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Crosby & Overton
December 23, 1992
Hoyt & Buettner Tractor Co.
Drum & Soil Disposal Report

*This document supplied by : William & Shirley
Maier*

Phone # 581-7601

March 18, 1993

William Maier

Crosby & Overton

Industrial & Environmental Services

December 23, 1992

10011-H

Vince Hoyt & Harry Buettner
Hoyt & Buettner Tractor Co.
22117 Meekland Avenue
Hayward, CA 94541

**RE: Waste Drum and Soil Removal and Disposal at Hoyt & Buettner
Tractor Co., 22117 Meekland Avenue, Hayward, California**

Dear Mr. Hoyt and Mr. Buettner,

Crosby & Overton, Inc. (C&O) is pleased to submit this letter report concerning the results of waste containing drums and contaminated soil removal and disposal at 22117 Meekland Avenue, Hayward California (see Figure 1).

BACKGROUND

At this site a paint dip tank was located in an enclosed shed area (see Figure 2). This dip tank consisted of a concrete vault with a steel sleeve liner. The tank was approximately 300 - 500 gallons, four feet wide by five feet long and eight feet deep.

This dip tank was used to seal manhole covers with a protective black coating (see MSDS attached for AG-9 Black Radiator Complying Coating). Rain water had entered the dip tank.

L.B. Reed Construction, Inc. was contracted by Hoyt & Buettner Tractor to remove the contents of this tank. In doing this 31 drums containing various quantities of water, paint, waste oil, and debris were generated, as well as 7 yards of sludge. The sludge was placed on a bermed drying bed which was lined with and covered by visqueen. The steel sleeve was cleaned and removed. The concrete vault was thoroughly cleaned. The vault was backfilled and a concrete cap was poured to seal the vault.

DISPOSAL

Drums of material were characterized by various field methods. Samples were taken of drum material and sludge (see analytical results attached), and an appropriate method of disposal chosen for each category of waste.

Seven categories of material were identified:

- 8 Drums of Clean Groundwater from Groundwater Monitoring Wells
- 5 Drums of Black Paint Product
- 8 Drums of Water with Contaminants
- 3 Drums of Waste Oil and Water
- 6 Empty Drums (rusty and/or last contained TDI or Paint Product)
- 1 Drum Sludge
- 7 Yards Sludge

On October 21, 1992 the drums of paint, and paint with debris were collected and delivered to Appropriate Technologies of Chula Vista, California for disposal under manifest #92183335. Also on October 21, 1992 the groundwater was "stung" into a vacuum truck and delivered to Crosby & Overton of Long Beach, California for disposal under manifest #92183328.

On October 23, 1992 20 empty drums were delivered to Western Drum of Hayward, California for disposal under manifest #92183330.

On December 3, 1992 the sludge was transported to Gibson Oil and Refining of Bakersfield, California for recycling under manifest #92182803.

The drums of waste oil were "stung" out by Waste Oil Recovery of Oakland, California on December 11, 1992 and delivered to DeMenno Kerdoon of Compton, California for recycling under manifest #92183439. Also on this day the empty drums generated by the removal of the waste oil were delivered to Western Drum for disposal.

REPORTAGE

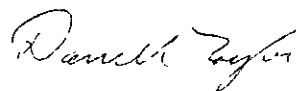
SFBRWQCB
2101 Webster Street
Oakland, CA 94612
Attn: **Tom Gandesbery**

Alameda Co Health Agency
Division of Hazardous Materials
Dept of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621
Attn: **Pamela Evans**

Alameda Co Health Agency
Division of Hazardous Materials
Dept of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621
Attn: **Ravi Arulanantham**

Should you have any questions or comments, or if we may be of further service, please do not hesitate to call us at (510) 633-0336.

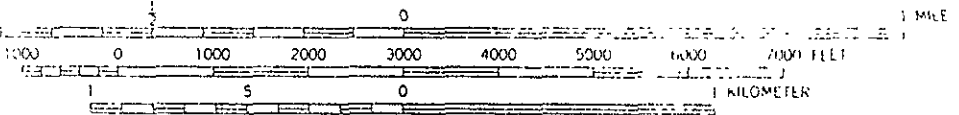
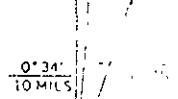
Sincerely,



Darrell Taylor
Environmental Geologist



SITE LOCATION:
 ← 22117 Meekland Ave.
 Hayward, CA



CONTOUR INTERVAL 20 FEET
 DOTTED LINES REPRESENT 5-FOOT CONTOURS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

CROSBY & OVERTON, INC.

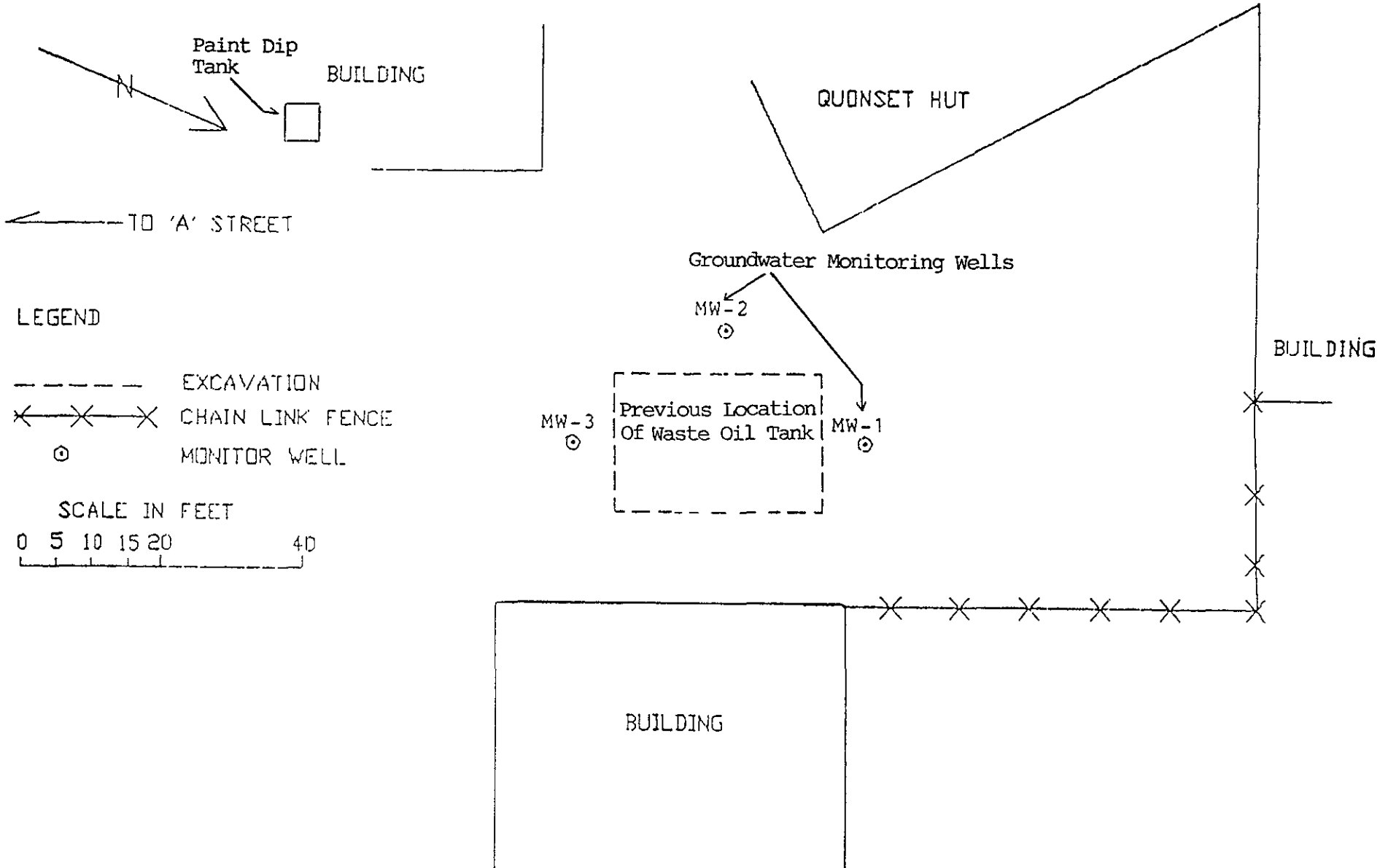
2139 AMELIA STREET • HAYWARD, CA 94521

(800) 821-0424 • (415) 633-0336
 FAX (415) 633-0759

FIGURE 1
 After USGS 15' Hayward CA quadrangle
 1959, rev. 1980.

DATE: 5-16-1991 JOB NUMBER: 8205-S

DRAWN BY: MHW



CROSBY & OVERTON, INC.

8430 AMELIA STREET • OAKLAND, CA 94621

(800) 821-0424 • (415) 633-0336

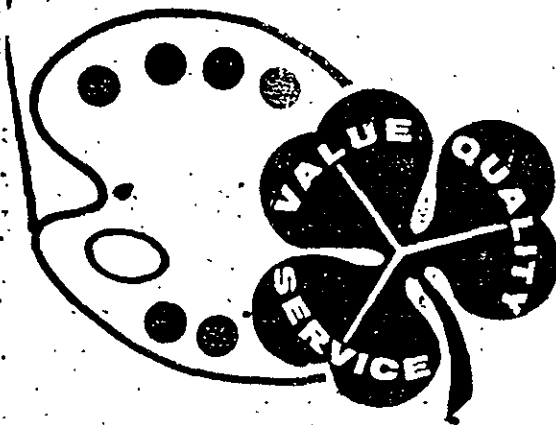
FAX (415) 633-0759

Figure 2 Site Map

DATE: 12-23-92

JOB NUMBER: 10011-H

DRAWN BY: D. Taylor



Shannon's

QUALITY PAINTS

FOR INDUSTRIAL USE ONLY

CAUTION! COMBUSTIBLE

SEE OTHER CAUTIONS ON BACK PANEL

AIR DRY COATING
AG-9 BLACK COMPLYING
CONTAINS 1-1-1, TRICHLOROETHANE
FIVE GALLONS

993 2800
DUNBAR

WARNING: Detectable amounts of chemicals, known to the State of California to cause cancer, birth defects or other reproductive harm, may be found in this product or its vapors.

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. USE ONLY WITH ADEQUATE VENTILATION. PREVENT BREATHING OF VAPOR OR SPRAY MIST. PREVENT PROLONGED OR REPEATED CONTACT WITH SKIN. KEEP CLOSURES TIGHT AND TIGHT TO PREVENT LEAKAGE. KEEP CONTAINER CLOSED WHEN NOT IN USE. IN CASE OF SPILLAGE, ABSORB AND FLUSH WITH LARGE VOLUMES OF WATER IMMEDIATELY.

FIRST AID: IN CASE OF SKIN CONTACT, FLUSH WITH PLENTY OF WATER; FOR EYES, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES AND GET MEDICAL ATTENTION. IF INHALED, REMOVE TO FRESH AIR. IF SWALLOWED, CALL A PHYSICIAN IMMEDIATELY. DO NOT INDUCE VOMITING.

USE ONLY WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN.

PAINT UN1263

V.O.C. DOES NOT EXCEED 420 GR/LITER

 * 06.27.89 *

 **
 ** MATERIAL SAFETY DATA SHEET **
 **
 ** for coatings, resins and related materials **
 **

 SECTION I

MANUFACTURER:
 TRIANGLE COATINGS, INC.
 1930 FAIRWAY DRIVE
 SAN LEANDRO, CA. 94577

EMERGENCY TELEPHONE:
 (415)895-8000 DAY
 (415)284-9031 NIGHT

TRADE NAME --- BLACK RADITOR COMPLYING COATING
 PRODUCT CLASS --- INDUSTRIAL PAINT
 MFR.CODE --- AG9

 SECTION II HAZARDOUS INGREDIENTS

ingredient	cas no.	%	exposure limits	v.p.
1) RESIN SOLUTION	UNKNOWN	20	500	1.3
2) RESIN SOLUTION		20	100	3.8
3) XYLDL		10	100	9.5
4) 1,1,1-TRI CHLOROETHENE		50	350	4.5
5)				

WARNING: DETECTABLE AMOUNTS OF CHEMICALS, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM, MAY BE FOUND IN THIS PRODUCT OR ITS VAPORS.

 SECTION III PHYSICAL DATA

BOILING RANGE 279-291°F
 EVAPORATION RATE XX_SLOWER ___FASTER THAN ETHER
 VAPOR DENSITY XX_HEAVIER ___LIGHTER THAN AIR
 % VOLATILE BY VOLUME 68 %
 WEIGHT PER GALLON 10.5
 VOLATILE ORGANIC COMPOUND 3.50 LBS/GAL (420.0 GR/LITER)
 LESS 1,1,1 TRICHLOROETHANE

TRIANGLE COATINGS, INC.
MFR.CODE -- AG9

SECTION IV FIRE & EXPLOSION DATA

FLAMMABILITY CLASSIFICATION ----- OSHA COMBUSTIBLE LIQUID CLASS II
----- DOT COMBUSTIBLE LIQUID

FLASH POINT 130°F LEL 1.3 (of resin sol.)

FIRE EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, CARBON DIOXIDE

UNUSUAL FIRE & EXPLOSION HAZARDS:
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.

SECTION V HEALTH HAZARD DATA

EFFECTS OF OVER EXPOSURE: INHALATION; TEMPORARY DIZZINESS, HEADACHE, POSSIBLY NAUSEA, SYPTOMS DISAPPEAR WHEN EXPOSURE CEASES. EYE OR SKIN CONTACT MAY CAUSE DISCOMFORT BY DEFATTING ACTION OF SOLVENT.

EMERGENCY PROCEDURES: REMOVE PATIENT TO FRESH AIR, FLUSH EYES WITH CLEAN WATER FOR 15 MINUTES. WASH SKIN THOROUGHLY AND REMOVE SATURATED CLOTHING. CONTACT A PHYSICIAN.

SECTION VI REACTIVITY DATA

STABILITY: ___UNSTABLE XX_STABLE ; CONDITIONS TO AVOID: N/A

INCOMPATIBILITY: STRONG OXIDANTS

HAZARDOUS DECOMPOSITION PRODUCTS:
USUAL PRODUCTS OF COMBUSTION. FUMES MAY CONTAIN CARBON MONOXIDE AND OXIDES OF NITROGEN.

HAZARDOUS POLYMERIZATION: ___MAY XX_WILL NOT OCCUR.
TRIANGLE COATINGS, INC.
MFR.CODE AG9

SECTION VII SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
REMOVE ALL SOURCES OF IGNITION (FLAMES
HOT SURFACES, AND ELECTRICAL, STATIC,
OR FRICTIONAL SPARKS). AVOID
BREATHING VAPORS. VENTILATE AREA.
REMOVE WITH INERT ABSORBENT USING
NON-SPARKING TOOLS.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH
LOCAL, STATE AND FEDERAL REGULATIONS.
DO NOT INCINERATE CLOSED CONTAINERS.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH APPROVED RESPIRATOR

VENTILATION: LOCAL EXHAUST-ADEQUATE VOLUME AND
PATTERN TO AVOID VAPOR LIMITS
BELOW TLV.

PROTECTIVE GLOVES: REQUIRED FOR PROLONGED USE.

EYE PROTECTION: USE SAFETY EYEWEAR.

OTHER PROTECTIVE EQUIP.: N/A

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
DO NOT STORE ABOVE 120°F
GROUND ALL CONTAINERS

OTHER PRECAUTIONS: DO NOT TAKE INTERNALLY

Certificate of Analysis

LOHS CERTIFICATION NO E772

AIHA ACCREDITATION NO 532

CROSBY & OVERTON, INC.
8430 AMELIA STREET
OAKLAND, CA 94621
ATTN: DAVE SADOFF

REPORT DATE: 03/06/92

DATE SAMPLED: 02/27/92


DATE RECEIVED: 02/27/92

CLIENT PROJ. ID: 9472-S
PURCHASE ORDER NO: 13096

QUANTEQ JOB NO: 9202219

ANALYSIS OF: WATER AND HYDROCARBON SAMPLES

Client Sample Id.	Quanteq Lab Id.	Hydrocarbons (mg/L)	Hydrocarbons (mg/kg)
A1	01D	1	---
A2	02D	470	---
S1	03A	---	360,000
Detection Limit		0.5	0.5
Method		5520F	5520F
Instrument:	IR		
Date Extracted:	03/05/92		
Date Analyzed:	03/05/92		


Andrew Bradeen, Manager
Organic Laboratory

Results FAXed 03/05/92

CROSBY & OVERTON, INC.

CLIENT ID: A1
 CLIENT PROJ. ID: 9472-S
 DATE SAMPLED: 02/27/92
 DATE RECEIVED: 02/27/92
 REPORT DATE: 03/06/92

QUANTEQ LAB NO: 9202219-01A
 QUANTEQ JOB NO: 9202219
 DATE ANALYZED: 02/28/92
 INSTRUMENT: 12

EPA METHOD 8240 (WATER MATRIX)
 GC/MS VOLATILE ORGANIC COMPOUNDS

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Acetone	67-64-1	ND	500
Benzene	71-43-2	ND	30
Bromodichloromethane	75-27-4	ND	30
Bromoform	75-25-2	ND	30
Bromomethane	74-83-9	ND	50
2-Butanone	78-93-3	ND	500
Carbon Disulfide	75-15-0	ND	50
Carbon Tetrachloride	56-23-5	ND	30
Chlorobenzene	108-90-7	ND	30
Chloroethane	75-00-3	ND	50
2-Chloroethyl Vinyl Ether	110-75-8	ND	50
Chloroform	67-66-3	ND	30
Chloromethane	74-87-3	ND	50
Dibromochloromethane	124-48-1	ND	30
1,1-Dichloroethane	75-34-3	130	30
1,2-Dichloroethane	107-06-2	ND	30
1,1-Dichloroethene	75-35-4	ND	30
cis-1,2-Dichloroethene	156-69-9	ND	30
trans-1,2-Dichloroethene	156-60-5	ND	30
1,2-Dichloropropane	78-87-5	ND	30
cis-1,3-Dichloropropene	10061-01-5	ND	30
trans-1,3-Dichloropropene	10061-02-6	ND	30
Ethylbenzene	100-41-4	ND	30
2-Hexanone	591-78-6	ND	300
Methylene Chloride	75-09-2	ND	30
4-Methyl-2-pentanone	108-10-1	ND	300
Styrene	100-42-5	ND	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	30
Tetrachloroethene	127-18-4	ND	30
Toluene	108-88-3	ND	30
1,1,1-Trichloroethane	71-55-6	52	30
1,1,2-Trichloroethane	79-00-5	ND	30
Trichloroethene	79-01-6	ND	30
Vinyl Acetate	108-05-4	ND	300
Vinyl Chloride	75-01-4	ND	50
Xylenes, total	1330-20-7	ND	50

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT ID: A2
 CLIENT PROJ. ID: 9472-S
 DATE SAMPLED: 02/27/92
 DATE RECEIVED: 02/27/92
 REPORT DATE: 03/06/92

QUANTEQ LAB NO: 9202219-02A
 QUANTEQ JOB NO: 9202219
 DATE ANALYZED: 02/28/92
 INSTRUMENT: 12

EPA METHOD 8240 (WATER MATRIX)
 GC/MS VOLATILE ORGANIC COMPOUNDS

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Acetone	67-64-1	ND	50,000
Benzene	71-43-2	ND	3,000
Bromodichloromethane	75-27-4	ND	3,000
Bromoform	75-25-2	ND	3,000
Bromomethane	74-83-9	ND	5,000
2-Butanone	78-93-3	ND	50,000
Carbon Disulfide	75-15-0	ND	5,000
Carbon Tetrachloride	56-23-5	ND	3,000
Chlorobenzene	108-90-7	ND	3,000
Chloroethane	75-00-3	ND	5,000
2-Chloroethyl Vinyl Ether	110-75-8	ND	5,000
Chloroform	67-66-3	ND	3,000
Chloromethane	74-87-3	ND	5,000
Dibromochloromethane	124-48-1	ND	3,000
1,1-Dichloroethane	75-34-3	ND	3,000
1,2-Dichloroethane	107-06-2	ND	3,000
1,1-Dichloroethene	75-35-4	ND	3,000
cis-1,2-Dichloroethene	156-69-9	ND	3,000
trans-1,2-Dichloroethene	156-60-5	ND	3,000
1,2-Dichloropropane	78-87-5	ND	3,000
cis-1,3-Dichloropropene	10061-01-5	ND	3,000
trans-1,3-Dichloropropene	10061-02-6	ND	3,000
Ethylbenzene	100-41-4	ND	3,000
2-Hexanone	591-78-6	ND	30,000
Methylene Chloride	75-09-2	ND	3,000
4-Methyl-2-pentanone	108-10-1	ND	30,000
Styrene	100-42-5	28,000	3,000
1,1,2,2-Tetrachloroethane	79-34-5	ND	3,000
Tetrachloroethene	127-18-4	ND	3,000
Toluene	108-88-3	ND	3,000
1,1,1-Trichloroethane	71-55-6	ND	3,000
1,1,2-Trichloroethane	79-00-5	ND	3,000
Trichloroethene	79-01-6	ND	3,000
Vinyl Acetate	108-05-4	ND	30,000
Vinyl Chloride	75-01-4	ND	5,000
Xylenes, total	1330-20-7	ND	5,000

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT ID: S1
 CLIENT PROJ. ID: 9472-S
 DATE SAMPLED: 02/27/92
 DATE RECEIVED: 02/27/92
 REPORT DATE: 03/06/92

QUANTEQ LAB NO: 9202219-03A
 QUANTEQ JOB NO: 9202219
 DATE ANALYZED: 02/28/92
 INSTRUMENT: 12

EPA METHOD 8240 (SOIL MATRIX)
 GC/MS VOLATILE ORGANIC COMPOUNDS

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Acetone	67-64-1	ND	100,000
Benzene	71-43-2	ND	5,000
Bromodichloromethane	75-27-4	ND	5,000
Bromoform	75-25-2	ND	5,000
Bromomethane	74-83-9	ND	10,000
2-Butanone	78-93-3	ND	100,000
Carbon Disulfide	75-15-0	ND	10,000
Carbon Tetrachloride	56-23-5	ND	5,000
Chlorobenzene	108-90-7	ND	5,000
Chloroethane	75-00-3	ND	10,000
2-Chloroethyl Vinyl Ether	110-75-8	ND	10,000
Chloroform	67-66-3	ND	5,000
Chloromethane	74-87-3	ND	10,000
Dibromochloromethane	124-48-1	ND	5,000
1,1-Dichloroethane	75-34-3	ND	5,000
1,2-Dichloroethane	107-06-2	ND	5,000
1,1-Dichloroethene	75-35-4	ND	5,000
cis-1,2-Dichloroethene	156-69-9	ND	5,000
trans-1,2-Dichloroethene	156-60-5	ND	5,000
1,2-Dichloropropane	78-87-5	ND	5,000
cis-1,3-Dichloropropene	10061-01-5	ND	5,000
trans-1,3-Dichloropropene	10061-02-6	ND	5,000
Ethylbenzene	100-41-4	ND	5,000
2-Hexanone	591-78-6	ND	50,000
Methylene Chloride	75-09-2	ND	5,000
4-Methyl-2-pentanone	108-10-1	ND	50,000
Styrene	100-42-5	ND	5,000
1,1,2,2-Tetrachloroethane	79-34-5	ND	5,000
Tetrachloroethene	127-18-4	ND	5,000
Toluene	108-88-3	ND	5,000
1,1,1-Trichloroethane	71-55-6	79,000	5,000
1,1,2-Trichloroethane	79-00-5	ND	5,000
Trichloroethene	79-01-6	ND	5,000
Vinyl Acetate	108-05-4	ND	50,000
Vinyl Chloride	75-01-4	ND	10,000
Xylenes, total	1330-20-7	12,000	10,000

ND = Not Detected

QUALITY CONTROL DATA

DATE EXTRACTED: 03/04/92
 DATE ANALYZED: 03/05/92
 SAMPLE SPIKED: D.I. WATER

QUANTEQ JOB NO: 9202219
 CLIENT PROJ. ID: 9472-S
 INSTRUMENT: IR

IR DETERMINATION FOR OIL & GREASE/HYDROCARBONS
 MATRIX SPIKE RECOVERY SUMMARY
 (WATER MATRIX)

ANALYTE	Spike Conc. (mg/L)	Sample Result (mg/L)	MS Result (mg/L)	MSD Result (mg/L)	Average Percent Recovery	RPD
oil	5.85	ND	5.85	5.85	100.0	0.0

CURRENT QC LIMITS (Revised 01/09/92)

<u>Analyte</u>	<u>Percent Recovery</u>	<u>RPD</u>
oil	(87-112)	5.4

MS = Matrix Spike
 MSD = Matrix Spike Duplicate
 RPD = Relative Percent Difference
 ND = Not Detected

QUALITY CONTROL DATA

INSTRUMENT: 12

QUANTEQ JOB NO: 9202219

CLIENT PROJ. ID: 9472-S

SURROGATE STANDARD RECOVERY SUMMARY

METHOD 8240
(WATER MATRIX)

SAMPLE IDENTIFICATION			SURROGATE RECOVERY (PERCENT)		
Date Analyzed	Client Id.	Lab No.	1,2-Dichloroethane-d ₄	Toluene-d ₈	p-Bromofluorobenzene
02/28/92	A1	01A	97.2	99.2	100.9
02/28/92	A2	02A	101.3	99.1	103.2

CURRENT QC LIMITS

<u>ANALYTE</u>	<u>PERCENT RECOVERY</u>
1,2-Dichloroethane-d ₄	(87-127)
Toluene-d ₈	(90-108)
p-Bromofluorobenzene	(91-109)

QUALITY CONTROL DATA

DATE ANALYZED: 02/28/92
SAMPLE SPIKED: 9202219-01A
INSTRUMENT: 12

QUANTEQ JOB NO: 9202219
CLIENT PROJ. ID: 9472-S

MATRIX SPIKE RECOVERY SUMMARY

METHOD 8240
(WATER MATRIX)

ANALYTE	Spike Conc. (ug/L)	Sample Result (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	Average Percent Recovery	RPD
1,1-Dichloroethene	250	ND	300	301	120.2	0.3
Trichloroethene	250	ND	236	236	94.4	0.8
Benzene	250	ND	250	244	98.8	2.4
Toluene	250	ND	248	238	97.2	4.1
Chlorobenzene	250	ND	245	246	98.2	0.4

CURRENT QC LIMITS (Revised 08/13/91)

Analyte	Percent Recovery	RPD
1,1-Dichloroethene	(65-133)	13.5
Trichloroethene	(84-120)	8.7
Benzene	(84-121)	9.4
Toluene	(89-119)	8.4
Chlorobenzene	(83-116)	7.5

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

QUALITY CONTROL DATA

INSTRUMENT: 12

QUANTEQ JOB NO: 9202219

CLIENT PROJ. ID: 9472-S

SURROGATE STANDARD RECOVERY SUMMARY

METHOD 8240
(SOIL MATRIX)

SAMPLE IDENTIFICATION			SURROGATE RECOVERY (PERCENT)		
Date Analyzed	Client Id.	Lab No.	1,2-Dichloroethane-d ₄	Toluene-d ₈	p-Bromofluorobenzene
02/28/92	S1	03A	99.8	100.9	98.3

CURRENT QC LIMITS

<u>ANALYTE</u>	<u>PERCENT RECOVERY</u>
1,2-Dichloroethane-d ₄	(80-135)
Toluene-d ₈	(90-116)
p-Bromofluorobenzene	(82-114)

QUALITY CONTROL DATA

DATE ANALYZED: 02/28/92
SAMPLE SPIKED: 9202182-03A
INSTRUMENT: 12

QUANTEQ JOB NO: 9202219

CLIENT PROJ. ID: 9472-S

MATRIX SPIKE RECOVERY SUMMARY

METHOD 8240
(SOIL MATRIX)

ANALYTE	Spike Conc. (ug/kg)	Sample Result (ug/kg)	MS Result (ug/kg)	MSD Result (ug/kg)	Average Percent Recovery	RPD
1,1-Dichloroethene	50.0	ND	65.5	63.0	128.5	3.4
Trichloroethene	50.0	ND	39.9	42.3	82.2	5.8
Benzene	50.0	ND	53.2	51.7	104.9	2.9
Toluene	50.0	ND	46.7	47.4	94.1	1.5
Chlorobenzene	50.0	ND	48.7	55.5	99.2	3.6

CURRENT QC LIMITS (Revised 08/13/91)

Analyte	Percent Recovery	RPD
1,1-Dichloroethene	(61-143)	14.9
Trichloroethene	(72-121)	11.5
Benzene	(82-123)	10.0
Toluene	(80-118)	11.9
Chlorobenzene	(82-113)	10.0

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

PROJ. NO. 94725	PROJECT NAME 22117 IMBEKLAND	P.O. NO. 13096	NO. OF CONTAINERS 8240 5520-F
--------------------	---------------------------------	-------------------	-------------------------------------

SAMPLERS: Signature *[Signature]* Send report attention to *[Signature]*

STA NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS			REMARKS
A1	2/27/92	2:52		✓	DRUM 1 01A-B	5	X	X	
A2	"	3:08		✓	DRUM 2 02A-B	5	X	X	
S1	"	3:18		✓	DRUM 3 03A	1	X	X	*

Relinquished by: Signature <i>[Signature]</i>	Date/Time 2/27/92 3:55	Received by: Signature <i>Kim Flores</i>	Date/Time 2/27/92 3:55
Relinquished by: Signature <i>Kim Flores</i>	Date/Time 2/27/92 5:00	Received by: Signature <i>Quinn Gillispie</i>	Date/Time 2-27-92 1700
Relinquished by: Signature	Date/Time	Received by: Signature	Date/Time

REMARKS: * VERY VISCOUS (TAR24)
NEAR VIRGIN MATERIAL - CAREFUL WITH COLUMNS!

Company Name **(S) DAY RUSH**
Address



CROSBY & OVERTON, INC.
8430 AMELIA STREET • OAKLAND, CA 94621

(800) 821-0424 • (415) 633-0336
FAX (415) 633-0759

Certificate of Analysis

PAGE 1 OF 6

DOHS CERTIFICATION NO. F772

ALHA ACCREDITATION NO. 151

CROSBY & OVERTON, INC.
8430 AMELIA STREET
OAKLAND, CA 94621

ATTN: DARRELL TAYLOR

CLIENT PROJ. ID: 10011-H
P.O. NO: 14263

REPORT DATE: 11/05/92

DATE SAMPLED: 10/16/92

DATE RECEIVED: 10/19/92

QUANTEQ JOB NO: 9210128

PROJECT SUMMARY:

On October 19, 1992, this laboratory received one (1) soil sample. Sample was received cold and in appropriate container.

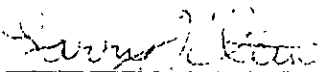
Client requested the sample to be analyzed for Total Oil and Grease and Hydrocarbons by Standard Method 5520E & F and Volatile Organic Compounds by EPA method 8240.

Sample identification, methodologies, results and dates analyzed are summarized on the following pages.

Portion of sample analyzed for Volatile Organic Compounds by EPA method 8240 was diluted due to high hydrocarbon content. Detection limits have been adjusted accordingly.

All laboratory quality control parameters were found to be within established limits. Batch QC data is included at the end of this report.

If you have any questions, please contact Client Services at (510) 930-9090.



Larry Klein
Laboratory Manager

Results FAXed 10/28/92

CROSBY & OVERTON, INC.

DATE SAMPLED: 10/16/92
DATE RECEIVED: 10/19/92
CLIENT PROJ. ID: 10011-H

REPORT DATE: 11/05/92
QUANTEQ JOB NO: 9210128

Client Sample Id.	Quanteq Lab Id.	Oil & Grease (mg/kg)	Hydrocarbons (mg/kg)
S-1	01A	37,000	28,000
Reporting Limit		10	10
Method:		5520E	5520F
Instrument:	IR		
Date Extracted:	10/22/92		
Date Analyzed:	10/22/92		

CROSBY & OVERTON, INC.

SAMPLE ID: S-1
 CLIENT PROJ. ID: 10011-H
 DATE SAMPLED: 10/16/92
 DATE RECEIVED: 10/19/92
 REPORT DATE: 11/05/92

QUANTEQ LAB NO: 9210128-01A
 QUANTEQ JOB NO: 9210128
 DATE ANALYZED: 10/26-27/92
 INSTRUMENT: 12

EPA METHOD 8240 (SOIL MATRIX)
 GC/MS VOLATILE ORGANIC COMPOUNDS

COMPOUND	CAS #	CONCENTRATION (ug/kg)	REPORTING LIMIT (ug/kg)
Acetone	67-64-1	ND	500
Benzene	71-43-2	ND	30
Bromodichloromethane	75-27-4	ND	30
Bromoform	75-25-2	ND	30
Bromomethane	74-83-9	ND	50
2-Butanone	78-93-3	ND	500
Carbon Disulfide	75-15-0	ND	50
Carbon Tetrachloride	56-23-5	ND	30
Chlorobenzene	108-90-7	ND	30
Chloroethane	75-00-3	ND	50
2-Chloroethyl Vinyl Ether	110-75-8	ND	50
Chloroform	67-66-3	ND	30
Chloromethane	74-87-3	ND	50
Dibromochloromethane	124-48-1	ND	30
1,1-Dichloroethane	75-34-3	ND	30
1,2-Dichloroethane	107-06-2	ND	30
1,1-Dichloroethene	75-35-4	ND	30
cis-1,2-Dichloroethene	156-59-2	ND	30
trans-1,2-Dichloroethene	156-60-5	ND	30
1,2-Dichloropropane	78-87-5	ND	30
cis-1,3-Dichloropropene	10061-01-5	ND	30
trans-1,3-Dichloropropene	10061-02-6	ND	30
Ethylbenzene	100-41-4	ND	30
2-Hexanone	591-78-6	ND	300
Methylene Chloride	75-09-2	ND	30
4-Methyl-2-pentanone	108-10-1	ND	300
Styrene	100-42-5	ND	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	30
Tetrachloroethene	127-18-4	ND	30
Toluene	108-88-3	ND	30
1,1,1-Trichloroethane	71-55-6	ND	30
1,1,2-Trichloroethane	79-00-5	ND	30
Trichloroethene	79-01-6	ND	30
Vinyl Acetate	108-05-4	ND	300
Vinyl Chloride	75-01-4	ND	50
Xylenes, total	1330-20-7	ND	50

ND = Not Detected

QUALITY CONTROL DATA

DATE EXTRACTED: 10/07/92
DATE ANALYZED: 10/09/92
CLIENT PROJ. ID: 10011-H

QUANTEQ JOB NO: 9210128
SAMPLE SPIKED: 9209152-14A
INSTRUMENT: IR

IR DETERMINATION FOR OIL & GREASE/HYDROCARBONS
METHOD SPIKE RECOVERY SUMMARY
(SOIL MATRIX)

ANALYTE	Spike Conc. (mg/kg)	Sample Result (mg/kg)	MS Result (mg/kg)	MSD Result (mg/kg)	Average Percent Recovery	RPD
Oil	206	ND	186	176	87.9	5.5

CURRENT QC LIMITS (Revised 06/22/92)

Analyte	Percent Recovery	RPD
Oil	(84-113)	8.1

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

QUALITY CONTROL DATA

INSTRUMENT: 12

QUANTEQ JOB NO: 9210128

CLIENT PROJ. ID: 10011-H

SURROGATE STANDARD RECOVERY SUMMARY

METHOD 8240
 (SOIL MATRIX)

Date Analyzed	SAMPLE IDENTIFICATION		SURROGATE RECOVERY (PERCENT)		
	Client Id.	Lab Id.	1,2-Dichloro-ethane-d ₄	Toluene-d ₈	p-Bromofluorobenzene
10/26/92	S-1	01A	107.3	113.3	87.4

CURRENT QC LIMITS (Revised 08/13/91)

<u>ANALYTE</u>	<u>PERCENT RECOVERY</u>
1,2-Dichloroethane-d4	(80-135)
Toluene-d8	(90-116)
p-Bromofluorobenzene	(82-114)

QUALITY CONTROL DATA

DATE ANALYZED: 10/26/92
INSTRUMENT: 12
CLIENT PROJ. ID: 10011-H

QUANTEQ JOB NO: 9210128
SAMPLE SPIKED: 9210183-01A

MATRIX SPIKE RECOVERY SUMMARY

METHOD 8240
(SOIL MATRIX)

ANALYTE	Spike Conc. (ug/kg)	Sample Result (ug/kg)	MS Result (ug/kg)	MSD Result (ug/kg)	Average Percent Recovery	RPD
1,1-Dichloroethene	50.0	ND	54.4	52.3	106.7	3.9
Trichloroethene	50.0	ND	53.8	52.5	106.3	2.4
Benzene	50.0	ND	51.4	49.7	101.1	3.4
Toluene	50.0	ND	52.4	52.5	104.9	0.2
Chlorobenzene	50.0	ND	53.5	53.1	106.6	0.8

CURRENT QC LIMITS (Revised 08/13/91)

Analyte	Percent Recovery	RPD
1,1-Dichloroethene	(61-143)	15
Trichloroethene	(72-121)	12
Benzene	(82-123)	10
Toluene	(80-118)	12
Chlorobenzene	(82-113)	10

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

PROJ. NO.	PROJECT NAME	P.O. NO.	NO. OF CONTAINERS	NO. OF CONTAINERS															
10-011-01	W. 1000 Hill	10/19/92		NO. OF CONTAINERS															
SAMPLERS: Signature			Send report attention to																
[Signature]			[Signature]																
STA NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS												REMARKS	
DIA 5-1	10-19-92	2:00				NO. OF CONTAINERS													
Relinquished by: Signature			Date/Time	Received by: Signature			Date/Time	REMARKS:											
Krista Street			10/19/92 3:09	[Signature]			10/19/92 4:07												
Relinquished by: Signature			Date/Time	Received by: Signature			Date/Time												
[Signature]			11:55	Gina Gallie			10-19-92 1453	Company Name Address											
Relinquished by: Signature			Date/Time	Received by: Signature			Date/Time												



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