene		20	22	110	65-135	
Toluene		20	22	110	65-135	
Ethyl Benzene		20	22	110	65-135	
Total Xylenes		60	66	110	65-135	
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				104	50-150	
For Water Matrix (ug/L)						
DJ132.37 03 / 04 - Sample Spiked: 23331 - 04						
Gasoline Range	ND	2000	2000/2000	100/100	65-135	0
Benzene	ND	20	22/22	110/110	65-135	0
Toluene	ND	20	22/22	110/110	65-135	0
Ethyl Benzene	ND	20	22/22	110/110	65-135	0
Total Xylenes	ND	60	66/66	110/110	65-135	0
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				103/102	50-150	

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)

mg/kg = parts per million (ppm)

23323

CHAIN OF CUSTODY RECORD

PROJECT NAME						TPH - GASOLINE (EPA 8015/5030)	TPH - DIESEL (EPA 3015/3550/3510)	PURGEABLE AROMATICS BTEX (EPA 602, 6020)	PURGEABLE HALOCARBONS (EPA 801, 8010)	VOLATILE ORGANICS (EPA 824, 8240)	BASE/NEUTRALS, ACIDS (EPA 825, 8270)	TOTAL OIL & GREASE (SMWW 5520(F))	OC PESTICIDES/PCB (EPA 808, 9080)	OP PESTICIDES (EPA 514/8140)	TITLE 26 METALS (17)	PRIORITY METALS (13)	REMARKS REQUIRED DETECTION LIMITS	
DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE													
EF3 63/65/67 Ray Street																		
SIGNATURE) Nowell (Kevin Nowell)																		
7/97	16:40	Soil	1	6" x 8 1/2"	Ice	X	X										Hold	
7/97	17:00	Soil	1	6" x 2 1/2"	Ice	X	X										Hold	
7/97	17:35	Soil	1	6" x 2 1/2"	Ice	X	X										Hold	
7/97	18:20	Soil	1	6" x 2 1/2"	Ice	X	X										Hold	
7/97	18:30	Soil	1	6" x 1 1/2"	Ice												Hold	
7/97	18:50	Apparatus	3	40ml	Acid	X	X										Hold	
<div style="border: 1px solid black; padding: 5px;"> Please Initial: <i>[Signature]</i> Samples Stored in ice. <i>YES</i> Appropriate containers <i>YES</i> Samples preserved <i>YES</i> VOL's without headspace <i>[Signature]</i> Comments: <i>to 4°C</i> </div>																		
SIGNATURE) <i>[Signature]</i>																		
DATE/TIME) 10/8/97 14:22																		
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>																		
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>																		
DATE/TIME) 10/8/97 15:30																		
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>																		
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>																		
DATE/TIME) 10/8/97 15:40																		
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>																		
DATE/TIME) 10/8/97 15:40																		
REMARKS) 24 Hr TAT on Water Sample 48 Hr on Soil																		

10-9-97

23323

Please analyze samples S-1, S-2, S-3, S-4
S-5, and W-5 in accordance with chain
of custody dated 10/8/97



ENGINEER

ENGEO INC
2401 Crow Canyon Rd, Suite 200
San Ramon, CA 9458

Date: October 13, 1997

Attn: Keith Nowell

Laboratory Number : 23319

Project Number/Name : 4391-F3

Facility/Site : 63/65/67 RAY STREET

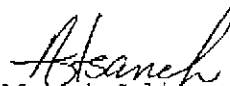
Dear Keith Nowell:

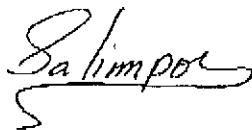
Attached is Superior Analytical Laboratory report for the samples received on October 9, 1997. This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety. Following the cover letter is the Case Narrative detailing sample receipt and analysis. Also enclosed is a copy of the original Chain-of-Custody record confirming receipt of samples.

Please note that any unused portion of the sample will be discarded after November 8, 1997, unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please contact our Laboratory at (510) 313-0850.

Sincerely,


Afsaneh Salimpour
Project Manager



Sanjay Panda
QA/QC Manager

CASE NARRATIVE

ENGE0 INC

Project Number/Name: 4391-F3

Laboratory Number: 23319

Sample Receipt

Nine soil samples and
One water sample were received by
Superior Analytical Laboratory on October 9, 1997.

Cooler temperature was 5.9°C

No abnormalities were noted with sample receiving.

Sample Analysis

The samples were analyzed for methods 8015M and 8020.

GASBTXE/GBTXEMTBE

- P - There is a greater than 25% difference for detected concentration between the two GC columns.
- !!- Hydrocarbons were found in the range of gasoline, but do not resemble a gasoline fingerprint.

NOTE: Reproduction of this report is permitted only in its entirety.

ENGEO INC
 Attn: Keith Nowell

Project 4391-F3
 Reported on October 10, 1997

Gasoline Range Petroleum Hydrocarbons and BTXE
 by EPA SW-846 5030/8015M/8020
 Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 23319

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
3-1	10/08/97	10/09/97	10/09/97	10/09/97	DJ091.37	01
3-2	10/08/97	10/09/97	10/09/97	10/09/97	DJ091.37	02
3-3	10/08/97	10/09/97	10/09/97	10/09/97	DJ091.37	03
3-4	10/08/97	10/09/97	10/09/97	10/09/97	DJ091.37	04
6-1	10/08/97	10/09/97	10/09/97	10/09/97	DJ091.37	05
6-2	10/08/97	10/09/97	10/09/97	10/09/97	DJ091.37	06
6-3	10/08/97	10/09/97	10/09/97	10/09/97	DJ091.37	07
6-5	10/08/97	10/09/97	10/09/97	10/09/97	DJ091.37	08
6-6	10/08/97	10/09/97	10/09/97	10/09/97	DJ091.37	09

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
DJ091.37-01	Method Blank	MB	Soil	10/09/97	10/09/97
DJ091.37-02	Laboratory Spike	LS	Soil	10/09/97	10/09/97
DJ091.37-03	6-1	MS 23319-05	Soil	10/09/97	10/09/97
DJ091.37-04	6-1	MSD 23319-05	Soil	10/09/97	10/09/97

ENGE@ INC
Attn: Keith Nowell

Project 4391-F3
Reported on October 10, 1997

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
23319-01	3-1	Soil	1.0	-
23319-02	3-2	Soil	1.0	-
23319-03	3-3	Soil	1.0	-
23319-04	3-4	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	23319-01		23319-02		23319-03		23319-04	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	mg/kg		mg/kg		mg/kg		mg/kg	
Gasoline Range	ND	1	ND	1	ND	1	ND	1
Benzene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Toluene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Ethyl Benzene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Xylenes	ND	0.005	ND	0.005	ND	0.005	ND	0.005
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	92		103		105		62	

ENGEO INC
Attn: Keith Nowell

Project 4391-F3
Reported on October 10, 1997

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10.

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
23319-05	6-1	Soil	1.0	-
23319-06	6-2	Soil	1.0	-
23319-07	6-3	Soil	1.0	-
23319-08	6-5	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	23319-05		23319-06		23319-07		23319-08	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	mg/kg		mg/kg		mg/kg		mg/kg	
Gasoline Range	ND	1	ND	1	ND	1	ND	1
Benzene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Toluene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Ethyl Benzene	ND	0.005	ND	0.005	ND	0.005	ND	0.005
Xylenes	ND	0.005	ND	0.005	ND	0.005	ND	0.005
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	92		105		105		101	

ENGEO INC
Attn: Keith NowellProject 4391-F3
Reported on October 10, 1997

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
23319-09	6-6	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	23319-09 Conc. RL mg/kg
Gasoline Range	ND 1
Benzene	ND 0.005
Toluene	ND 0.005
Ethyl Benzene	ND 0.005
Xylenes	ND 0.005
>> Surrogate Recoveries (%) << Trifluorotoluene (SS)	104

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 23319
Method Blank(s)

DJ091.37-01
Conc. RL
ng/kg

Gasoline Range	ND	1
Benzene	ND	0.005
Toluene	ND	0.005
Ethyl Benzene	ND	0.005
Xylenes	ND	0.005

>> Surrogate Recoveries (%) <<
Trifluorotoluene (SS) 107

Gasoline Range Petroleum Hydrocarbons and BTXE
 by EPA SW-846 5030/8015M/8020
 Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 23319

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg)						
DJ091.37 02 / - Laboratory Control Spikes						
Gasoline Range		10	9.7	97	65-135	
Benzene		0.100	0.10	100	65-135	
Toluene		0.100	0.10	100	65-135	
Ethyl Benzene		0.100	0.10	100	65-135	
Xylenes		0.300	0.31	103	65-135	
>> Surrogate Recoveries (%) <<						
	Trifluorotoluene (SS)			98	50-150	
For Soil Matrix (mg/kg)						
DJ091.37 03 / 04 - Sample Spiked: 23319 - 05						
Gasoline Range	ND	10	9.0/9.0	90/90	65-135	0
Benzene	ND	0.100	0.095/0.095	95/95	65-135	0
Toluene	ND	0.100	0.096/0.096	96/96	65-135	0
Ethyl Benzene	ND	0.100	0.092/0.093	92/93	65-135	1
Xylenes	ND	0.300	0.28/0.28	93/93	65-135	0
>> Surrogate Recoveries (%) <<						
	Trifluorotoluene (SS)			92/95	50-150	

Definitions:

- ND = Not Detected
- RL = Reporting Limit
- NA = Not Analysed
- RPD = Relative Percent Difference
- ug/L = parts per billion (ppb) ug/kg = parts per billion (ppb)
- mg/L = parts per million (ppm) mg/kg = parts per million (ppm)

ENGEO INC
Attn: Keith Nowell

Project 4391-F3
Reported on October 13, 1997

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 23319

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
W-6	10/08/97	10/09/97	10/09/97	10/09/97	DJ092.37	10

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
DJ092.37-01	Method Blank	MB	Water	10/09/97	10/09/97
DJ092.37-02	Laboratory Spike	LS	Water	10/09/97	10/09/97
DJ092.37-03	EFF-1008	MS 23311-01	Water	10/09/97	10/09/97
DJ092.37-04	EFF-1008	MSD 23311-01	Water	10/09/97	10/09/97

ENGEO INC
 Attn: Keith Nowell

Project 4391-F3
 Reported on October 13, 1997

Gasoline Range Petroleum Hydrocarbons and BTXE
 by EPA SW-846 5030/8015M/8020
 Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
23319-10	W-6	Water	1.0	-

R E S U L T S O F A N A L Y S I S

Compound 23319-10
 Conc. RL
 ug/L

Gasoline Range	120!!	50
Benzene	ND	0.5
Toluene	ND	0.5
Ethyl Benzene	ND	0.5
Total Xylenes	1.1P	0.5
Methyl-t-butyl-ether	ND	5

>> Surrogate Recoveries (%) <<

Trifluorotoluene (SS) 105

Gasoline Range Petroleum Hydrocarbons and BTXE
 by EPA SW-846 5030/8015M/8020
 Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 23319
 Method Blank(s)

DJ092.37-01
 Conc. RL
 ug/L

Gasoline Range	ND	50
Benzene	ND	0.5
Toluene	ND	0.5
Ethyl Benzene	ND	0.5
Total Xylenes	ND	0.5
Methyl-t-butyl-ether	ND	5

>> Surrogate Recoveries (%) <<
 Trifluorotoluene (SS) 102

Gasoline Range Petroleum Hydrocarbons and BTXE
 by EPA SW-846 5030/8015M/8020
 Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 23319

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
----------	--------------	-----------	------------	------------	----------	-------

For Water Matrix (ug/L)
 DJ092.37 02 / - Laboratory Control Spikes

Gasoline Range		2000	1900	95	65-135	
Benzene		20	21	105	65-135	
Toluene		20	22	110	65-135	
Ethyl Benzene		20	21	105	65-135	
Total Xylenes		60	65	108	65-135	

>> Surrogate Recoveries (%) <<
 Trifluorotoluene (SS)

106 50-150

For Water Matrix (ug/L)
 DJ092.37 03 / 04 - Sample Spiked: 23311 - 01

Gasoline Range	ND	2000	1900/1900	95/95	65-135	0
Benzene	ND	20	21/21	105/105	65-135	0
Toluene	ND	20	22/21	110/105	65-135	5
Ethyl Benzene	ND	20	21/21	105/105	65-135	0
Total Xylenes	ND	60	64/63	107/105	65-135	2

>> Surrogate Recoveries (%) <<
 Trifluorotoluene (SS)

102/102 50-150

Narrative:

- P - There is a greater than 25% difference for detected concentration between the two GC columns.
- !!- Hydrocarbons were found in the range of gasoline, but do not resemble a gasoline fingerprint.

Definitions:

ND = Not Detected

RL = Reporting Limit

NA = Not Analysed

RPD = Relative Percent Difference

ug/L = parts per billion (ppb)

ug/kg = parts per billion (ppb)

mg/L = parts per million (ppm)

mg/kg = parts per million (ppm)