

May 24, 1990

Fuel Systems Consulting

Underground Storage
Tank Management
Programs

Fuel Systems
Construction and
Service

General Contracting
and Complete
Build-Up

Site Remedial Action

The Good Earth
Machine™

Alameda County Health Agency
80 Swan Way, Room 200
Oakland, CA 94621
Mr. Larry Seto

Dear Larry,

Enclosed are the sample analyses and a work plan for the Firestone Tire & Rubber Company facility at 969 San Pablo, in Albany, California.

WORK PLAN

Ryan-Murphy Incorporated proposes to remove additional soil from the walls and floor of the excavation. A Foxboro Model 128 Organic Vapor Analyzer will be used to determine the vertical and lateral extent of contamination. Once it has been determined that all of the contaminated soil has been removed, samples will be collected from the floor and four walls of the excavation. These samples will be submitted to FGL Environmental for analyses. Please advise as to which EPA methods you want used in these analyses. Ryan-Murphy Incorporated has scheduled this work for the second week in June. If you have any questions, please feel free to call me.

Sincerely,

RYAN-MURPHY INCORPORATED



Richard J. Dow
Senior Project Manager

RJD/gq
Enclosures

5867 Broadway
Denver, Colorado 80216
(303) 293-Fuel (3835)
Fax (303) 296-7911

211 Granite, Suite E
Corona, California 91719
(714) 279-6210
Fax (714) 279-6215

ANALYTICAL CHEMISTS

May 16, 1990

Lab No. 30899-1
Acct No. 03-9254
Ryan Murphy Inc.
5351 Lincoln
Denver, CO 80216

Sample Description: N. End of Tank
Sampled by: Rick Dow
Date Sampled: 05/03/90
Date Received: 05/08/90

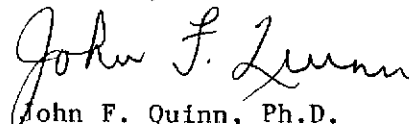
PURGEABLE AROMATICS - EPA METHOD 8020

<u>Parameter</u>	<u>Test Results</u> ug/kg	<u>Detection</u> <u>Limit</u> ug/kg
Benzene	16.1	5
Toluene	ND	5
Total Xylenes	5.1	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
1,2-Dichlorobenzene	ND	5
1,3-Dichlorobenzene	ND	5
1,4-Dichlorobenzene	ND	5

ND = Not detected at or above the concentration of the detection limit.

ug/kg = ppb

Sincerely,


John F. Quinn, Ph.D.
Laboratory Director

JFQ: sjb

ANALYTICAL CHEMISTS

May 16, 1990

Lab No. 30899-2
Acct No. 03-9254
Ryan Murphy, Inc.
5351 Lincoln
Denver, CO 80216

Sample Description: S. End of Tank
Sampled by: Rick Dow
Date Sampled: 05/03/90
Date Received: 05/08/90

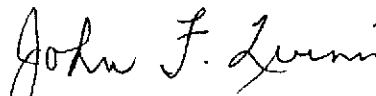
PURGEABLE AROMATICS - EPA METHOD 8020

<u>Parameter</u>	<u>Test Results</u> <u>ug/kg</u>	<u>Detection</u> <u>Limit</u> <u>ug/kg</u>
Benzene	150	5
Toluene	770	5
Total Xylenes	8590	5
Chlorobenzene	ND	5
Ethylbenzene	820	5
1,2-Dichlorobenzene	ND	5
1,3-Dichlorobenzene	ND	5
1,4-Dichlorobenzene	ND	5

ND = Not detected at or above the
concentration of the detection limit.

ug/kg = ppb

Sincerely,



John F. Quinn, Ph.D.
Laboratory Director

JFQ: sjb

ANALYTICAL CHEMISTS

May 16, 1990

Lab No. 30899-3
Acct No. 03-9254
Ryan Murphy, Inc.
5351 Lincoln
Denver, CO 80216

Sample Description: N. Wall of Exc.
Sampled by: Rick Dow
Date Sampled: 05/03/90
Date Received: 05/08/90

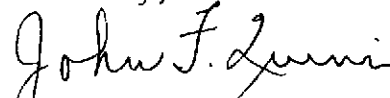
PURGEABLE AROMATICS - EPA METHOD 8020

<u>Parameter</u>	<u>Test Results</u> <u>ug/kg</u>	<u>Detection</u> <u>Limit</u> <u>ug/kg</u>
Benzene	2300	5
Toluene	4460	5
Total Xylenes	16900	5
Chlorobenzene	ND	5
Ethylbenzene	3250	5
1,2-Dichlorobenzene	ND	5
1,3-Dichlorobenzene	ND	5
1,4-Dichlorobenzene	ND	5

ND = Not detected at or above the
concentration of the detection limit.

ug/kg = ppb

Sincerely,



John F. Quinn, Ph.D.
Laboratory Director

JFQ: sjb

ANALYTICAL CHEMISTS

May 16, 1990

Lab #: 30899-1
 Acct #: 03-9254
 Ryan-Murphy, Inc.
 5351 Lincoln
 Denver, CO 80216

Sample Description: N. End of Tank
 Sampled by: Rick Dow
 Date Sampled: 05/03/90

Chlorinated Hydrocarbons EPA Method 8010

Compound	ug/kg	Detection Limit mg/kg	Compound	ug/kg	Detection Limit mg/kg
Benzyl chloride	ND	0.5	Dichlorodifluoromethane	ND	0.5
Bis(2-chloroisopropyl)ether	ND	0.5	1,1-Dichloroethane	15.6	0.5
Bromobenzene	ND	0.5	1,2-Dichloroethane	0.7	0.5
Bromodichloromethane	ND	0.5	1,1-Dichloroethylene	ND	0.5
Bromoform	ND	0.5	trans-1,2-Dichloroethylene	ND	0.5
Bromomethane	ND	0.5	Dichloromethane	ND	0.5
Carbon tetrachloride	ND	0.5	1,2-Dichloropropane	ND	0.5
Chlorobenzene	ND	0.5	cis-1,3-Dichloropropylene	ND	0.5
Chloroethane	ND	0.5	trans-1,3-Dichloropropylene	ND	0.5
Chloroform	ND	0.5	1,1,2,2-Tetrachloroethane	ND	0.5
1-Chlorohexane	ND	0.5	1,1,1,2-Tetrachloroethane	ND	0.5
2-Chloroethyl vinyl ether	ND	0.5	Tetrachloroethylene	1.2	0.5
Chloromethane	ND	0.5	1,1,1-Trichloroethane	ND	0.5
Chlorotoluene	ND	0.5	1,1,2-Trichloroethane	ND	0.5
Dibromochloromethane	ND	0.5	Trichloroethylene	ND	0.5
Dibromomethane	ND	0.5	Trichlorofluoromethane	ND	0.5
1,2-Dichlorobenzene	ND	0.5	Trichloropropane	ND	0.5
1,3-Dichlorobenzene	ND	0.5	Vinyl chloride	ND	0.5
1,4-Dichlorobenzene	ND	0.5			

ND = Not detected at or above the concentration of the detection limit.

ug/kg = ppb

If there are questions, please call or write.

John F. Quinn
 John F. Quinn, Ph.D.
 Laboratory Director

Tie Kang Huang
 Tie Kang Huang
 Chemist

JFQ: sib

MAIN OFFICE - 853 CORPORATION STREET - P.O. BOX 272
 & LABORATORY SANTA PAULA, CALIFORNIA 93060-0272
 (805) 525-3824 -- (805) 659-0910
 FAX (805) 525-4172

BRANCH OFFICE - 2500 STAGECOACH ROAD
 & LABORATORY STOCKTON, CALIFORNIA 95205
 (209) 942-0181
 FAX (209) 942-0423

FGL ENVIRONMENTAL

RECEIVED MAY 22 1990

ANALYTICAL CHEMISTS

May 16, 1990

Lab #: 30899-2
Acct #: 03-9254
Ryan Murphy, Inc.
5351 Lincoln
Denver, CO 80216

Sample Description: S. End of Tank
Sampled by: Rick Dow
Date Sampled: 05/03/90

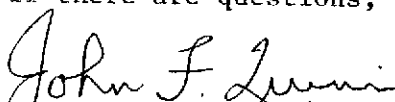
Chlorinated Hydrocarbons EPA Method 8010


<u>Compound</u>	<u>ug/kg</u>	<u>Detection</u> <u>Limit mg/kg</u>		<u>ug/kg</u>	<u>Detection</u> <u>Limit mg/k</u>
Benzyl chloride	ND	0.5	Dichlorodifluoromethane	ND	0.5
Bis(2-chloroisopropyl)ether	ND	0.5	1,1-Dichloroethane	3.8	0.5
Bromobenzene	ND	0.5	1,2-Dichloroethane	ND	0.5
Bromodichloromethane	ND	0.5	1,1-Dichloroethylene	ND	0.5
Bromoform	ND	0.5	trans-1,2-Dichloroethylene	ND	0.5
Bromomethane	ND	0.5	Dichloromethane	ND	0.5
Carbon tetrachloride	ND	0.5	1,2-Dichloropropane	ND	0.5
Chlorobenzene	ND	0.5	cis-1,3-Dichloropropylene	ND	0.5
Chloroethane	ND	0.5	trans-1,3-Dichloropropylene	ND	0.5
Chloroform	ND	0.5	1,1,2,2-Tetrachloroethane	ND	0.5
1-Chlorohexane	ND	0.5	1,1,1,2-Tetrachloroethane	ND	0.5
2-Chloroethyl vinyl ether	ND	0.5	Tetrachloroethylene	1830	0.5
Chloromethane	ND	0.5	1,1,1-Trichloroethane	900	0.5
Chlorotoluene	ND	0.5	1,1,2-Trichloroethane	ND	0.5
Dibromochloromethane	ND	0.5	Trichloroethylene	ND	0.5
Dibromomethane	ND	0.5	Trichlorofluoromethane	ND	0.5
1,2-Dichlorobenzene	ND	0.5	Trichloropropane	ND	0.5
1,3-Dichlorobenzene	ND	0.5	Vinyl chloride	ND	0.5
1,4-Dichlorobenzene	ND	0.5			

ND = Not detected at or above the concentration of the detection limit.

ug/kg = ppb

If there are questions, please call or write.


John F. Quinn, Ph.D.
Laboratory Director


Tie Kang Huang
Chemist

JFQ: sib

MAIN OFFICE - 853 CORPORATION STREET - P.O. BOX 272
& LABORATORY SANTA PAULA, CALIFORNIA 93060-0272
(805) 525-3824 -- (805) 659-0910
FAX (805) 525-4172

BRANCH OFFICE - 2500 STAGECOACH ROAD
& LABORATORY STOCKTON, CALIFORNIA 95205
(209) 942-0181
FAX (209) 942-0423

ANALYTICAL CHEMISTS

May 16, 1990

Lab #: 30899-3
 Acct #: 03-9254
 Ryan Murphy, Inc.
 5351 Lincoln
 Denver, CO 80216

Sample Description: N. Wall of Exc.
 Sampled by: Rick Dow
 Date Sampled: 05/03/90

Chlorinated Hydrocarbons EPA Method 8010

Compound	ug/kg	Detection Limit mg/kg	Compound	ug/kg	Detection Limit mg/kg
Benzyl chloride	ND	0.5	Dichlorodifluoromethane	ND	0.5
Bis(2-chloroisopropyl)ether	ND	0.5	1,1-Dichloroethane	ND	0.5
Bromobenzene	ND	0.5	1,2-Dichloroethane	ND	0.5
Bromodichloromethane	ND	0.5	1,1-Dichloroethylene	ND	0.5
Bromoform	ND	0.5	trans-1,2-Dichloroethylene	ND	0.5
Bromomethane	ND	0.5	Dichloromethane	ND	0.5
Carbon tetrachloride	ND	0.5	1,2-Dichloropropane	ND	0.5
Chlorobenzene	ND	0.5	cis-1,3-Dichloropropylene	ND	0.5
Chloroethane	ND	0.5	trans-1,3-Dichloropropylene	ND	0.5
Chloroform	ND	0.5	1,1,2,2-Tetrachloroethane	ND	0.5
1-Chlorohexane	ND	0.5	1,1,1,2-Tetrachloroethane	ND	0.5
2-Chloroethyl vinyl ether	ND	0.5	Tetrachloroethylene	7230	0.5
Chloromethane	ND	0.5	1,1,1-Trichloroethane	4300	0.5
Chlorotoluene	ND	0.5	1,1,2-Trichloroethane	ND	0.5
Dibromochloromethane	ND	0.5	Trichloroethylene	ND	0.5
Dibromomethane	ND	0.5	Trichlorofluoromethane	ND	0.5
1,2-Dichlorobenzene	ND	0.5	Trichloropropane	ND	0.5
1,3-Dichlorobenzene	ND	0.5	Vinyl chloride	ND	0.5
1,4-Dichlorobenzene	ND	0.5			

ND = Not detected at or above the concentration of the detection limit.

ug/kg = ppb

If there are questions, please call or write.

John F. Quinn

John F. Quinn, Ph.D.
 Laboratory Director

Tie Kang Huang

Tie Kang Huang
 Chemist

JFQ: sib

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 & LABORATORY STOCKTON, CALIFORNIA 95205
 (209) 942-0181
 FAX (209) 942-0423

ANALYTICAL CHEMISTS

May 16, 1990

Lab No.: 30899-1
Acct #: 03-9254
Ryan Murphy, Inc.
5351 Lincoln
Denver, CO 80216

Sample Description: N. End of Tank
Sampled by: Rick Dow
Date Sampled: 05/03/90
Date Received: 05/08/90

RE: UNDERGROUND STORAGE TANK ANALYSIS - SOIL


<u>Tests Required</u>	<u>Test Results</u>	<u>Reporting Unit</u>	<u>DLR</u>
TPH (8015M-Diesel)	ND	mg/kg	10

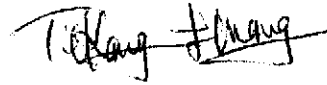
ND = Not detected at or above the concentration of the detection limit.

ug/kg = ppb
mg/kg = ppm

If you have any questions please call.

Very truly yours,
FGL ENVIRONMENTAL, INC.


John F. Quinn, Ph.D.
Laboratory Director



Tie Kang Huang
Chemist

JFQ: sjb

ANALYTICAL CHEMISTS

May 16, 1990

Lab No.: 30899-2
Acct #: 03-9254
Ryan Murphy, Inc.
5351 Lincoln
Denver, CO 80216

Sample Description: S. End of Tank
Sampled by: Rick Dow
Date Sampled: 05/03/90
Date Received: 05/08/90

RE: UNDERGROUND STORAGE TANK ANALYSIS - SOIL

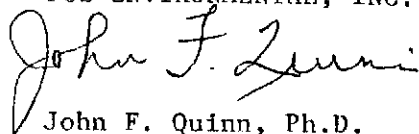
<u>Tests Required</u>	<u>Test Results</u>	<u>Reporting Unit</u>	<u>DLR</u>
TPH (8015M-Diesel)	86	mg/kg	10

ND = Not detected at or above the concentration of the detection limit.

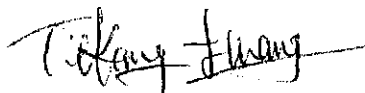
ug/kg = ppb
mg/kg = ppm

If you have any questions please call.

Very truly yours,
FGL ENVIRONMENTAL, INC.



John F. Quinn, Ph.D.
Laboratory Director



Tie Kang Huang
Chemist

JFQ: sjb

ANALYTICAL CHEMISTS

May 16, 1990

Lab No.: 30899-3
Acct #: 03-9254
Ryan Murphy, Inc.
5351 Lincoln
Denver, CO 80216

Sample Description: N. Wall of Exc.
Sampled by: Rick Dow
Date Sampled: 05/03/90
Date Received: 05/08/90

RE: UNDERGROUND STORAGE TANK ANALYSIS - SOIL

<u>Tests Required</u>	<u>Test Results</u>	<u>Reporting Unit</u>	<u>DLR</u>
TPH (8015M-Diesel)	1070	mg/kg	10

ND = Not detected at or above the concentration of the detection limit.

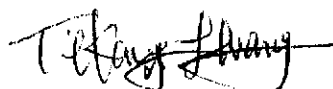
ug/kg = ppb
mg/kg = ppm

If you have any questions please call.

Very truly yours,
FGL ENVIRONMENTAL, INC.



John F. Quinn, Ph.D.
Laboratory Director



Tie Kang Huang
Chemist

JFQ: sjb

FGL ENVIRONMENTAL

RECEIVED MAY 22 1990

ANALYTICAL CHEMISTS

Lab. No. 30899

May 16, 1990

03-9254

Ryan Murphy, Inc.
5351 Lincoln
Denver, CO 80216

Sampled By: Rick Dow

RE: WATER ANALYSIS

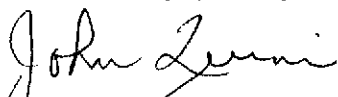
Presenting results of analysis performed on your sample received May 05, 1990. The sample has been described, as received, along with the data.

<u>DATA</u>	<u>Constituent</u>	<u>Results</u>
30899-1 N. End of Tank	Oil & Grease (503E)	40.0 mg/kg
30899-2 S. End of Tank	Oil & Grease (503E)	2436 mg/kg
30899-3 N. Wall of Exc	Oil & Grease (503E)	6548 mg/kg

* = Less Than

If there are questions, please call or write.

Very truly yours,



John Quinn, Ph.D.
Laboratory Director

JFQ:sjb

MAIN OFFICE -- 853 CORPORATION STREET -- P.O. BOX 272
& LABORATORY SANTA PAULA, CALIFORNIA 93060-0272
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& LABORATORY STOCKTON, CALIFORNIA 95205
(209) 942-0181
FAX (209) 942-0423

ANALYTICAL CHEMISTS

May 16, 1990

Lab No. 30899-1
Acct No. 03-9254
Ryan Murphy, Inc.
5351 Lincoln
Denver, CO 80216

Sample Description: N. End of Tank
Sampled by: Rick Dow
Date Sampled: 05/03/90
Date Received: 05/08/90

HAZARDOUS WASTE CHARACTERIZATION
(TTLIC)

Okay

Parameter	Test Results mg/kg	Detection		Parameter	Test Results mg/kg	Detection	
		TTLIC mg/kg	Limit mg/kg			TTLIC mg/kg	Limit mg/kg
Cadmium	ND	100	0.5	Zinc	ND	5,000	100
Chromium (Total)	ND	2,500	50	Lead	11	1,000	4
Molybdenum	ND	3,500	100	Nickel	42	2,000	10

ND = Not detected at or above the concentration of the detection limit.

mg/kg = ppm

Sincerely,

John F. Quinn
John F. Quinn, Ph.D.
Laboratory Director

JFQ: sjb

ANALYTICAL CHEMISTS

May 16, 1990

Lab No. 30899-2
Acct No. 03-9254
Ryan Murphy, Inc.
5351 Lincoln
Denver, CO 80216

Sample Description: S. End of Tank
Sampled by: Rick Dow
Date Sampled: 05/03/90
Date Received: 05/08/90

HAZARDOUS WASTE CHARACTERIZATION (TTLC)

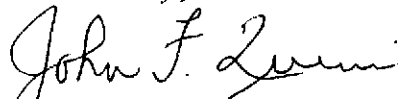
<u>Parameter</u>	<u>Test Results</u> mg/kg	<u>TTLC</u> mg/kg	<u>Detection</u> <u>Limit</u> mg/kg	<u>Parameter</u>	<u>Test Results</u> mg/kg	<u>TTLC</u> mg/kg	<u>Detection</u> <u>Limit</u> mg/kg
Cadmium	ND	100	0.5	Zinc	ND	5,000	100
Chromium (Total)	52	2,500	50	Lead	266	1,000	4
Molybdenum	ND	3,500	100	Nickel	40	2,000	10

ND = Not detected at or above the concentration of the detection limit.

mg/kg = ppm

Exceed STLC - 5.0 PPM

Sincerely,



John F. Quinn, Ph.D.
Laboratory Director

JFQ: sjb

ANALYTICAL CHEMISTS

May 16, 1990

Lab No. 30899-3
Acct No. 03-9254
Ryan Murphy, Inc.
5351 Lincoln
Denver, CO 80216

Sample Description: N. Wall of Exc
Sampled by: Rick Dow
Date Sampled: 05/03/90
Date Received: 05/08/90

HAZARDOUS WASTE CHARACTERIZATION (TTLC)

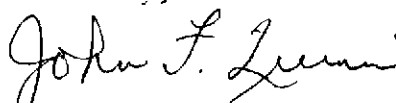
<u>Parameter</u>	<u>Test Results</u> mg/kg	<u>TTLC</u> mg/kg	<u>Detection</u>	<u>Parameter</u>	<u>Test Results</u> mg/kg	<u>TTLC</u> mg/kg	<u>Detection</u>
			<u>Limit</u> mg/kg				<u>Limit</u> mg/kg
Cadmium	ND	100	0.5	Zinc	ND	5,000	100
Chromium (Total)	60	2,500	50	Lead	135	1,000	4
Molybdenum	ND	3,500	100	Nickel	52	2,000	10

ND = Not detected at or above the concentration of the detection limit.

mg/kg = ppm

Exceed STCC of 5.0 ppm

Sincerely,



John F. Quinn, Ph.D.
Laboratory Director

JFQ: sjb