





April 29, 1993 SCI 827.001

Ms. Eva Chu Alameda County Health Care Services Agency Department of Environmental Health 80 Swan Way, Room 200 Oakland, California 94621

Analytical Test Results Preliminary Fuel Oil Contamination Assessment 4629 Martin Luther King, Jr. Way Oakland, California 94609

Dear Ms. Chu:

Presented herein are the results of the preliminary soil contamination assessment conducted by Subsurface Consultants, Inc. (SCI) for the referenced site. On March 10, 1993, three test borings were drilled to depths of about 25 feet at the locations shown on Plate 1. Selected soil samples were analyzed for total extractable hydrocarbons (TEH) and oil and grease (O&G). The analytical results are summarized on Plate 2. Analytical test reports are attached.

Diesel and oil and grease were detected in the soil below the previous fuel oil tanks at concentrations up to 1700 and 760 mg/kg, respectively. Hydrocarbons were detected in soil at depths up to 25 feet. Based on the results, we propose to perform additional investigation to define the lateral and vertical extent of soil contamination. During this next phase of study, five (5) test borings will be drilled to depths of 30 feet at the locations shown on Plate 1. The borings will be drilled in the manner described in the work plan (dated March 4, 1993) submitted to you previously. The results of our investigation efforts will be recorded in a report at the completion of the next phase of study.



■ Subsurface Consultants, Inc.

Ms. Eva Chu Alameda County Health Care Services Agency SCI 827.001 April 29, 1993 Page 2

We look forward to your favorable response to our proposal. If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.

James P. Bowers

Geofechnical Engineer 157 (expires 3/31/96)

MK:JPB:egh

cc: Ms. Lynn Nightingale c/o Miller & Miller

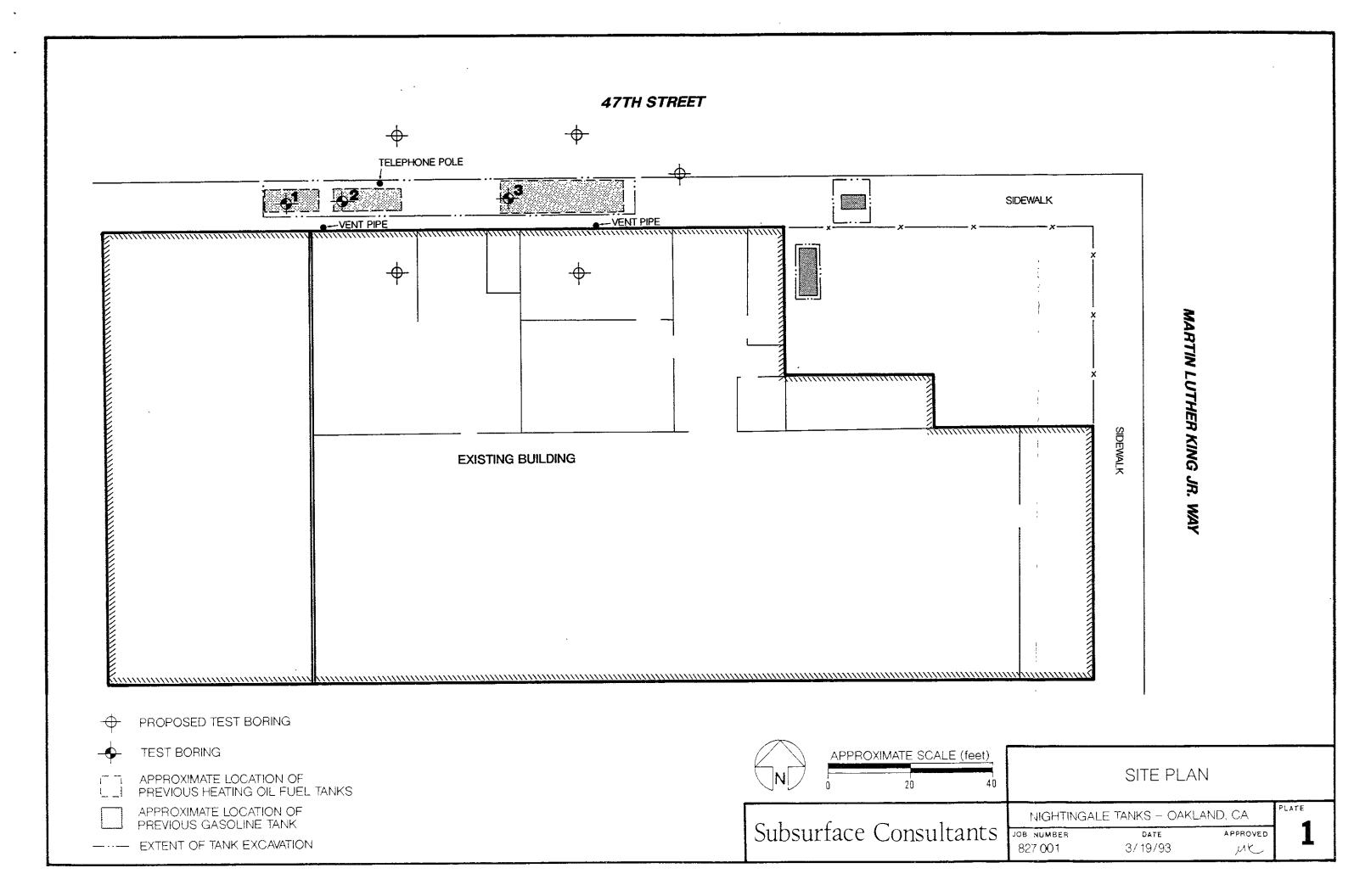
Mr. Richard Hiett

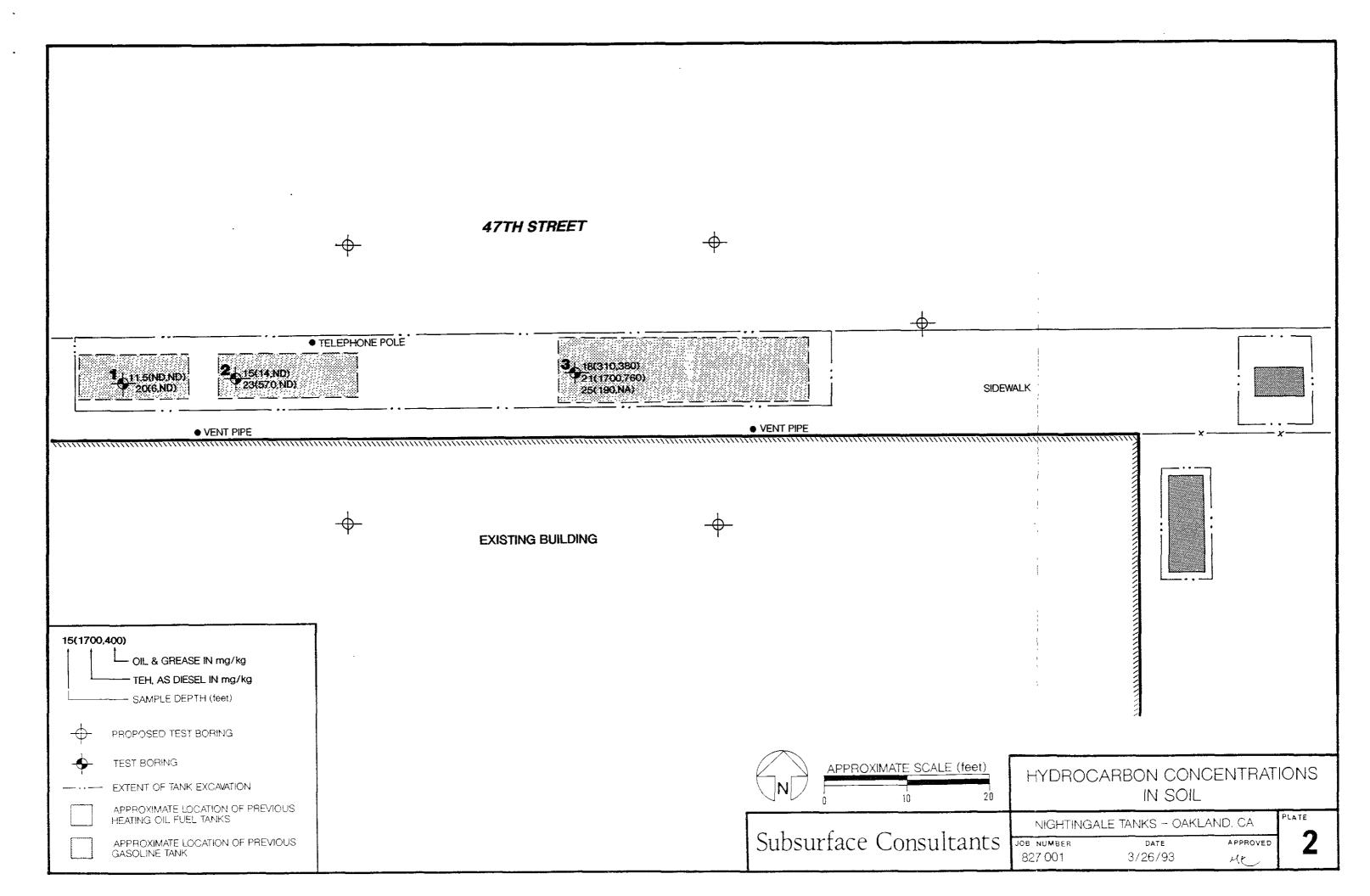
Regional Water Quality Control Board

Attachments: Plate 1 - Site Plan

Plate 2 - Hydrocarbon Concentrations in Soil

Analytical Test Reports





DATE RECEIVED: 03/12/93
DATE REPORTED: 03/19/93

LABORATORY NUMBER: 110314

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 827.001

LOCATION: 4629 MLK JR WAY

RESULTS: SEE ATTACHED

Reviewed

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Berkeley Los Angeles



Client: Subsurface Consultants Laboratory Login Number: 110314

Project Name: 4629 MLK Jr. Way

Project Number: 827.001

Report Date: 19 March 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) METHOD: SMWW 17:5520EF

ab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
10314-001	1 0 11.5	Soil	10-MAR-93	12-MAR-93	17-MAR-93		mg/Kg	50	TR	8602
10314-002	1 a 20	Soil	10-MAR-93	12-MAR-93	17-MAR-93	ND	mg/Kg	50	TR	8602
10314-003	2 a 15	Soil	10-MAR-93	12-MAR-93	17-MAR-93	ND	mg/Kg	50	TR	860
10314-004	2 a 23	Soil	10-MAR-93	12-MAR-93	17-MAR-93	ND	mg/Kg	50	TR	860
10314-005	3 a 18	Soil	10-MAR-93	12-MAR-93	17-MAR-93	380	mg/Kg	50	TR	860
10314-006	<b>3 a 21</b>	Soil	10-MAR-93	12-MAR-93	17-MAR-93	760	mg/Kg	50	TR	860



#### QC Batch Report

Client:

Subsurface Consultants

Laboratory Login Number: 110314 Report Date:

Project Name: 4629 MLK Jr. Way

19 March 93

Project Number: 827.001

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) QC Batch Number:

8602

Blank Results

Sample ID Result MDL Units

Method

Date Analyzed

BLANK

ND

50 mg/Kg

SMWW 17:5520EF

17-MAR-93

Spike/Duplicate Results

Sample ID Recovery

Method

Date Analyzed

BS

96%

SMWW 17:5520EF

17-MAR-93

87%

SMWW 17:5520EF

17-MAR-93

BSD

Control Limits

Average Spike Recovery Relative Percent Difference

91% 10.0%

80% - 120% < 20%



LABORATORY NUMBER: 110314

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 827.001

LOCATION: 4629 MLK JR WAY

DATE SAMPLED: 03/10/93 DATE RECEIVED: 03/12/93

DATE EXTRACTED: 03/15/93 DATE ANALYZED: 03/16/93 DATE REPORTED: 03/19/93

# Extractable Petroleum Hydrocarbons in Soils & Wastes California DOHS Method LUFT Manual October 1989

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
110314-1	1@11.5	**	ND	1
110314-2	1020	**	6	1
110314-3	2015	**	1.4	1
110314-4	2023	**	570	10
110314-5	3018	**	310	10
110314-6	3021	**	1,700	10

ND = Not Detected at or above reporting limit.

- \* Reporting limit applies to all analytes.
- \*\*Kerosene range not reported due to overlap of hydrocarbon ranges.

#### QA/QC SUMMARY

RPD, %	1
RECOVERY, %	116
	=======================================



### Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 9471O, Phone (415) 486-0900

DATE RECEIVED: 03/22/93 DATE REPORTED: 03/24/93

LABORATORY NUMBER: 110408

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 827.001

LOCATION: 4629 MARTIN LUTHER KING JR. WAY

RESULTS: SEE ATTACHED

Reviewed by

Reviewed by

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Berkeley Wilmington Los Angeles



LABORATORY NUMBER: 110408

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 827.001

LOCATION: 4629 MARTIN LUTHER KING JR. WAY

DATE SAMPLED: 03/10/93
DATE RECEIVED: 03/22/93
DATE EXTRACTED: 03/22/93
DATE ANALYZED: 03/24/93
DATE REPORTED: 03/24/93

## Extractable Petroleum Hydrocarbons in Soils & Wastes California DOHS Method LUFT Manual October 1989

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
110408-1	3 @ 25	**	190	1

\*\* Quantitated as diesel range due to overlap in hydrocarbon ranges.

ND = Not Detected at or above reporting limit.

\* Reporting limit applies to all analytes.

QA/QC SUMMARY: Laboratory Control Sample

RECOVERY, %

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