ENVIRONMENTAL ENGINEERING, INC
6620 Owens Drive, Suite A • Pleasanton, CA 94588-3334
TEL (925) 734-6400 • FAX (925) 734-6401

February 6, 2006

Mr. Jerry Wickham
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject: Fourth Quarter 2005 Groundwater Monitoring Event
Site Location: 3820 Manila Avenue, Oakland, CA

Dear Mr. Wickham:

During the Third Quarter 2005 groundwater monitoring event a minor concentration of tetrachloroethylene (PCE) (11 ug/L) was detected for the first time in monitoring well LFR-3. Figure 1 shows the location of this well. As a result of this detection, on December 9, 2005, in accordance with the guidelines of the California Regional Water Quality Control Board, SOMA re-sampled off-site well LFR-3 in order to determine whether or not the PCE plume is expanding/spreading from its previous location. Based on the analytical results, however, all tested constituents, including PCE, were below the laboratory reporting limits. The laboratory report is included as an attachment to this report.

SOMA is planning to sample LFR-3 on a quarterly basis to determine whether the PCE plume is expanding and thereby impacting further downgradient receptors.

Please do not hesitate to call Tony Perini, Senior Project Engineer, or myself at (925) 734-6400, if you have any questions or comments.

Sincerely,

Mansour Sepehr, Ph.D., PE
Principal Hydrogeologist

REGISTERED PROFESSIONAL ENGINEER
MANSOUR SEPEHR
No. C042928
Exp. 3-31-06
CIVIL
STATE OF CALIFORNIA

cc: Mr. Albert Cohen
Mr. Stuart Depper
Dr. Bruce Page

Attachments

Certification Statement

Claimant

Stuart Depper
Name

Responsible Party
Title

39610 Potrero Dr., Newark, CA 94560
Street Address City Zip

I declare under penalty of perjury that the information and/or recommendations contained in the attached document or report were prepared under my direction and to the best of my knowledge true and correct.

Stu Depper
Signature

2-6-06
Date

N

COMMERCIAL AREA

COMMERCIAL AREA

PARKING AREA

PARKING AREA

MW-8

MW-9

MW-11

MH-1

MH-3

Sanitary Sewer Manhole

GW-1

GW-8

LFR-1

10" Diameter Cast Iron Sanitary Sewer

THE GLOVATORIUM

E-16

E-25

E-15

MH-5

B-8

E-17

E-18

B-2

B-10

B-9

B-1

SOMA-2

SOMA-3

E-20

B-7

E-19

SOMA-4

B-4

B-6

SOMA-5

B-5

B-3

B-13

E-21

54" Diameter Storm Drain

E-22

E-26

GW-2

LFR-2

E-23

SOMA-1

GW-4

E-24

RESIDENCES

MANILA AVENUE

RESIDENCE

PARKING

RESIDENCE

RESIDENCE

DRIVE

DRIVE

Earl Thompson

THE GLOVATORIUM

Inlet

GW-3

10" Storm Conduit

B-12

MH-4

GW-5A

B-11

GW-5

GW-7

LFR-4

Lamphole

GW-6A

GW-6

LFR-3

38TH ST

MH-2

BROADWAY

RED CROSS BUILDING

SOMA Monitoring Well

TOSCO Monitoring Well

Geosolv Monitoring Well

LFR Monitoring Wells

54" Diameter Storm Conduit

Storm Conduit Manhole

10" Diameter Cast Iron Sanitary Sewer w/ Floor Drains

Sanitary Sewer Manhole

USTs Owned by Earl Thompson

approximate scale in feet

0 40 80

Figure 1: Map showing the approximate locations of groundwater monitoring wells.

SOMA ENVIRONMENTAL ENGINEERING, INC.

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

SOMA Environmental Engineering Inc.
6620 Owens Dr.
Suite A
Pleasanton, CA 94588

Date: 27-DEC-05
Lab Job Number: 183733
Project ID: 2511
Location: 3815 Broadway, Oakland

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: _____
Project Manager

Reviewed by: _____
Operations Manager

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**183733**
Client:	**SOMA Environmental Engineering Inc.**
Project:	**2511**
Location:	**3815 Broadway, Oakland**
Request Date:	**12/09/05**
Samples Received:	**12/09/05**

This hardcopy data package contains sample and QC results for one water sample, requested for the above referenced project on 12/09/05. The sample was received intact at ambient temperature.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Dissolved Gases by GC/FID (RSK-175):
No analytical problems were encountered.

CHAIN OF CUSTODY

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

C&T LOGIN # 183733

Sampler: Brian Tims

Project No: 2511

Report To: Tony Perini

Project Name: 3815 Broadway, Oakland, CA

Company : SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Analyses

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Matrix: Water	Matrix: Waste	# of Containers	Preservative: HCL	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: ICE	TPHg (including Stoddard Solvent) 8260B	BTEX + MtBE 8260B	8260 (Full List)	Methane
-1	LFR-3	12/9 10:30		*		6-40ml VOAs	*			*	*	*	*	*

Notes: REC'D intact; ambient T

RELINQUISHED BY:	RECEIVED BY:
12/9/05 11:30 A.M. DATE/TIME	Lavanna Curtis 12/9/05 11:30 a.m. DATE/TIME
DATE/TIME	DATE/TIME
DATE/TIME	DATE/TIME

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Total Volatile Hydrocarbons

Lab #:	183733	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Field ID:	LFR-3	Batch#:	108578
Matrix:	Water	Sampled:	12/09/05
Units:	ug/L	Received:	12/09/05
Diln Fac:	1.000	Analyzed:	12/09/05

Type: SAMPLE Lab ID: 183733-001

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	62-141
Bromofluorobenzene (FID)	92	78-134

Type: BLANK Lab ID: QC320558

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	86	62-141
Bromofluorobenzene (FID)	89	78-134

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	183733	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC320560	Batch#:	108578
Matrix:	Water	Analyzed:	12/09/05
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,922	96	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	62-141
Bromofluorobenzene (FID)	99	78-134

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	183733	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Field ID:	LFR-3	Batch#:	108578
MSS Lab ID:	183733-001	Sampled:	12/09/05
Matrix:	Water	Received:	12/09/05
Units:	ug/L	Analyzed:	12/10/05
Diln Fac:	1.000		

Type: MS Lab ID: QC320575

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	21.18	2,000	1,844	91	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	116	62-141
Bromofluorobenzene (FID)	93	78-134

Type: MSD Lab ID: QC320576

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,690	83	80-120	9	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	62-141
Bromofluorobenzene (FID)	87	78-134

RPD= Relative Percent Difference

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Purgeable Organics by GC/MS

Lab #:	183733	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-3	Batch#:	108698
Lab ID:	183733-001	Sampled:	12/09/05
Matrix:	Water	Received:	12/09/05
Units:	ug/L	Analyzed:	12/14/05
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	183733	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-3	Batch#:	108698
Lab ID:	183733-001	Sampled:	12/09/05
Matrix:	Water	Received:	12/09/05
Units:	ug/L	Analyzed:	12/14/05
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-121
1,2-Dichloroethane-d4	110	80-125
Toluene-d8	97	80-120
Bromofluorobenzene	114	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	183733	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC321044	Batch#:	108698
Matrix:	Water	Analyzed:	12/14/05
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	183733	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC321044	Batch#:	108698
Matrix:	Water	Analyzed:	12/14/05
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-121
1,2-Dichloroethane-d4	110	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	113	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	183733	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	108698
Units:	ug/L	Analyzed:	12/14/05
Diln Fac:	1.000		

Type: BS Lab ID: QC321042

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.04	104	74-124
Benzene	25.00	25.32	101	80-120
Trichloroethene	25.00	26.90	108	79-120
Toluene	25.00	25.17	101	80-120
Chlorobenzene	25.00	25.45	102	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	105	80-125
Toluene-d8	99	80-120
Bromofluorobenzene	98	80-124

Type: BSD Lab ID: QC321043

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.73	99	74-124	5	20
Benzene	25.00	23.49	94	80-120	7	20
Trichloroethene	25.00	24.17	97	79-120	11	20
Toluene	25.00	24.11	96	80-120	4	20
Chlorobenzene	25.00	24.94	100	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-121
1,2-Dichloroethane-d4	100	80-125
Toluene-d8	102	80-120
Bromofluorobenzene	100	80-124

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Dissolved Gasses

Lab #:	183733	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2511	Analysis:	RSK-175
Field ID:	LFR-3	Batch#:	108657
Matrix:	Water	Sampled:	12/09/05
Units:	mg/L	Received:	12/09/05
Diln Fac:	1.000	Analyzed:	12/13/05

Type: SAMPLE Lab ID: 183733-001

Analyte	Result	RL
Methane	ND	0.0050
Ethene	ND	0.0050
Ethane	ND	0.0050

Type: BLANK Lab ID: QC320854

Analyte	Result	RL
Methane	ND	0.0050
Ethene	ND	0.0050
Ethane	ND	0.0050

ND= Not Detected
RL= Reporting Limit

5.0

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Gasses

Lab #:	183733	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2511	Analysis:	RSK-175
Matrix:	Water	Batch#:	108657
Units:	mg/L	Analyzed:	12/13/05
Diln Fac:	1.000		

Type: BS Lab ID: QC320855

Analyte	Spiked	Result	%REC	Limits
Methane	0.03272	0.03473	106	80-120
Ethene	0.05725	0.06334	111	80-120
Ethane	0.06135	0.06631	108	80-120

Type: BSD Lab ID: QC320856

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Methane	0.03272	0.03756	115	80-120	8	20
Ethene	0.05725	0.06868	120	80-120	8	20
Ethane	0.06135	0.07182	117	80-120	8	20

RPD= Relative Percent Difference