

August 10, 1993
864-17A

Mr. Charles W. Wren
U.S. POSTAL SERVICE
c/o DMJM
222 Kearny Street, Suite 500
San Francisco, California 94108

RE: PRELIMINARY RESULTS OF SOIL
VERIFICATION SAMPLES,
EMERYVILLE POSTAL FACILITY,
EMERYVILLE, CALIFORNIA

Dear Mr. Wren:

Attached are the laboratory results of our soil verification sampling for the referenced site. The results from the tank excavation near the center of the site and the excavation located near the southeast corner of the site are included.

Laboratory analysis of soil sample SS-1 collected directly below the removed underground tank detected diesel range hydrocarbons at 1,800 parts per million (ppm). To remove this impacted material, additional soil was excavated from around the tank. This excavation extended to ground water at a depth of approximately 6.0 feet.

Laboratory analyses of six soil samples collected from the sidewalls of the final excavation (Samples SS-3 through SS-8) detected only low levels of diesel range petroleum hydrocarbons. The highest concentration detected was 240 ppm in sample SS-8 located on the southwest wall of the excavation. The maximum hydrocarbon concentration detected in the other five sidewall samples collected was 14 ppm. In addition, analysis of three selected samples for BTEX compounds did not detect any of these fuel constituents. Copies of the laboratory reports are attached. Based on these findings, further soil excavation from the central tank area does not appear to be warranted, in our opinion.

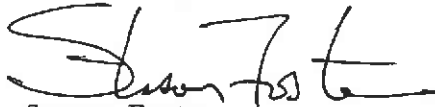
Laboratory analyses of five soil samples collected from the sidewalls and bottom of the excavation in the southeast site corner (Samples SE-1, 2, 3, 5, and 6) detected levels of total petroleum oil ranging from below detection limits to 4,400 ppm, with the highest level detected on the southern wall. The highest oil concentration detected in samples collected from the other sidewalls was 130 ppm (see attached analytical reports). This excavation was also extended to ground water. To remove the impacted soil along the southern sidewall, the excavation was extended to within approximately 1 foot of the southern property line. Two additional samples were collected after the extension of the excavation. Analysis of these samples detected petroleum oil in only one of the samples at 17,000 ppm. The excavation has been extended to very near the southern property boundary, along which lies the underground slurry wall constructed by Westinghouse. Therefore, the majority of impacted soil appears to have been removed and further excavation is not warranted or practical, in our opinion.

The analytical results discussed above as well as details regarding the tank removal and soil excavation work completed on-site will be compiled into a formal report which will be issued within approximately two weeks.

If you have any questions, please call.

Very truly yours,

LOWNEY ASSOCIATES



Stason Foster
Staff Environmental Engineer

RLH:SIF:TJR

Copies: Mr. Brian P. Oliva, REHS
ALAMEDA COUNTY, Department of Environmental Health,
Division of Hazardous Materials



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063-
(415) 364-9600 • FAX (415) 364-9233

Lowney Associates	Client Project ID: 864-17A	Sampled: Aug 2, 1993
405 Clyde Avenue	Sample Matrix: Soil	Received: Aug 2, 1993
Mountain View, CA 94043	Analysis Method: EPA 3550/8015	Reported: Aug 3, 1993
Attention: Peter Langtry	First Sample #: 3H01702	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 3H01702 SS-1	Sample I.D. 3H01703 SS-2	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.
Extractable Hydrocarbons	1.0	1,800	N.D.				

Chromatogram Pattern: Non-Diesel Mix C10-C15 ..

Quality Control Data

Report Limit		
Multiplication Factor:	100	100
Date Extracted:	8/2/93	8/2/93
Date Analyzed:	8/2/93	8/2/93
Instrument Identification:	GCHP-5	GCHP-5

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

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Maile A. Springer
Project Manager

3H01701.JML <5>



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Lowney Associates	Client Project ID: 884-17A	Sampled: Aug 2, 1993
405 Clyde Avenue	Sample Matrix: Soil	Received: Aug 2, 1993
Mountain View, CA 94043	Analysis Method: EPA 5030/8020	Reported: Aug 3, 1993
Attention: Peter Langtry	First Sample #: 3H01702	

BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 3H01702 SS-1	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.
Benzene	0.0050	N.D.					
Toluene	0.0050	N.D.					
Ethyl Benzene	0.0050	4.4					
Total Xylenes	0.0050	12					

Quality Control Data

Report Limit Multiplication Factor:	100
Date Analyzed:	8/3/93
Instrument Identification:	GCHP-18
Surrogate Recovery, %: (QC Limits = 70-130%)	169

Analytes reported as N.D. were not detected above the stated reporting limit.

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 Malle A. Springer
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3H01701.JVL <3>



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Lowney Associates	Client Project ID: 864-17A	Sampled: Aug 2, 1993
405 Clyde Avenue	Sample Matrix: Soil	Received: Aug 2, 1993
Mountain View, CA 94043	Analysis Method: EPA 5030/8015/8020	Reported: Aug 3, 1993
Attention: Peter Langtry	First Sample #: 3H01703	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 3H01703 SS-2	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.
Purgeable Hydrocarbons	1.0	N.D.					
Benzene	0.0050	N.D.					
Toluene	0.0050	N.D.					
Ethyl Benzene	0.0050	N.D.					
Total Xylenes	0.0050	N.D.					

Chromatogram Pattern: --

Quality Control Data

Report Limit	
Multiplication Factor:	1.0
Date Analyzed:	8/3/93
Instrument Identification:	GCHP-18
Surrogate Recovery, %: (QC Limits = 70-130%)	90

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
 Analytes reported as N.D. were not detected above the stated reporting limit.

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Lowney Associates
 405 Clyde Avenue
 Mountain View, CA 94043
 Attention: Peter Langtry

Client Project ID: 864-17A
 Matrix Descript: Soil
 Analysis Method: SM 5520 E&F (Gravimetric)
 First Sample #: 3H01702

Sampled: Aug 2, 1993
 Received: Aug 2, 1993
 Extracted: Aug 2, 1993
 Analyzed: Aug 2, 1993
 Reported: Aug 3, 1993

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg
3H01702	SS-1	N.D.
3H01703	SS-2	N.D.

Detection Limits:

50

Analytes reported as N.D. were not present above the stated limit of detection.

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Lowney Associates	Client Project ID: 864-17A	Sampled: Aug 2, 1993
405 Clyde Avenue	Sample Matrix: Soil	Received: Aug 2, 1993
Mountain View, CA 94043	Analysis Method: EPA 3550/8015	Reported: Aug 9, 1993
Attention: Stason Foster	First Sample #: 3H1-9101	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 3H1-9101 SS-3	Sample I.D. 3H19102 SS-4	Sample I.D. 3H19103 SS-5	Sample I.D.	Sample I.D.	Sample I.D.
Extractable Hydrocarbons	1.0	14	N.D.	N.D.			

Chromatogram Pattern: Non-Diesel Mix C14-C21 -- --

Quality Control Data

Report Limit			
Multiplication Factor:	1.0	1.0	1.0
Date Extracted:	8/6/93	8/6/93	8/6/93
Date Analyzed:	8/5/93	8/6/93	8/6/93
Instrument Identification:	GCHP-5	GCHP-5	GCHP-5

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

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Malle A. Springer
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Project Manager

3H1-9101.JVL <1>



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(415) 384-9600 • FAX (415) 364-9233

Lowney Associates	Client Project ID: 864-17A	Sampled: Aug 2, 1993
405 Clyde Avenue	Sample Matrix: Soil	Received: Aug 2, 1993
Mountain View, CA 94043	Analysis Method: EPA 5030/8020	Reported: Aug 9, 1993
Attention: Stason Foster	First Sample #: 3H19101	

BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 3H19101 SS-3	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.
Benzene	0.0050	N.D.					
Toluene	0.0050	N.D.					
Ethyl Benzene	0.0050	N.D.					
Total Xylenes	0.0050	N.D.					

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	8/6/93
Instrument Identification:	GCHP-18
Surrogate Recovery, %: (QC Limits = 70-130%)	96

Analytes reported as N.D. were not detected above the stated reporting limit.

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3H1-9101.JML <2>



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Lowney Associates	Client Project ID: 864-17A	Sampled: Aug 3, 1993
405 Clyde Avenue	Sample Matrix: Soil	Received: Aug 4, 1993
Mountain View, CA 94043	Analysis Method: EPA 5030/8020	Reported: Aug 9, 1993
Attention: Peter Langtry	First Sample #: 3H14701	

BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 3H14701 SS-6	Sample I.D. 3H14702 SS-7	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.
Benzene	0.0050	N.D.	N.D.				
Toluene	0.0050	N.D.	N.D.				
Ethyl Benzene	0.0050	N.D.	N.D.				
Total Xylenes	0.0050	N.D.	N.D.				

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	8/5/93	8/5/93
Instrument Identification:	GCHP-6	GCHP-6
Surrogate Recovery, %: (QC Limits = 70-130%)	102	108

Analytes reported as N.D. were not detected above the stated reporting limit.

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3H14701.JVL <1>



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Lowrey Associates	Client Project ID: 884-17A	Sampled: Aug 3, 1993
405 Clyde Avenue	Sample Matrix: Soil	Received: Aug 4, 1993
Mountain View, CA 94043	Analysis Method: EPA 8550/8015	Amended: Aug 10, 1993
Attention: Peter Langtry	First Sample #: 3H14701	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 3H14701 SS-6	Sample I.D. 3H14702 SS-7	Sample I.D. 3H14703 SS-8	Sample I.D.	Sample I.D.	Sample I.D.
Extractable Hydrocarbons	1.0	5.9	3.1	240			

Chromatogram Pattern:	Non-Diesel Mix > C11-C16	Non-Diesel Mix > C17	Non-Diesel Mix > C11-C16
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Quality Control Data

Report Limit			
Multiplication Factor:	1.0	20	1.0
Date Extracted:	8/5/93	8/5/93	8/5/93
Date Analyzed:	8/5/93	8/5/93	8/5/93
Instrument Identification:	GCHP-5	GCHP-5	GCHP-5

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

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3H14701.JNL <2>



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Lowney Associates 405 Clyde Avenue Mountain View, CA 94043 Attention: Peter Langtry	Client Project ID: 864-17A Matrix Descript: Soil Analysis Method: SM 5520 E&F (Gravimetric) First Sample #: 3GC9801	Sampled: Jul 26, 1993 Received: Jul 27, 1993 Extracted: Jul 30, 1993 Analyzed: Jul 30, 1993 Amended: Aug 9, 1993
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TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg
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3GC9801	SE-1	2,100
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3GC9802	SE-2	50
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3GC9803	SE-3	4,400
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← SE-1 Collected from
Bottom. Soil was
subsequently excavated
to ground water

← SE-3 Southbank wall
Also excavated

LOWNEY ASSOC.
AUG 9 1993
RECEIVED

Detection Limits:	50
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Analytes reported as N.D. were not present above the stated limit of detection.

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Project Manager



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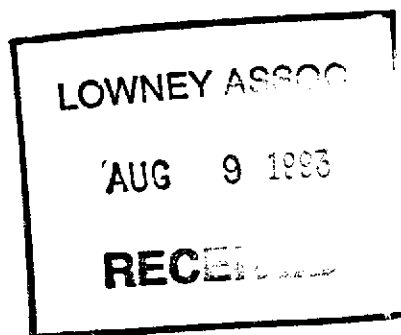
Lowney Associates
405 Clyde Avenue
Mountain View, CA 94043
Attention: Peter Langtry

Client Project ID: 864-17A
Matrix Descript: Soil
Analysis Method: SM 5520 E&F (Gravimetric)
First Sample #: 3GE1803

Sampled: Jul 27, 1993
Received: Jul 27, 1993
Extracted: Jul 30, 1993
Analyzed: Jul 30, 1993
Amended: Aug 9, 1993

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg
3GE1803	SE-5, Soil 4.0'	130
3GE1804	SE-6, Soil 3.5'	N.D.

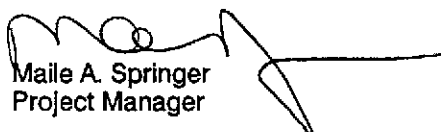


Detection Limits:

50

Analytes reported as N.D. were not present above the stated limit of detection.

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Maile A. Springer
Project Manager

3GE1803.JVL <1>



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680 Chesapeake Drive • Redwood City, CA 94063
(415) 384-9600 • FAX (415) 384-9233

Lowrey Associates	Client Project ID: 864-17A	Sampled: Aug 3, 1993
405 Clyde Avenue	Matrix Descript: Soil	Received: Aug 4, 1993
Mountain View, CA 94043	Analysis Method: SM 5520 E&F (Gravimetric)	Extracted: Aug 6, 1993
Attention: Stason Foster	First Sample #: 3H17801	Analyzed: Aug 9, 1993
		Reported: Aug 10, 1993

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg
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3H17801	SE-7	N.D.
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3H17802	SE-8	██████████
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} Final South Wall samples

Detection Limits: 50

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

M. A. Springer
Malle A. Springer
Project Manager

3H17801.JL <1>