



December 9, 1994

Ms. Juliet Shin
 Alameda County Health Care Services Agency
 Department of Environmental Health, Environmental Protection Division
 1131 Harbor Bay Pkwy., #250
 Alameda, California 94502-6577

94 DEC 21 PM 3:24
 HAZMAT

Re: **1901 Broadway, Alameda, CA**

Dear Ms. Shin:

We have received your letter dated December 2, 1994, addressed to Mrs. J.C. Delaney regarding required investigations associated with the former underground storage tank at 1901 Broadway, Alameda.

It appears that there is some confusion as to the tank removal and soil sampling activities. We hope the following summary will assist you.

On behalf of Mrs. Delaney, we have enclosed copies of manifests and laboratory reports as requested in your letter.

Tank Removal & Sampling Activities

On April 28, 1994, Subsurface Environmental Corp. removed one 550 gallon gasoline underground storage tank. (Your letter indicates a 1,000 gallon UST.) The tank was in good condition with no apparent holes. There was no visual contamination or odor in surrounding soil. A small puddle of water had gathered in the bottom of the excavation at the lowest point (approximately 6.5' below ground surface).

Immediately following the removal of the tank, two soil samples and one water sample were taken as directed by Mr. Larry Seto of the Alameda County Department of Environmental Health (ACDEH).

Sample #1901-001TF was taken from the fill end of the tank excavation at approximately 6' bgs. Sample #1901-003SP, a four point composite sample, was taken from the stockpile of excavated material. Sample #1901-002WS was taken from the puddle of water at approximately 6.5' bgs. All samples were taken in accordance with the San Francisco Tri-Regional Guidelines for Preliminary Investigations of Underground Tank Sites.

Analytical Results

The samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) with benzene, toluene, ethylbenzene, and xylenes (BTEX). The sample from the tank excavation indicated non-detect for all analytes. The sample taken from the stockpile of excavated material indicated TPHg at 3.7 parts per million (ppm), 0.015 ppm benzene, 0.078 ppm toluene, 0.042 ppm ethylbenzene, and 0.36 ppm xylenes. (Your letter indicates contamination in the tank excavation; you have mistaken the stockpile sample as the tank excavation sample.) The sample taken from the puddle of water indicated TPHg at 4,800 parts per billion (ppb), 640 ppb benzene, 700 ppb toluene, 76 ppb ethylbenzene and 550 ppb xylenes.

Action Required

The analytical results were submitted to Mr. Seto for review and determination of remedial work to be performed. He requested that groundwater be purged from the tank excavation, allowed to recharge, and then analyzed. In addition to analyses for TPHg and BTEX, he also requested lead analysis. He did not require any over-excavation of the tank hole or disposal of the hydrocarbon impacted stockpile offsite.

Remedial Work & Sampling Activities

On June 13, 1994, Subsurface mobilized to the subject site to purge groundwater from the tank excavation and take the groundwater sample. Approximately 225 gallons of water was pumped from the excavation and transported by American Valley Environmental Services to Petroleum Recycling Corporation in Patterson, CA under Uniform Hazardous Waste Manifest #92203511.

Groundwater had recharged to approximately 5.5' bgs. A PVC bailer was lowered into the excavation and the groundwater sample was collected. The sample is identified as Sample #1901-004WS.

Secondary Analytical Results

The water sample was analyzed for TPHg, with BTEX and lead as required by ACDEH. Sample results indicated non-detect for all analytes.


Conclusions & Recommendations

The certified laboratory reports were submitted to Mr. Seto. He said that no remedial work would be required and to backfill the excavation.

On July 20, 1994, the excavation was backfilled and the area was resurfaced with asphalt.

We hope this clarifies work performed at the subject site. If you have any questions or require further information, please do not hesitate to call.

Sincerely,



Roxanne Harris

**Attachments: McCampbell Analytical Laboratory Report May 6, 1994.
McCampbell Analytical Laboratory Report June 20, 1994.
American Valley Environmental Services Manifest #92203511
Tank Disposal Uniform Hazardous Waste Manifest #9315844
Tank Certificate of Destruction
Soil Sampling Map**

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

05/06/94

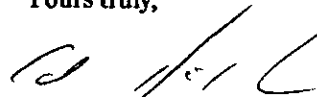
Dear Roxanne:

Enclosed are:

- 1). the results of 3 samples from your # 94149; 1901 Broadway project,
- 2). a QC report for the above samples *Alameda*
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,



Edward Hamilton

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/29/94

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	87.5	84.9	100	87.5	84.9	3.0
Benzene	0	10.7	10.3	10	107.0	103.0	3.8
Toluene	0	10.5	10.2	10	105.0	102.0	2.9
Ethyl Benzene	0	10.7	10.3	10	107.0	103.0	3.8
Xylenes	0	32.7	31.7	30	109.0	105.7	3.1
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil & grease)	0	40300	40200	41000	98	98	0.2

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/03-05/04/94

Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.000	2.090	2.136	2.03	103	105	2.2
Benzene	0.000	0.174	0.178	0.2	87	89	2.3
Toluene	0.000	0.172	0.180	0.2	86	90	4.5
Ethylbenzene	0.000	0.174	0.178	0.2	87	89	2.3
Xylenes	0.000	0.558	0.574	0.6	93	96	2.8
TPH (diesel)	0	337	333	300	112	111	1.1
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

SUBSURFACE ENVIRONMENTAL CORP.

11072 San Pablo Ave., Suite 315, El Cerrito, CA 94530
 Tele: (510) 215-6553 • Fax: (510) 234-7521

CHAIN OF CUSTODY RECORD

ANALYSIS REQUEST

Owner: DELANOY

Sampler: ROXANNE HARRIS

Address: _____

Sampler Signature: 

Phn: _____ Fax: _____

TURN AROUND TIME: 5 DAY

Project Location: 1901 BROADWAY


Project #: 94149

Bill To: SUBSURFACE

BTEX & TPH as Gasoline	TPH as Diesel	Total Petroleum Oil & Grease	Total Petroleum Hydrocarbons	Lead STLC	PCI	Other
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Laboratory Number	Sample ID Number	Sampling		# of Containers	Type Containers	Matrix				Method Preserved			FIELD REMARKS:	BTEX & TPH as Gasoline	TPH as Diesel	Total Petroleum Oil & Grease	Total Petroleum Hydrocarbons	Lead STLC	PCI	Other	
		Date	Time			Water	Soil	Sludge	Other	HCL	HNO3	ICE									
	1901-001TF	4/28/94	11:25	1	ST		✓					✓	TANK HOLE FILLED SOUTH SIDE @ 6'	✓							35379
	1901-002WS	4/28/94	11:30	1	AB	✓						✓	WATER SAMPLE FROM LOW PT IN HOLE @ 6.5'	✓							35380
	1901-003SP	4/28/94	11:35	4	ST	✓						✓	STOCKPILE 4 PT COMP.	✓							35381

ICE? PRESERVATIVE
 GOOD CONDITION APPROPRIATE
 HEAD SPACE ABSENT CONTAINERS

RELINQUISHED BY: 	Date	Time	RECEIVED BY: <u>Mirel Serban</u>
RELINQUISHED BY: <u>Mirel Serban</u>	4/29/94	9:05	RECEIVED BY: <u>Hadi Raza</u>
RELINQUISHED BY: _____	Date	Time	RECEIVED BY: _____

NOTES: MAY NEED LEAD ANALYSIS. PLEASE CONFIRM

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

06/20/94

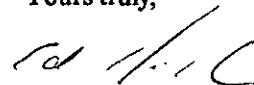
Dear Roxanne:

Enclosed are:

- 1). the results of 1 samples from your # 94149; 1901 Broadway project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,



Edward Hamilton

Subsurface Environmental 11072 San Pablo Ave, # 315 El Cerrito, CA 94530	Client Project ID: # 94149; 1901 Broadway	Date Sampled: 06/13/94
		Date Received: 06/14/94
	Client Contact: Roxanne Harris	Date Extracted: 06/14/94
	Client P.O:	Date Analyzed: 06/14/94

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*
 EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
35967	1901-004WS	W	ND	ND	ND	ND	ND	97
Detection Limit unless otherwise stated; ND means Not Detected	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.005	0.005	0.005	0.005	0.005	

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L
 # cluttered chromatogram; sample peak co-elutes with surrogate peak
 + The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds are significant; no recognizable pattern; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible phase is present.

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
 Tele: 510-798-1620 Fax: 510-798-1622

Subsurface Environmental 11072 San Pablo Ave, # 315 El Cerrito, CA 94530	Client Project ID: # 94149; 1901 Broadway	Date Sampled: 06/13/94
		Date Received: 06/14/94
	Client Contact: Roxanne Harris	Date Extracted: 06/19/94
	Client P.O:	Date Analyzed: 06/19/94

Lead*

EPA analytical method 239.2 or 7420[†]

Lab ID	Client ID	Matrix	Extraction [°]	Lead*
35967	1901-004WS	W	TTLC	ND < 0.05
Detection Limit unless otherwise stated, ND means Not Detected	W	TTLC	0.005mg/L	
	S	TTLC	4.0 mg/kg	
	---	STLC,TCLP	0.20 mg/L	

[°] soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L
[†] Lead is analysed using EPA method 7420 (AA Flame) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples
[°] EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

QC REPORT FOR HYDROCARBON ANALYSES

Date: 06/14/94

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	92.2	95.1	100	92.2	95.1	3.0
Benzene	0	9.5	9.4	10	95.0	94.0	1.1
Toluene	0	9.5	9.4	10	95.0	94.0	1.1
Ethyl Benzene	0	9.9	9.8	10	99.0	98.0	1.0
Xylenes	0	29.9	29.9	30	99.7	99.7	0.0
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

QC REPORT FOR AA METALS

Date: 06/19/94

Matrix: Water

Analyte	Concentration (mg/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
Total Lead	0.00	9.71	9.61	10.00	97	96	1.0
Total Cadmium	0.00	10.15	9.89	10.00	102	99	2.6
Total Chromium	0.00	9.98	9.88	10.00	100	99	1.0
Total Nickel	0.00	10.00	9.81	10.00	100	98	1.9
Total Zinc	0.00	9.83	9.78	10.00	98	98	0.5
STLC/TCLP Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

2479 ASE41

SUBSURFACE ENVIRONMENTAL CORP.
 11072 San Pablo Ave., Suite 316, El Cerrito, CA 94530
 Tel: (810) 215-6553 • Fax: (510) 234-7521

CHAIN OF CUSTODY RECORD

Owner: DELANOY
 Address: _____
 Phn: _____ Fax: _____
 Project Location: 1901 BROADWAY
 Project #: 74149
 BIR To: SUBSURFACE

Sampler: ROXANNE HARRIS
 Sampler Signature: _____
 TURN AROUND TIME: 5 DAY 24 HOUR

ANALYSIS REQUEST

BOEX & TPH as Gasoline	TPH as Diesel	Total Petroleum Oil & Grease	Total Petroleum Hydrocarbons	Lead & PCB. <u>PL 6-14-94</u>	ACI	Other:
<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			

Laboratory Number	Sample ID Number	Sampling		# of Containers	Type Containers	Matrix				Method Preserved			FIELD REMARKS:
		Date	Time			Water	Soil	Sediment	Other	HCL	NO2	ICE	
	1901-004W5	4/13/94	15:45	3	V	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		WATER SAMPLE AFTER HOLE PURGED

35967
 VOAS O & G MEALS OTHER

ICE?
 GOOD CONDITION
 HEAD SPACE ABSENT
 PRESERVATIVE APPROPRIATE
 CONTAINERS

RELINQUISHED BY: _____	Date: _____	Time: _____	RECEIVED BY: _____
RELINQUISHED BY: _____	Date: _____	Time: _____	RECEIVED BY: _____
RELINQUISHED BY: _____	Date: _____	Time: _____	RECEIVED BY: _____

NOTES: WATER LEVEL 19 5' 5"
Costa arrived sealed w/ cap. 5/4
collected.

**AMERICAN VALLEY
ENVIRONMENTAL SERVICES, INC.**

2930 Geer Road Suite 156
TURLOCK, CALIFORNIA 95382
E.P.A. #CAL000121154
1 800-732-4645

CUSTOMER'S ORDER NO.		PHONE	DATE															
		415 863-8160	6-9-94															
NAME <i>Subsurface Environmental</i>																		
ADDRESS																		
<table border="1"> <tr> <th>SOLD BY</th> <th>CASH</th> <th>C.O.D.</th> <th>CHARGE</th> <th>ON ACCT.</th> <th>MOSE. RET'D.</th> <th>PAID OUT</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MOSE. RET'D.	PAID OUT							
SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MOSE. RET'D.	PAID OUT												
QTY.	DESCRIPTION				PRICE	AMOUNT												
<i>225</i>	Waste Oil				<i>1.00</i>	<i>225.00</i>												
	Waste Water & Oil																	
	Waste Coolant & Oil																	
<i>2</i>	Rinsate				<i>55.00</i>	<i>110.00</i>												
	Time																	
	Test, P P M																	
	Manifest # <i>92203511</i>																	
	<i>ALCOA BLDG INTLS</i>																	
	Ship To Petroleum Recycling Corporation P.O. Box 1167 Turlock, California 95382 Tel: (209) 83166728				TAX													
RECEIVED BY <i>Robert by Bill</i>					TOTAL	<i>335.00</i>												

5066

All claims and returned goods
MUST be accompanied by this bill.

Thank You

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA, CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA100007116808		Manifest Document No. 01015012		2. Page 1 of 3		Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address Mrs. J.C. Delaney 21 Duke Rancho Mirage CA 92270						A. State Manifest Document Number 93158444				
4. Generator's Phone 610-834-3311						B. State Generator's ID				
5. Transporter 1 Company Name Lexanna, Ltd.				6. US EPA ID Number CA1932438501		C. State Transporter's ID 428261				
7. Transporter 2 Company Name						D. Transporter's Phone (510) 687-1292				
9. Designated Facility Name and Site Address Erickson, Inc. 255 Parr Blvd. Richmond, CA 94801						10. US EPA ID Number CA1009466392		E. State Transporter's ID		
						F. Transporter's Phone				
						G. State Facility's ID				
						H. Facility's Phone (510) 235-1393				
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)					12. Containers		13. Total Quantity	14. Unit Wt/Vol	I. Waste Number	
					No	Type			State	EPA/Other
a. Waste Empty Storage Tank NON-RCRA Hazardous Waste Solid					0011	TIP	010550	P	512	NONE
b.										
c.										
d.										
J. Additional Descriptions for Materials Listed Above One (1) empty storage tank #13555 has been inerted with 15 lbs. of dry ice per 1000 gallons of capacity.						K. Handling Codes for Wastes Listed Above				
						a.				
						b.				
						c.				
						d.				
15. Special Handling Instructions and Additional Information Keep away from sources of ignition. Always wear hardhats when working with UST's. 24 Hr. Contact: Roxanne Harris Telephone: (510) 215-6563 Site Location: 1901 Broadway, Alameda										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										
Printed/Typed Name ROXANNE HARRIS AGENT FOR GENERATOR				Signature <i>[Signature]</i>				Month Day Year 04 28 94		
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name L. F. DeKalb				Signature <i>[Signature]</i>				Month Day Year 04 28 94		
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature				Month Day Year		
19. Discrepancy Indication Space										
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 Printed/Typed Name										
				Signature				Month Day Year		

DO NOT WRITE BELOW THIS LINE.

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE

NO. 18801

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

CUSTOMER SUBSURFACE
JOB NO. 84671

FOR: Erickson, Inc. TANK NO. 13555

LOCATION: Richmond DATE: 05/02/94 TIME: 10:49:11

TEST METHOD Visual Gastech/1314 SMPN LAST PRODUCT D

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 550 Gallon Tank CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1%
"ERICKSON INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN
CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS
WASTE FACILITY."
ERICKSON INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK
SHIPPED TO US FOR PROCESSING.

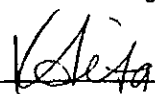

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

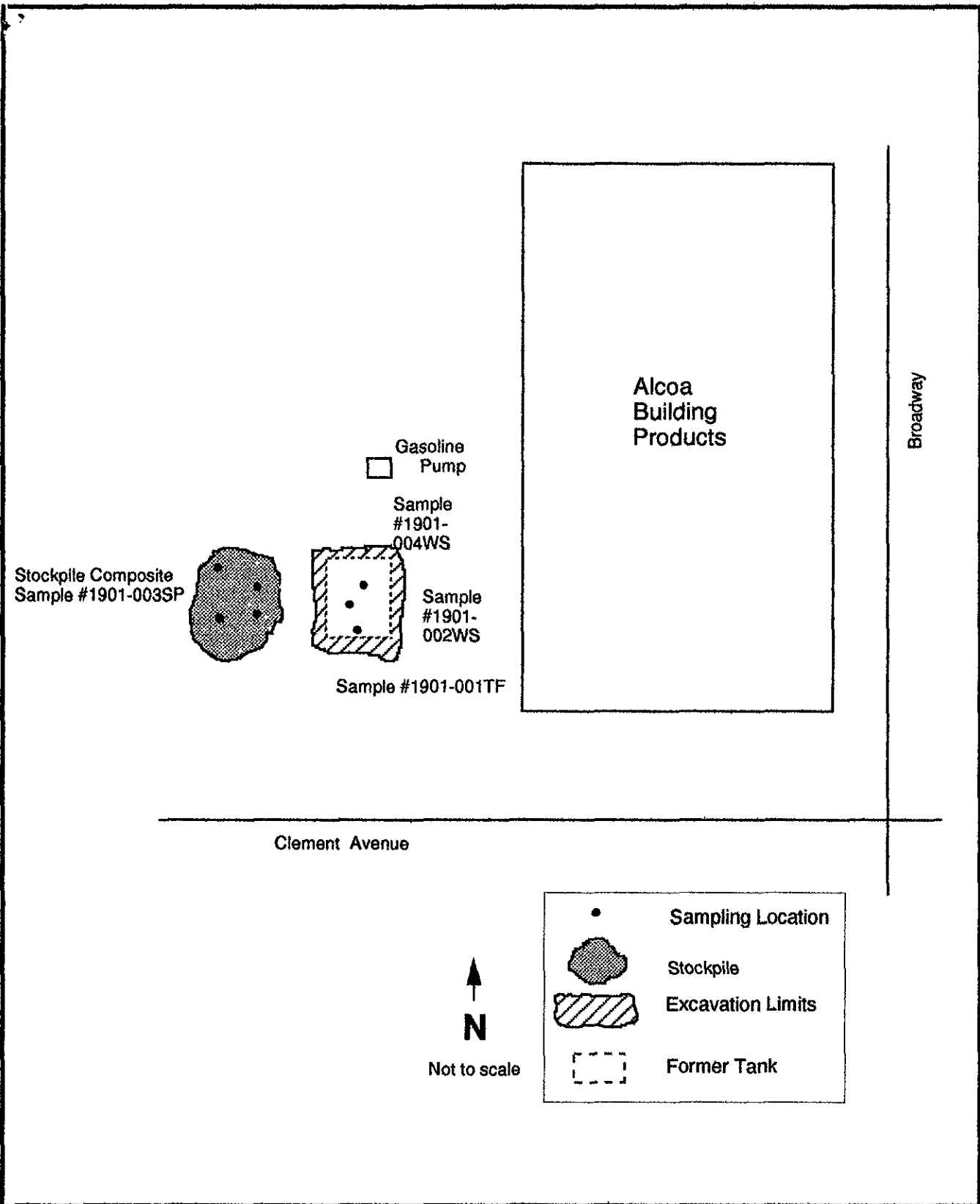
STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

REPRESENTATIVE  TITLE _____ INSPECTOR 



**SUBSURFACE
ENVIRONMENTAL CORP.
PROJECT #94149**

**FORMER CAMISA ROOFING
1901 Broadway
Alameda, CA 94501**

**UNDERGROUND
STORAGE TANK
SOIL SAMPLING MAP**