REDACTED VERSION

ADMINISTRATIVE RECORD INDEX

FINAL

SITE NAME: JENSEN ROAD DRUMS

SITE NUMBER: TXD K9

INDEX DATE: 08/22/90

RECEIVED
SUPERFUND
APR 1 3 1992
RECORDS
CENTER

90126177

JENSEN ROAD DRUMS

TXD K9

The Administrative Record Index is arranged with the following structure:

I. CHRONOLOGICAL LISTING
This section of the index contains all records of the file arranged chronologically.

II. CATEGORIZED LISTING
This section of the index is arranged by subject headings as follows:

1.0 SITE IDENTIFICATION
- 1.1 Background Information
- 1.2 Notification/Site Inspection Reports
- 1.3 Preliminary Assessment (PA) Report
- 1.4 Site Investigation (SI) Report
- 1.5 Previous Operable Unit Information

2.0 REMOVAL RESPONSE
- 2.1 Sampling and Analysis Plans
- 2.2 Sampling and Analysis Data/Chain of Custody
- 2.3 EE/CA Approval Memorandum
- 2.4 EE/CA
- 2.5 Action Memorandum
- 2.6 Amendments to Action Memorandum

3.0 REMEDIAL INVESTIGATION (RI)
- 3.1 Sampling and Analysis Plan (SAP)
- 3.2 Sampling and Analysis Data/Chain of Custody
- 3.3 Work Plan
- 3.4 RI Reports

4.0 FEASIBILITY STUDY (FS)
- 4.1 ARAR Determinations
- 4.2 FS Reports
- 4.3 Proposed Plan
- 4.4 Supplements and Revisions to Proposed Plan

5.0 RECORD OF DECISION (ROD)
- 5.1 ROD
- 5.2 Amendments to ROD
- 5.3 Explanations of Significant Differences

6.0 STATE COORDINATION
- 6.1 Cooperative Agreements/SMOAs
- 6.2 State Certification of ARARs

7.0 ENFORCEMENT
- 7.1 Enforcement History
- 7.2 Endangerment Assessments
- 7.3 Administrative Orders
- 7.4 Consent Decrees
- 7.5 Affidavits
- 7.6 Technical Discussions with PRPs
- 7.7 Notice Letters and Responses

8.0 HEALTH ASSESSMENTS
- 8.1 ATSDR Health Assessments
- 8.2 Toxicological Profiles

9.0 NATURAL RESOURCE TRUSTEES
- 9.1 Notices Issued
- 9.2 Findings of Fact
- 9.3 Reports

10.0 PUBLIC PARTICIPATION
- 10.1 Comments and Responses
- 10.2 Community Relations Plan
- 10.3 Public Notices
- 10.4 Public Meeting Transcripts
- 10.5 Documentation of Other Public Meetings
- 10.6 Fact Sheets and Press Releases
- 10.7 Responsiveness Summary
- 10.8 Late Comments

11.0 TECHNICAL SOURCES AND GUIDANCE DOCUMENTS
- 11.1 EPA Headquarters Guidance
- 11.2 EPA Regional Guidance
- 11.3 State Guidance
- 11.4 Technical Sources

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**********
*  I. CHRONOLOGICAL LISTING  *
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**********
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NOTE TO READER: Following is a an example of the numbering scheme used for this sites Removal Administrative Record.

I.E.: AA - 0001 - 0010

The AA represents the facility's two (2) digit site identification number. It may either be alphabetic or a combination of both alphabetic and numeric sequencing. The four digit number following the identification number indicates the range of pages contained in each indexed item.

ADMINISTRATIVE RECORD INDEX

FINAL

SITE NAME: JENSEN ROAD DRUMS
SITE NUMBER: TXD K9

DOCUMENT NUMBER: 000001 - 000001
DOCUMENT DATE: 08/16/88
NUMBER OF PAGES: 1
AUTHOR: Michael Taormina, TAT Consultant
COMPANY/AGENCY: Ecology and Environment, Inc.
RECIPIENT: Pat Hammack, OSC, ERB, U.S. EPA Region 6
DOCUMENT TYPE: ROC
DOCUMENT TITLE: Conversation held with OSC to get preliminary information on the business at the Jensen Dr. Drum Site

DOCUMENT NUMBER: 000002 - 000019
DOCUMENT DATE: 08/19/88
NUMBER OF PAGES: 18
AUTHOR: Michael Taormina, TAT Consultant
COMPANY/AGENCY: Ecology and Environment, Inc.
RECIPIENT: U.S. EPA Region 6 Site Files
DOCUMENT TYPE: Field Notes
DOCUMENT TITLE: Documentation noting TAT's various site activities at the Jensen Dr. Drum Site.

DOCUMENT NUMBER: 000020 - 000062
DOCUMENT DATE: 09/30/88
NUMBER OF PAGES: 43
AUTHOR: Michael Daggett, Chief, Organic Lab Section
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: Diana Ayers, Chief, Houston Branch, U.S. EPA Region 6
DOCUMENT TYPE: Memorandum
DOCUMENT TITLE: Organic Laboratory Results for Jensen Dr. Drum Site Samples 8TFAKC4601 through 8TFAKC4610, which were analyzed for ABNs only.

DOCUMENT NUMBER: 000063 - 000104
DOCUMENT DATE: 11/10/88
NUMBER OF PAGES: 42
AUTHOR: TAT Consultants
COMPANY/AGENCY: Ecology & Environment, Inc.
RECIPIENT: J. Chris Petersen, Deputy Project Officer, ERB, U.S. EPA Region 6
DOCUMENT TYPE: Report
DOCUMENT TITLE: Site Assessment-Jensen Dr. Drum Site, conducted to determine whether conditions present a potential threat to public health and welfare and/or to the environment, site sketches, analysis results, rocs

ADMINISTRATIVE RECORD INDEX

FINAL

SITE NAME: JENSEN ROAD DRUMS
SITE NUMBER: TXD K9

DOCUMENT NUMBER: 000105 - 000105
DOCUMENT DATE: 12/12/88
NUMBER OF PAGES: 1
AUTHOR: Wallace Cooper, Senior OSC, ERB
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: U.S. EPA Region 6 Site Files
DOCUMENT TYPE: ROC
DOCUMENT TITLE: Conversation with Mr. Larry Smith, President of Pelican Mud Co., notifying him that drums were identified at the Jensen Dr. Drum site, with his company's name

DOCUMENT NUMBER: 000106 - 000106
DOCUMENT DATE: 12/12/88
NUMBER OF PAGES: 1
AUTHOR: Wallace Cooper, Senior OSC, ERB
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: U.S. EPA Region 6 Site Files
DOCUMENT TYPE: ROC
DOCUMENT TITLE: Mr. Charles Ribelin, Chairman of Ribelin Sales, Inc. was advised that drums with his company's name on them, were identified at the Jensen Dr. Drum Site.

DOCUMENT NUMBER: 000107 - 000107
DOCUMENT DATE: 12/12/88
NUMBER OF PAGES: 1
AUTHOR: Pat Hammack, OSC, ERB
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: U.S. EPA Region 6 Site Files
DOCUMENT TYPE: ROC
DOCUMENT TITLE: Conversation with Warren Gafford of Ethyl Corporation concerning the demand letter for the Jensen Dr. Drum Site.

DOCUMENT NUMBER: 000108 - 000110
DOCUMENT DATE: 12/12/88
NUMBER OF PAGES: 3
AUTHOR: Marla Tyson, Civil Investigator, Cost Recovery Section
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: U.S. EPA Region 6 Site Files
DOCUMENT TYPE: ROC with Attached Demand Statement
DOCUMENT TITLE: Conversation with Mr. C.B. Hunt of Ethyl Corporation, in which he was read the Verbal Demand for PRP participation in the removal at the Jensen Dr. Drum Site.

ADMINISTRATIVE RECORD INDEX

FINAL

SITE NAME: JENSEN ROAD DRUMS
SITE NUMBER: TXD K9

DOCUMENT NUMBER: 000111 - 000111
DOCUMENT DATE: 12/12/88
NUMBER OF PAGES: 1
AUTHOR: Carl Hickam, Regional Health Advisor
COMPANY/AGENCY: CDC, ATSDR
RECIPIENT: George Buynoski, Chief and George Pettigrew, P.E., Regional Representative, Field Operations Branch, ATSDR
DOCUMENT TYPE: ROC
DOCUMENT TITLE: Meeting EPA Region 6, ESD, ERB and ATSDR for the purpose of discussing possible removal actions at the Jensen Drive Drum site, which is adjacent to a residential area and a school.

DOCUMENT NUMBER: 000112 - 000112
DOCUMENT DATE: 12/12/88
NUMBER OF PAGES: 1
AUTHOR: Pat Hammack, OSC, ERB
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: U.S. EPA Region 6 Site Files
DOCUMENT TYPE: ROC
DOCUMENT TITLE: Conversation with Mr. Wayne Biettge of Mil Park Co., who had general questions about the Jensen Dr. Drum Site.

DOCUMENT NUMBER: 000113 - 000117
DOCUMENT DATE: 12/12/88
NUMBER OF PAGES: 5
AUTHOR: TAT Consultants
COMPANY/AGENCY: Ecology and Environment, Inc.
RECIPIENT: U.S. EPA Region 6 Site Files
DOCUMENT TYPE: Sketches
DOCUMENT TITLE: Sketches of the Jensen Dr. Drum Site which show the proximity of the site to residences and of drums and other objects.

DOCUMENT NUMBER: 000118 - 000118
DOCUMENT DATE: 12/12/88
NUMBER OF PAGES: 1
AUTHOR: Pat Hammack, OSC, ERB
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: U.S. EPA Region 6 Site Files
DOCUMENT TYPE: ROC
DOCUMENT TITLE: Conversation with Asst. General Counsel for Ashland Oil, Mr. Jeff Raines. The demand letter was read to him, by OSC, who was told by Mr. Raines, that someone else would contact him by late afternoon.

ADMINISTRATIVE RECORD INDEX

FINAL

SITE NAME: JENSEN ROAD DRUMS
SITE NUMBER: TXD K9

DOCUMENT NUMBER: 000119 - 000119
DOCUMENT DATE: 12/12/88
NUMBER OF PAGES: 1
AUTHOR: Pat Hammack, OSC, ERB
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: U.S. EPA Region 6 Site Files
DOCUMENT TYPE: ROC
DOCUMENT TITLE: Conversation with Mr. Ted Kazantzis, of Hinds Pottery, who denies that his company is liable for the hazardous situation at the Jensen Dr. Drum Site. Hinds will not participate in cleanup activities.

DOCUMENT NUMBER: 000120 - 000120
DOCUMENT DATE: 12/12/88
NUMBER OF PAGES: 1
AUTHOR: Pat Hammack, OSC, ERB
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: U.S. EPA Region 6 Site Files
DOCUMENT TYPE: ROC
DOCUMENT TITLE: Conversation with Charles Hinds, President of Hinds Pottery, Inc. concerning an explanation of the demand letter. The call was referred to Mr. T. Kazantzis, who is now the acting agent for the firm.

DOCUMENT NUMBER: 000121 - 000121
DOCUMENT DATE: 12/12/88
NUMBER OF PAGES: 1
AUTHOR: Pat Hammack, OSC, ERB
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: U.S. EPA Region 6 Site Files
DOCUMENT TYPE: ROC
DOCUMENT TITLE: Second conversation with Mr. Warren Gafford, of Ethyl Corporation, who stated that his company has no knowledge of the May Cooperage and declines to participate in the cleanup.

DOCUMENT NUMBER: 000122 - 000122
DOCUMENT DATE: 12/12/88
NUMBER OF PAGES: 1
AUTHOR: Steven L. Parker, Attorney, ORC
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: U.S. EPA Region 6 Site Files
DOCUMENT TYPE: ROC
DOCUMENT TITLE: Log of phone calls made in an attempt to reach Mr. R.J. Gray in Lufkin, TX, regarding removal activities at the Jensen Dr. Drum Site.

ADMINISTRATIVE RECORD INDEX

FINAL

| | |
|---|---|
| SITE NAME: | JENSEN ROAD DRUMS |
| SITE NUMBER: | TXD K9 |
| DOCUMENT NUMBER: | 000123 - 000128 |
| DOCUMENT DATE: | 12/12/88 |
| NUMBER OF PAGES: | 6 |
| AUTHOR: | Patrick L. Hammack, OSC, ERB/Site Investigation Section |
| COMPANY/AGENCY: | U.S. EPA Region 6 |
| RECIPIENT: | Robert E. Layton, Jr., P.E., Regional Administrator, U.S. EPA Region 6 |
| DOCUMENT TYPE: | Action Memorandum |
| DOCUMENT TITLE: | The proposed action involves the stabilization, categorization and temporary relocation on site, of approximately two hundred drums containing various unknown solvents, acids, corrosives, etc. |

MICHAEL TAORMINA

Original

# PHONE CONVERSATION RECORD

Conversation with:

Name: PAT HAMMACK

Company: EPA - DALLAS

Address:

Phone: 214-655-2270

Date: 81 / 6 / 88

Time: 1235 AM/PM

✓ Originator Placed Call

___ Originator Received Call

W.O. No.:

Subject: JENSEN ST. / DAVIS ST. DRUM SITES

Notes: Purpose: To get preliminary information on the operation at these sites - what to expect and how to approach the job.

Result: Ms. Fred Winston of May Corporation came both sites.

The Jensen St site is an open lot with about 35 drums that have been vented with an ax. Ten samples - drum and soil will be taken there.

The Davis St site has about 150 drums none of which are open. Some are under protection some are bulging. Ten samples - drum and soil are to be taken here also.

The object of the sampling is to determine if hazardous material are present or not.

___ File:

___ Tickle File: ___/___/___

___ Follow-Up By:

___ Copy/Route To:

Follow-Up Action: Visit site and plan sampling plan.

Originator's Initials: [illegible]

K9- 0001

Aug 19, 1988 Friday
Weather - overcast, humid
0935 TATs Tarrance, Wisnewski and Yeager leave office for Jensen St Drum site. TAT will stop at Davis St site first
1052 Arrive at 3116 Jensen St. TAT spoke with Charles of Doggett & Workman Auto Parts store located across Jensen Dr. from the site. Mr. Charles stated that the owner of 3116 Jensen Dr., Mr R J Gray did not want unauthorized persons on the property. TAT assured Mr Charles that the EPA was just taking a survey and sampling in the near future.

The site is approximately 300 feet by 150 feet. There are abandoned vehicles on the site and up to 200 drums scattered about. There is a large shed in the center of the site about 50 ft by 100 feet. There are drums fiberboard barrels, tires, wood, some car parts and other debris in the warehouse.

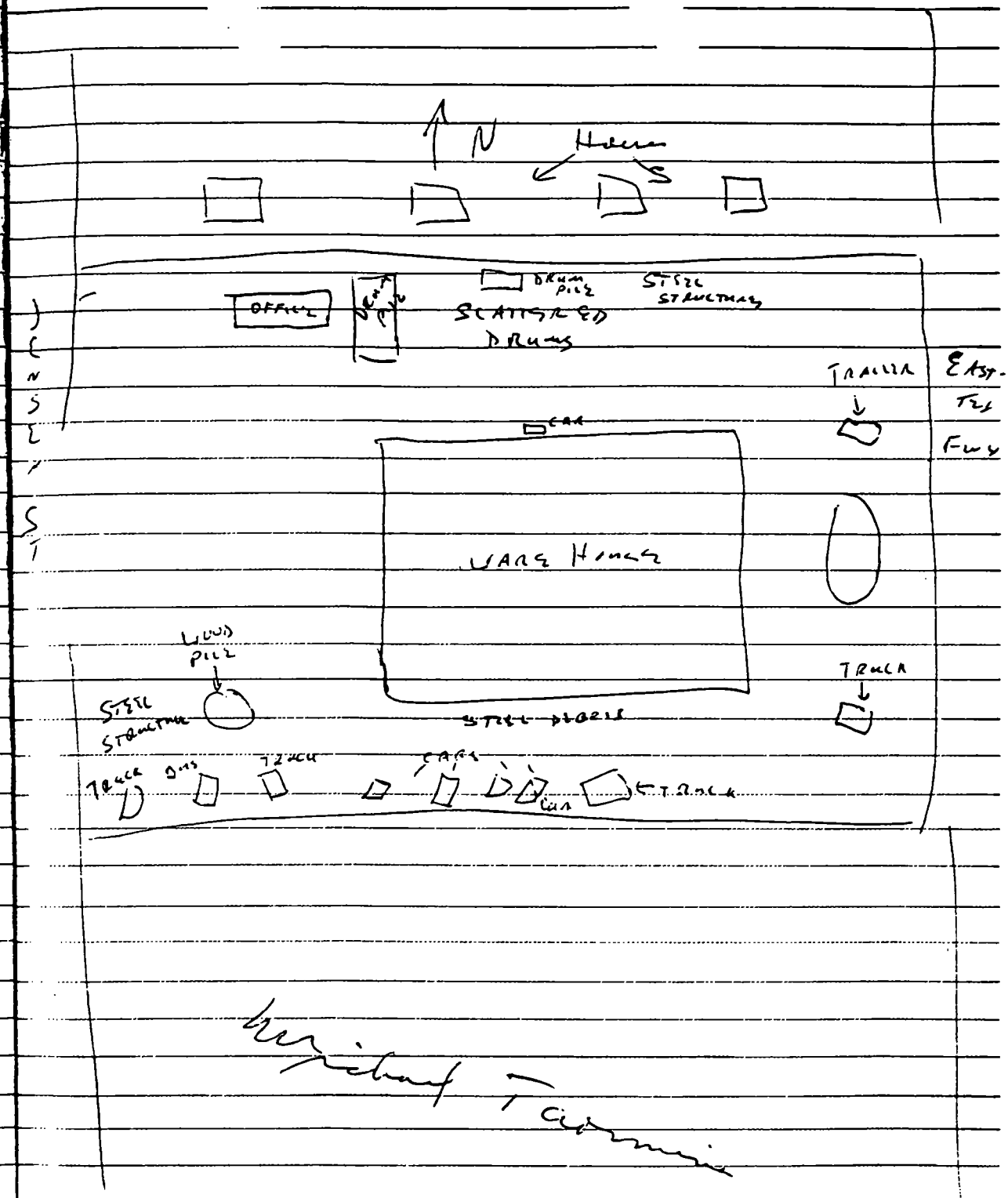
Label on some of the drums indicate that flammable liquids, lacquer, ammonia bicarbonate, corrosive liquid, waste oil and other material were kept in them.

Company names include Reichold Chemical, Chemtron Chemical, Ashland Chemical, PC Wood Beauty.

Drums are made of steel, polyethylene plastic and are in varying stages of decay.

There are compressed gas cylinders present also.

Original Tarrance


N
Hill
S
OFFICE
DRUM PILE
STEEL STRUCTURE
SCATTERED DRUMS
TRAILER
EAST-TEX FWY
CAR
WARE HOUSE
WOOD PILE
STEEL STRUCTURE
TRUCK
STEEL DOORS
TRUCK
DRUMS
TRUCK
CARS
CAR
TRUCK

Most of the drums are not sealed & bungs have been removed

1056 Sign in front of property from W. photo #1

1102 #2-4 pan of drums at rear of property

1103 #5 label on drum at rear of property from E

1104 #6 A/A from E

1105 #7+8 drums in bldg.

1107 film roll #2, photo #1-3 pan of drum in NW corner

1108 #4 liquid on ~~side~~ ground on N side of bldg from NW

1108 #5 A/A from N

1108 #6 stacked 20 gallon drums on N side of property from N

1111 #7 chemical stain on ground from W

1112 #8 herbicide drum from W

1112 #9 drums in warehouse - note large plastic containers from E

1115 #10 drums on southern boundary of property from E

1117 #11 chemicals stains in puddle, near SE corner of bldg. from W

1118 #12 Dumpster containing chemicals from S

1119 #13-15 pan of SE section of property - note stained soil from E.

1122 #16 E side of property from W

1127 #17 picture of sign from NW.

1130 Leave site to return to office.

Michael C. Tarring

Monday August 22, 1988

1305 Arrive at Lemon St site. TATs, Taormina, Winiecki + OSC Hammock are present
The Victoreen is giving reading 0.1 and greater before entering the site.

1320 Left site for office

1400 Arrived at Houston TAT office. TATs Taormina, Winiecki, Hogue, McLaughlin and OSC Hammock discussed how to approach the problem. Since the RAM IV and the Victoreen Thyrac did not give comparable readings, it was decided to try and get more sensitive ~~equipment~~ radiation monitoring instrumentation.
OSC Hammock contacted the Texas
, and asked for assistance.
agreed and would meet TAT at the Davis St site at 0800 on Tuesday August 23.

Tuesday August 30, 1988
Weather - 70's rising to ~90°F, wind N, 5-10 mph slightly overcast.

0715 TAT Taormina arrive at E+E warehouse
0720 TAT Winiecki arrive at E+E warehouse
0730 TAT Hogue arrives at E+E warehouse
Load Suburban with SCBAs instruments + expendables

0750 Leave for E+E office
0810 Arrive at E+E office
0815 Leave E+E office
0840 Stop for breakfast
0855 Leave for site
0920 Arrive at site pick up key from Charles Lee.
Get Doggett + Workman Auto Parts opposite site

Ted C. Taormina

25 Enter site and see at face level

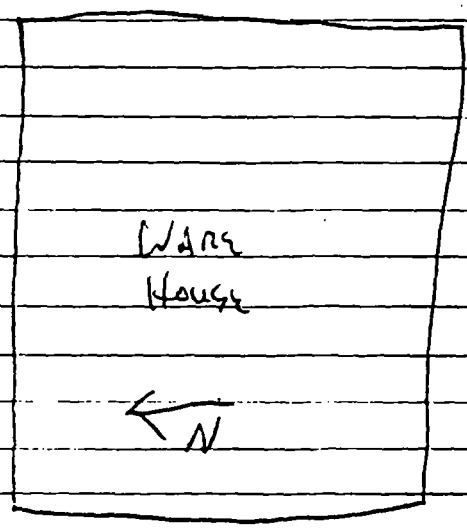
1015 HNU & PAID #

1023 143/104 98.6

1030 Taormina, Wisniewski enter hot zone level C.

| | HNU | EXP/O2 | RAD |
|---|---|---|---|
| 1 | bg | bg | bg |
| 2 | bg | bg | bg |
| 3 | bg | bg | bg |
| 4 | bg | bg | bg |
| | (30) 6 | 7 (63) | 8 (25) |

3 (22)

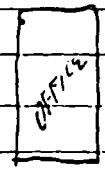



Drums (~45) 4 (6)

Drums (~45) 3

Drums (~40) 2

1

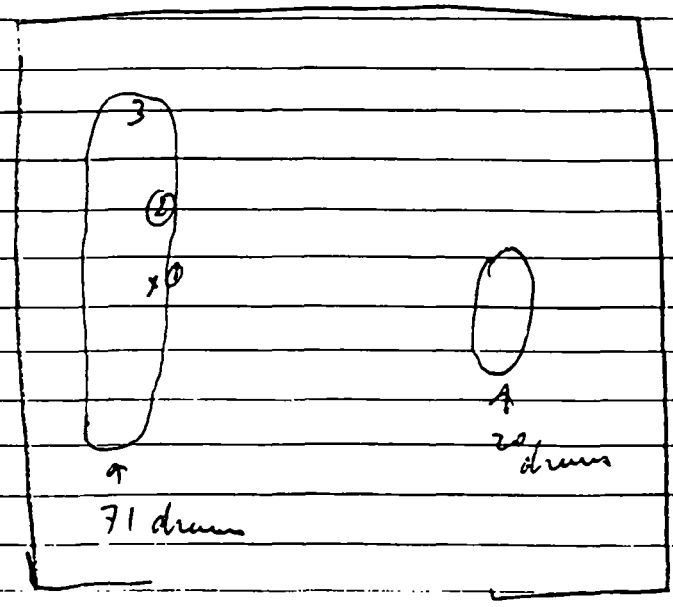



1035 OSC Hammack arrives on site

1115 Taormina + Wisniewski leave hot zone

1130 Taormina + Hammack go to get supplies

| | HNU | CAP/O2 | RAD |
|---|---|---|---|
| 5 | 5 | BG | bg |
| 6 | bg | bg | bg |
| 7 | 5 | bg | bg |
| 8 | 3 | bg | bg |
| 9 | bg | bg | bg |
| 10 | bg | bg | bg |




● rusted drum 110 ppm HNU
⊙ 7 intact cardboard drums 15
⊙ near E end, open drum 50 ppm

1145 Tarmina & Hammel return to site
1210 Tarmina, Winiski & Herrera enter warehouse in Level B
1230 Tarmina Winiski & Herrera exit warehouse
1250 put up instruments to leave for lunch

Mr. Tarmina

15 leave for lunch
1435 return to site
1445 commenced survey - made sketches of drum location, took a drum count and marked drums that had any substance. Took down information that was labelled on the drum
1540 finished taking drum survey of drums outside of warehouse - took break
1555 TAT team entered warehouse to survey drums there
1618 exited warehouse
1630 left site
1710 arrived at C+E warehouse
1730 left warehouse
Wednesday August 31, 1988
0730 TAT Taormina arrive at E+C office & pick up phone, paperwork & other material
0735 leave for warehouse
0755 Arrive at warehouse TAT Wisniski already there
0800 TAT HERRERA arrive. Lead Substance.
0830 leave Warehouse
0820 Arrive at site OSC Hamrick on site
0830 Set up tarp & material.
0959 H&S meeting. Held by TAT Wisniski
1030 TATS Taormina + Wisniski dress out in level 'B' to sample drums
1040 Start sample drum ~~[illegible]~~ #82 unlabelled
1047 End sampled drum #82
1055 Exit site, decon, dress down, rest
1140 Persons from Doggett + Vorhees Auto Parts entered site & removed a trailer - Mr. Valentine

removed the trucks
1150 Doggett personnel leave site.
1205 Dress out level B to continue sampling drum
1215 Begin taking sample from drum #82 for 2nd sample bottle
1222 End sample for 2nd sample bottle at drum #82 pH 13
1225 Check other drums for sample-able material most have crystals in them.
1232 begin sample drum to the east of drum #32 ↓ Termed drum 32A
1237 end sample drum 32A ~~pH 13~~
1245 TAT Tavernia samples material ~~of~~ on ~~ground~~ concrete pad in NE section of property / TAT Wisniski samples soil near center drums in SE section of site. OSC Hammond accompanies TAT Tavernia + TAT Herrera accompanies TAT Wisniski
1252 End sample of ground material in NE + SE parts of site.
1258 Go back to command post decon, dress down rest
1315 TATs Wisniski, Herrera + OSC Hammond leave for break. TAT Tavernia remain at command post.
Note substance on concrete pad is dolomite oily + tarry.
~~1110~~ 1610 TATs Wisniski, Herrera + OSC Hammond arrive back on site — They had trouble finding a place to fill the SCBA ~~tanks~~ tanks.
Michael Tavernia

1600 Secure area pad [illegible] leave. Chain of custody & labelling complete
1650 Exit site
1730 Arrive S+S Warehouse - put up vehicle organize supplies
1750 End day
Thursday September 1, 1988
0720 TAT Tasmin arrive at warehouse
0730 TAT Wisniski arrive at warehouse
0740 TAT Herrera arrive at warehouse
0745 Leave warehouse for EPA lab.
0815 Drop off samples at lab.
0820 Pick up coolers at S+S office
0850 Arrive at site
0855 Set up equipment
0925 H+S meeting. Noted hazards connected with drum opening
0935 Scoped out which drum to open
0940 TATS Wisniski + Herrera dress out in level B
1005 Begin sample drum 154
1012 End sample drum 154
1015 Begin sample drum 146
1024 End sample drum 146
1027 Begin sample drum 143
1035 End sample drum 143
1037 exit warehouse dress down-rest
1110 TATS Herrera + Wisniski dress out in level B to finish drum sampling
1124 Begin sample drum # 104 + dup
1135 End sample drum # 104 + dup
1140 begin sample Vat
[illegible], Tasmin

1147 End sample mat - pH 11.
1150 Exit warehouse drum down, decon + secure area
1215 Exit site - lunch - OSC Hammel leaves
1410 Return to Warehouse - complete chain of custody and seal coolers for delivery to EPA lab on Friday morning
1645 TAT Tasmin leaves for home
Note: at 1440 TAT Wisniski leaves
at 1530 TAT Herren leaves

1 Part. Pelican Mud Co

2 Part 3857 W ~~Garland~~ MILLER Garland TX / RIBELIN SALES

3 Part Pelican Mud

4 Part TC / MICRO ZINC

5 Part No label

6 Part ASPHA MUL "NO GOOD"

7 Part MILCHEM 3900 ESSEX LANE, PO BOX 2211 77227

8 Part No label

9
10
11
12
13 Barrow Lake Inc
14 No label
15
16

~~1 1105 Soil, sludge pile, near SW drum pile~~

~~2 1115 Soil, center of site, black material~~

~~3 1123 Soil, paint spill, NE section~~

~~4 1223 Sludge, TDC drum, NE section~~

~~5 1230 Soil, near dead tree, SE corner section~~

~~6 1238 Soil, NW corner~~

~~7 1248 Soil, near brown paint spill, E end center~~

~~7 DUP 1356 Soil dup brown paint spill, E end center~~

8 1356 Soil, near NE K drum, SW drum pile

9 1356 Soil, NE area of drum at S end

---

1445
1540
1655 entered warehouse
1618 exited warehouse
1630 left site

DRUM - BLUE
DRUM - OPEN
SOIL
BLUE - DR.

2

K9-0013

(1) Pelican mudd Co 713 952 7400
(2) Ribbelin
(3) Pelican
(4) No labels leaking
(5) No labels
(6) Asphalt mul
(7) Mil chem 390 Essex hn P.O Box 22111 Ho
Carbo-tex °-L
(8) No label
(9) No labels partial
(10) No Labels partial
(11) No labels partial
(12) No " "
(13) Banner Labs Inc
(14) No L P
(15) N L P
(16) Health 2 F 3 React 2 PPE 1
Polyester styrene vinyl toluene acrylate monomer
UN 1866 ? UN 1860
17 P aircraft Lab ODDE Control Compound
18 P
19 P
20 F No L appears to be oil.
21 Black lacquer hazardous flammable liq
22 UN 2735 methylimidazole
23 same
24 Ashland oil
25 Same

K9-0014

(26) paint F UN 1263 Car products contain Dne
houston

(27) same F

28 same F

(29) Ashland oil UN 1866

(30) same (29)

(31) (27) (28)

(32) Unk solid

(33) Ash UN 1866

(34) NL partial open

(35) Ashland

(36) Ash

(37) Ash

(38) Ash

(39) Ash

(40) Ash 5

(41) Conoco Houston EPA waste # 189 or 89 (P)
9825
Txd 9815 44230

(42) Ash lacquer

(52) empty pile Truck

(56)

26 P
22 P
N N 23 N
N 24 24 25 N
N 34 N
N N N

le
o

(43) Ash

(44) Ash

(45) ~~Ash~~ Laquer PC paint

(46) Hines pottery 10050 west gulf bank Dr
Houston Ashland product

(47) Ash shipped to Hines potter
Suite un opp opened

(48) Waste partial rainwater

(49) Reichhold Chem leaking → UN 1866

(50) Houston Tx →
Flammable liquid polyester Resin
styrene
525 N. Broadway white Plains NY
Reichhold performance technology

(51) 1866 UN Ash chem

(52) PC Specility system Laquer

(53) chemtron chemical Fresno Ca.
UN1866 unsatu polyester resin vinyl toluen
acrelate monomer styrene

(54) Ashland

(55) Waste poliner solid open

(56) PC

(57) partial resin rylel sludge

(58) smell [illegible]
waste NN
~~partial NF~~ 1760 corr. 8 proxelgxl
(59) 05198 product code
Imperial Chemical
Specialty chem
Manchester England
(59) 1760
(60) ~~[illegible]~~ 15 unnumbered corrosive liq NOS
visible stain 2 yards
~~and~~ odor
(74)
(75) → NL ~~[illegible]~~ UNK
(76) UNK
(77) partial unk
(78) F unknown
(79) Full unkn leaking
(80) Full unkn
(81) Un 1790 corroding drum R $H_2SO_4$
(82) Unk F
(83) Ethyl Corp BPAL 20+ Alcohol and
hydrocarbon /oils

2nd tran.
(60) Proxel GXL Specialty Chem

2nd trailer spill

(84) Unk not oil F

(85) Unk F

(86) F Unk

(87) " "

(88) un 1933 F → Ashland cten
across from little building.

~~Building~~

~~1780 Pom Pl Ams~~

Building

tank : 190 gallons ~~waste oil~~ unk

(26) ~~[illegible]~~ ~~bated~~ bulging

all barrels have the labels painted over

room flam liq

toluene bucket empty

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON, TEXAS 77074

MEMORANDUM

Date: 9/30/88

Subject: Organic Laboratory Results for Jensen St. Drum Site (8TFAKC46)

From: Michael Daggett, Chief, Organic Lab Section; 6E-HL

To: Diana Ayers, Chief, Houston Branch; 6E-H

Attached are the Organic Laboratory results for samples 8TFAKC4601 through 8TFAKC4610. These samples were analyzed for ABNs only.

This is a final report.

Attachments

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te: 10/14/88

Appendix L

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 8TFAKC46 Date Recvd: 09/01/88 Date Collected: 08/31/88
Sample Number: 1 Time Recvd: 08:30 Time Collected: 10:47

Source: Jensen St. Drum Site Tag Number:
Site Description: Drum # 82, unlabelled Sta # 1
Sample Type: WATER
Sample Retention:

Param- Organic: ABN
Metals: HSL
Inorganic:
Biology:

Due Date: 10/06/88
Date Projected: 10/06/88
ate Completed: / /
omment:
Your Initials: RLR

Attachment 1

# ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: BTFAKC46-01 DATE REPORTED: 9/30/88

SAMPLE TYPE: WATER ANALYST: MARVELYN HUMPHREY

## HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

| COMPOUND | ug/L | COMPOUND | ug/L |
|---|---|---|---|
| Phenol | nd dl=440 | Acenaphthene | nd dl=220 |
| bis(2-Chloroethyl) Ether | nd dl=220 | 2,4-Dinitrophenol | nd dl=330 |
| 2-Chlorophenol | nd dl=440 | 4-Nitrophenol | nd dl=880 |
| 1,3-Dichlorobenzene | nd dl=220 | Dibenzofuran | nd dl=220 |
| 1,4-Dichlorobenzene | nd dl=220 | 2,4-Dinitrotoluene | nd dl=660 |
| Benzyl Alcohol | nd dl=440 | 2,6-Dinitrotoluene | nd dl=660 |
| 1,2-Dichlorobenzene | nd dl=220 | Diethylphthalate | nd dl=220 |
| 2-Methylphenol | nd dl=660 | 4Chlorophenylphenyl Ether | nd dl=880 |
| bis(2-chloroisopropyl)Ether | nd dl=220 | Fluorene | nd dl=220 |
| 4-Methylphenol | nd dl=660 | 4-Nitroaniline | nd dl=880 |
| N-Nitroso-Di-n-Propylamine | nd dl=660 | 4,6-Dinitro-2-Methylphenol | nd dl=2200 |
| Hexachloroethane | nd dl=220 | N-Nitrosodiphenylamine | nd dl=440 |
| Nitrobenzene | nd dl=220 | 4-Bromophenylphenyl Ether | nd dl=880 |
| Isophorone | nd dl=440 | Hexachlorobenzene | nd dl=220 |
| 2-Nitrophenol | nd dl=1100 | Pentachlorophenol | nd dl=1650 |
| 2,4-Dimethylphenol | nd dl=660 | Phenanthrene | nd dl=220 |
| Benzoic Acid | nd dl=1100 | Anthracene | nd dl=220 |
| bis(2-Chloroethoxy)Methane | nd dl=220 | Di-n-Butylphthalate | nd dl=220 |
| 2,4-Dichlorophenol | nd dl=660 | Fluoranthene | nd dl=220 |
| 1,2,4-trichlorobenzene | nd dl=220 | Benzidine | nd dl=2200 |
| Naphthalene | nd dl=220 | Pyrene | nd dl=220 |
| 4-Chloroaniline | nd dl=440 | Butylbenzylphthalate | nd dl=440 |
| Hexachlorobutadiene | nd dl=220 | 3,3'-Dichlorobenzidine | nd dl=1100 |
| 4-Chloro-3-Methylphenol | nd dl=880 | Benzo(a)Anthracene | nd dl=880 |
| 2-Methylnaphthalene | nd dl=220 | bis(2-Ethylhexyl)Phthalate | nd dl=440 |
| Hexachlorocyclopentadiene | nd dl=1100 | Chrysene | nd dl=880 |
| 2,4,6-Trichlorophenol | nd dl=660 | Di-n-Octyl Phthalate | nd dl=440 |
| 2,4,5-Trichlorophenol | nd dl=660 | Benzo(b)Fluoranthene | nd dl=880 |
| 2-Chloronaphthalene | nd dl=220 | Benzo(k)Fluoranthene | nd dl=880 |
| 2-Nitroaniline | nd dl=880 | Benzo(a)Pyrene | nd dl=880 |
| DimethylPhthalate | nd dl=220 | Indeno(1,2,3-cd) Pyrene | nd dl=880 |
| Acenaphthylene | nd dl=220 | Dibenzo(a,h)Anthracene | nd dl=880 |
| 3-Nitroaniline | nd dl=880 | Benzo(g,h,i)Perylene | nd dl=880 |

Attachment 1

# ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC46-01 DATE REPORTED: 9/30/88

SAMPLE TYPE: WATER

ANALYST: MARVELYN HUMPHREY

## TENTATIVE COMPOUNDS BY METHODS 625

| SCAN# | CAS # | EST. CONC (ug/l) | COMPOUND NAME |
|---|---|---|---|
| 384 | | 4,280 | UNKNOWN |
| 635 | | 356,000 | UNKNOWN |
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* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BES MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION
* Estimated concentration is based on a RF of 1.0 to internal standard !

US EPA HOUSTON BRANCH

| | | | |
|---|---|---|---|
| SAMPLE #: | 8TFAKC46-01 | DATE RECEIVED: | 01-Sep-88 |
| SOURCE: | JENSEN STREET DRUM | | |
| TYPE: | AQUEOUS | DATE REPORTED: | 12-Oct-88 |
| ANALYSTS: | CLARK,FELDMAN | | |

| PARAMETER | CONCENTRATION | DETECTION LIMIT <= | UNITS |
|---|---|---|---|
| ARSENIC | ND | 92 | UG/L |
| SELENIUM | ND | 96 | UG/L |
| THALLIUM | ND | 30 | UG/L |
| MERCURY | * | 0.2 | UG/L |
| SILVER | ND | 20 | UG/L |
| BERYLLIUM | ND | 10 | UG/L |
| CADMIUM | 18 | 10 | UG/L |
| CHROMIUM | ND | 20 | UG/L |
| COPPER | 388 | 40 | UG/L |
| NICKEL | ND | 40 | UG/L |
| LEAD | ND | 60 | UG/L |
| ZINC | 661 | 10 | UG/L |
| ALUMINUM | ND | 200 | UG/L |
| BARIUM | ND | 20 | UG/L |
| COBALT | ND | 40 | UG/L |
| IRON | 83 | 50 | UG/L |
| MANGANESE | ND | 10 | UG/L |
| VANADIUM | ND | 60 | UG/L |
| ANTIMONY | 520 | 120 | UG/L |
| SODIUM | ND | 1000 | UG/L |
| POTASSIUM | ND | 2000 | UG/L |
| CALCIUM | ND | 300 | UG/L |
| MAGNESIUM | ND | 300 | UG/L |

* : UNABLE TO ANALYZE DUE TO STRONG INTERFERENCE

ND: NOT DETECTED

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ate: 10/14/88

Appendix 2

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 8TFAKC46 Date Recvd: 09/01/88 Date Collected: 08/31/88
Sample Number: 2 Time Recvd: 08:30 Time Collected: 12:37

Source: Jensen St. Drum Site Tag Number:
Site Description: Drum # 32A, Sta # 2
Sample Type: WATER
Sample Retention:

Param- Organic: ABN
Metals: HSL
Inorganic:
Biology:

Due Date: 10/06/88
Date Projected: 10/06/88
ate Completed: / /
omment:
Your Initials: RLR

K9-0025

Attachment 2

# ORGANIC ANALYSIS DATA

SES-HL SAMPLE NO.: BTFAKC46-02 DATE REPORTED: 9/30/88

SAMPLE TYPE: WATER ANALYST: MARVELYN HUMPHREY

## HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

| COMPOUND | ug/L | COMPOUND | ug/L |
|---|---|---|---|
| Phenol | nd dl=100 | Acenaphthene | nd dl= 50 |
| bis(2-Chloroethyl) Ether | nd dl= 50 | 2,4-Dinitrophenol | nd dl=750 |
| 2-Chlorophenol | nd dl=100 | 4-Nitrophenol | nd dl=200 |
| 1,3-Dichlorobenzene | nd dl= 50 | Dibenzofuran | nd dl= 50 |
| 1,4-Dichlorobenzene | nd dl= 50 | 2,4-Dinitrotoluene | nd dl=150 |
| Benzyl Alcohol | 17,800 | 2,6-Dinitrotoluene | nd dl=150 |
| 1,2-Dichlorobenzene | nd dl= 50 | Diethylphthalate | nd dl= 50 |
| 2-Methylphenol | nd dl=150 | 4-Chlorophenylphenyl Ether | nd dl=200 |
| bis(2-chloroisopropyl)Ether | nd dl= 50 | Fluorene | nd dl= 50 |
| 4-Methylphenol | nd dl=150 | 4-Nitroaniline | nd dl=200 |
| N-Nitroso-Di-n-Propylamine | nd dl=150 | 4,6-Dinitro-2-Methylphenol | nd dl=500 |
| Hexachloroethane | nd dl= 50 | N-Nitrosodiphenylamine | nd dl=100 |
| Nitrobenzene | nd dl= 50 | 4-Bromophenylphenyl Ether | nd dl=200 |
| Isophorone | nd dl=100 | Hexachlorobenzene | nd dl= 50 |
| -Nitrophenol | nd dl=250 | Pentachlorophenol | nd dl=375 |
| 2,4-Dimethylphenol | 366 | Phenanthrene | nd dl= 50 |
| Benzoic Acid | nd dl=250 | Anthracene | nd dl= 50 |
| bis(2-Chloroethoxy)Methane | nd dl= 50 | Di-n-Butylphthalate | nd dl= 50 |
| 2,4-Dichlorophenol | nd dl=150 | Fluoranthene | nd dl= 50 |
| 1,2,4-trichlorobenzene | nd dl= 50 | Benzidine | nd dl=500 |
| Naphthalene | nd dl= 50 | Pyrene | nd dl= 50 |
| 4-Chloroaniline | nd dl=100 | Butylbenzylphthalate | nd dl=100 |
| Hexachlorobutadiene | nd dl= 50 | 3,3'-Dichlorobenzidine | nd dl=250 |
| 4-Chloro-3-Methylphenol | nd dl=200 | Benzo(a)Anthracene | nd dl=200 |
| 2-Methylnaphthalene | nd dl= 50 | bis-(2-Ethylhexyl)Phthalate | 235 |
| Hexachlorocyclopentadiene | nd dl=250 | Chrysene | nd dl=200 |
| 2,4,6-Trichlorophenol | nd dl=150 | Di-n-Octyl Phthalate | nd dl=100 |
| 2,4,5-Trichlorophenol | nd dl=150 | Benzo(b)Fluoranthene | nd dl=200 |
| 2-Chloronaphthalene | nd dl= 50 | Benzo(k)Fluoranthene | nd dl=200 |
| 2-Nitroaniline | nd dl=200 | Benzo(a)Pyrene | nd dl=200 |
| DimethylPhthalate | nd dl= 50 | Indeno(1,2,3-cd) Pyrene | nd dl=200 |
| Acenaphthylene | nd dl= 50 | Dibenzo(a,h)Anthracene | nd dl=200 |
| 3-Nitroaniline | nd dl=200 | Benzo(g,h,i)Perylene | nd dl=200 |

Attachment 2

ORGANIC ANALYSIS DATA

SES-HL SAMPLE NO.: 8TFAKC46-02 DATE REPORTED: 9/30/88

SAMPLE TYPE: WATER

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHODS 625

| SCAN# | CAS # | EST.CONC (ug/l) | COMPOUND NAME |
|---|---|---|---|
| 115 | 1117762 | 16,500 | 2-BUTOXY-ETHANOL |
| 150 | | 140 | UNKNOWN |
| 399 | | 700 | UNKNOWN |
| 414 | | 435 | UNKNOWN |
| 436 | 149575 | 340 | 2-ETHYL-HEXANOIC ACID |
| 459 | | 750 | UNKNOWN |
| 464 | 112345 | 365 | 2-(2-BUTOXYETHOXY)-EHANOL |
| 495 | | 600 | UNKNOWN |
| ✓ 515 | 18636341 | 515 | BENZOIC ACID,ammonium salt |
| 568 | 99047 | 125 | 3-METHYL,BENZOIC ACID |
| 582 | | 500 | UNKNOWN |
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* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
* Estimated concentration is based on a RF of 1.0 to internal standard !

US EPA HOUSTON BRANCH

| | | | |
|---|---|---|---|
| SAMPLE #: | 8TFAKC46-02 | DATE RECEIVED: | 01-Sep-88 |
| SOURCE: | JENSEN STREET DRUM | | |
| TYPE: | AQUEOUS | DATE REPORTED: | 12-Oct-88 |
| ANALYSTS: | CLARK,FELDMAN | | |

| PARAMETER | CONCENTRATION | DETECTION LIMIT <= | UNITS |
|---|---|---|---|
| ARSENIC | ND | 92 | UG/L |
| SELENIUM | ND | 96 | UG/L |
| THALLIUM | ND | 30 | UG/L |
| MERCURY | ND | 0.2 | UG/L |
| SILVER | ND | 20 | UG/L |
| BERYLLIUM | ND | 10 | UG/L |
| CADMIUM | ND | 10 | UG/L |
| CHROMIUM | **106** | 20 | UG/L |
| COPPER | **88** | 40 | UG/L |
| NICKEL | **52** | 40 | UG/L |
| LEAD | **269** | 60 | UG/L |
| ZINC | **448** | 10 | UG/L |
| ALUMINUM | ND | 200 | UG/L |
| BARIUM | **122** | 20 | UG/L |
| COBALT | **1800** | 40 | UG/L |
| IRON | **20700** | 50 | UG/L |
| MANGANESE | **2990** | 10 | UG/L |
| VANADIUM | ND | 60 | UG/L |
| ANTIMONY | **356** | 120 | UG/L |
| SODIUM | **124000** | 1000 | UG/L |
| POTASSIUM | **20100** | 2000 | UG/L |
| CALCIUM | **52900** | 300 | UG/L |
| MAGNESIUM | **424000** | 300 | UG/L |

ND: NOT DETECTED

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ıte: 10/14/88

Appendix 3

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 8TFAKC46 Date Recvd: 09/01/88 Date Collected: 08/31/88
Sample Number: 3 Time Recvd: 08:30 Time Collected: 12:52

Source: Jensen St. Drum Site Tag Number:
Site Description: NE ground material, Sta # 3
Sample Type: SOIL
Sample Retention:

Param- Organic: ABN
Metals: HSL
Inorganic:
Biology:

Due Date: 10/06/88
Date Projected: 10/06/88
`ate Completed: / /
omment:
Your Initials: RLR

K9-0029

Attachment 3

ORGANIC ANALYSIS DATA

SES-HL SAMPLE NO.: BTFAKC46-03 DATE REPORTED: 9/30/88

SAMPLE TYPE: SOIL ANALYST: MARVELYN HUMPHREY

HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

| COMPOUND | ug/KG | | COMPOUND | ug/KG | |
|---|---|---|---|---|---|
| Phenol | nd | dl= 56000 | Acenaphthene | nd | dl= 28 |
| bis(2-Chloroethyl) Ether | nd | dl= 28000 | 2,4-Dinitrophenol | nd | dl= 42 |
| 2-Chlorophenol | nd | dl= 56000 | 4-Nitrophenol | nd | dl=112 |
| 1,3-Dichlorobenzene | nd | dl= 28000 | Dibenzofuran | nd | dl= 28 |
| 1,4-Dichlorobenzene | nd | dl= 28000 | 2,4-Dinitrotoluene | nd | dl= 84 |
| Benzyl Alcohol | nd | dl= 56000 | 2,6-Dinitrotoluene | nd | dl= 84 |
| 1,2-Dichlorobenzene | nd | dl= 28000 | Diethylphthalate | nd | dl= 28 |
| 2-Methylphenol | nd | dl= 84000 | 4-Chlorophenylphenyl Ether | nd | dl=112000 |
| bis(2-chloroisopropyl)Ether | nd | dl= 28000 | Fluorene | nd | dl= 28000 |
| 4-Methylphenol | nd | dl= 84000 | 4-Nitroaniline | nd | dl=112000 |
| N-Nitroso-Di-n-Propylamine | nd | dl= 84000 | 4,6-Dinitro-2-Methylphenol | nd | dl= 28000 |
| Hexachloroethane | nd | dl= 28000 | N-Nitrosodiphenylamine | nd | dl= 56000 |
| Nitrobenzene | nd | dl= 28000 | 4-Bromophenylphenyl Ether | nd | dl=112000 |
| Isophorone | nd | dl= 56000 | Hexachlorobenzene | nd | dl= 28000 |
| 2-Nitrophenol | nd | dl=140000 | Pentachlorophenol | nd | dl=210000 |
| 2,4-Dimethylphenol | nd | dl= 84000 | Phenanthrene | nd | dl= 28000 |
| Benzoic Acid | nd | dl=140000 | Anthracene | nd | dl= 28000 |
| bis(2-Chloroethoxy)Methane | nd | dl= 28000 | Di-n-Butylphthalate | nd | dl= 28000 |
| 2,4-Dichlorophenol | nd | dl= 84000 | Fluoranthene | nd | dl= 28000 |
| 1,2,4-trichlorobenzene | nd | dl= 28000 | Benzidine | nd | dl= 28000 |
| Naphthalene | nd | dl= 28000 | Pyrene | nd | dl= 28000 |
| 4-Chloroaniline | nd | dl= 56000 | Butylbenzylphthalate | nd | dl= 56000 |
| Hexachlorobutadiene | nd | dl= 28000 | 3,3'-Dichlorobenzidine | nd | dl=140000 |
| 4-Chloro-3-Methylphenol | nd | dl= 11200 | Benzo(a)Anthracene | nd | dl=112000 |
| 2-Methylnaphthalene | 28,500 | | bis(2-Ethylhexyl)Phthalate | nd | dl= 56000 |
| Hexachlorocyclopentadiene | nd | dl=140000 | Chrysene | nd | dl=112000 |
| 2,4,6-Trichlorophenol | nd | dl= 84000 | Di-n-Octyl Phthalate | nd | dl= 56000 |
| 2,4,5-Trichlorophenol | nd | dl= 84000 | Benzo(b)Fluoranthene | nd | dl=112000 |
| 2-Chloronaphthalene | nd | dl= 28000 | Benzo(k)Fluoranthene | nd | dl=112000 |
| 2-Nitroaniline | nd | dl=112000 | Benzo(a)Pyrene | nd | dl=112000 |
| DimethylPhthalate | nd | dl= 28000 | Indeno(1,2,3-cd) Pyrene | nd | dl=112000 |
| Acenaphthylene | nd | dl= 28000 | Dibenzo(a,h)Anthracene | nd | dl=112000 |
| 3-Nitroaniline | nd | dl=112000 | Benzo(g,h,i)Perylene | nd | dl=112000 |

Attachment 3

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: STFAKC46-03 DATE REPORTED: 9/30/88

SAMPLE TYPE: SOIL

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHODS 625

| SCAN# | CAS # | EST.CONC (ug/Kg) | COMPOUND NAME |
|---|---|---|---|
| THIS SAMPLE CONTAINS A VARIETY OF UNKNOWN | | | |
| HYDROCARBONS RANGING FROM SCAN # 359 TO SCAN # 1263. | | | |
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* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
* Estimated concentration is based on a RF of 1.0 to internal standard !

US EPA HOUSTON BRANCH

| | | | |
|---|---|---|---|
| SAMPLE #: | 8TFAKC46-03 | DATE RECEIVED: | 01-Sep-88 |
| SOURCE: | JENSEN STREET DRUM | | |
| TYPE: | SOIL | DATE REPORTED: | 12-Oct-88 |
| ANALYSTS: | CLARK,FELDMAN | | |

| PARAMETER | CONCENTRATION | DETECTION LIMIT <= | UNITS |
|---|---|---|---|
| ARSENIC | ND | 4.1 | MG/KG |
| SELENIUM | ND | 4.2 | MG/KG |
| THALLIUM | ND | 1.3 | MG/KG |
| MERCURY | ND | 0.1 | MG/KG |
| SILVER | ND | 1.1 | MG/KG |
| BERYLLIUM | 3 | 0.5 | MG/KG |
| CADMIUM | 1 | 0.5 | MG/KG |
| CHROMIUM | 17 | 1.1 | MG/KG |
| COPPER | 34 | 2.1 | MG/KG |
| NICKEL | 17 | 2.1 | MG/KG |
| LEAD | 158 | 3.2 | MG/KG |
| ZINC | 381 | 0.5 | MG/KG |
| ALUMINUM | 2360 | 11 | MG/KG |
| BARIUM | 182 | 1.1 | MG/KG |
| COBALT | 4 | 2.1 | MG/KG |
| IRON | 27000 | 2.7 | MG/KG |
| MANGANESE | 181 | 0.5 | MG/KG |
| VANADIUM | ND | 3.2 | MG/KG |
| ANTIMONY | 13 | 6.4 | MG/KG |
| SODIUM | 295 | 53 | MG/KG |
| POTASSIUM | 148 | 107 | MG/KG |
| CALCIUM | 28700 | 16 | MG/KG |
| MAGNESIUM | 1520 | 16 | MG/KG |

ND: NOT DETECTED

CONCENTRATIONS REPORTED ON A DRY WEIGHT BASIS

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ate: 10/14/88

Appendix 4

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 8TFAKC46 Date Recvd: 09/01/88 Date Collected: 08/31/88
Sample Number: 4 Time Recvd: 08:30 Time Collected: 12:52

Source: Jensen St. Drum Site Tag Number:
Site Description: SE soil, caustic drums Sta # 4
Sample Type: SOIL
Sample Retention:

Param- Organic: ABN
Metals: HSL
Inorganic:
Biology:

Due Date: 10/06/88
Date Projected: 10/06/88
ate Completed: / /
omment:
Your Initials: RLR

KG-0033

Attachment 4

# ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC46-04 DATE REPORTED: 9/30/88

SAMPLE TYPE: SOIL ANALYST:MARVELYN HUMPHREY

## HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

| COMPOUND | ug/KG | COMPOUND | ug/K |
|---|---|---|---|
| Phenol | nd dl= 68000 | Acenaphthene | nd dl= 34 |
| Bis(2-Chloroethyl) Ether | nd dl= 34000 | 2,4-Dinitrophenol | nd dl=510 |
| 2-Chlorophenol | nd dl= 68000 | 4-Nitrophenol | nd dl=136 |
| 1,3-Dichlorobenzene | nd dl= 34000 | Dibenzofuran | nd dl= 34 |
| 1,4-Dichlorobenzene | nd dl= 34000 | 2,4-Dinitrotoluene | nd dl=10 |
| Benzyl Alcohol | nd dl= 68000 | 2,6-Dinitrotoluene | nd dl=10 |
| 1,2-Dichlorobenzene | nd dl= 34000 | Diethylphthalate | nd dl= 3 |
| 2-Methylphenol | nd dl=102000 | 4-Chlorophenylphenyl Ether | nd dl=136000 |
| bis(2chloroisopropyl)Ether | nd dl= 34000 | Fluorene | nd dl= 34000 |
| 4-Methylphenol | nd dl=102000 | 4-Nitroaniline | nd dl=136000 |
| N-Nitroso-Di-n-Propylamine | nd dl=102000 | 4,6-Dinitro-2-Methylphenol | nd dl=340000 |
| Hexachloroethane | nd dl= 34000 | N-Nitrosodiphenylamine | nd dl= 68000 |
| Nitrobenzene | nd dl= 34000 | 4-Bromophenylphenyl Ether | nd dl=136000 |
| Isophorone | nd dl= 68000 | Hexachlorobenzene | nd dl= 34000 |
| 2-Nitrophenol | nd dl=107000 | Pentachlorophenol | nd dl=255000 |
| 2,4-Dimethylphenol | nd dl=102000 | Phenanthrene | nd dl= 34000 |
| Benzoic Acid | nd dl=107000 | Anthracene | nd dl= 34000 |
| bis(2-Chloroethoxy)Methane | nd dl= 34000 | Di-n-Butylphthalate | nd dl= 34000 |
| 2,4-Dichlorophenol | nd dl=102000 | Fluoranthene | nd dl= 34000 |
| 1,2,4-trichlorobenzene | nd dl= 34000 | Benzidine | nd dl=340000 |
| Naphthalene | nd dl= 34000 | Pyrene | nd dl= 34000 |
| 4-Chloroaniline | nd dl= 68000 | Butylbenzylphthalate | nd dl= 68000 |
| Hexachlorobutadiene | nd dl= 34000 | 3,3'-Dichlorobenzidine | nd dl=170000 |
| 4-Chloro-3-Methylphenol | nd dl=136000 | Benzo(a)Anthracene | nd dl=136000 |
| 2-Methylnaphthalene | nd dl= 34000 | bis(2Ethylhexyl)Phthalate | nd dl= 68000 |
| Hexachlorocyclopentadiene | nd dl=170000 | Chrysene | nd dl=136000 |
| 2,4,6-Trichlorophenol | nd dl=102000 | Di-n-Octyl Phthalate | nd dl= 68000 |
| 2,4,5-Trichlorophenol | nd dl=102000 | Benzo(b)Fluoranthene | nd dl=136000 |
| 2-Chloronaphthalene | nd dl= 34000 | Benzo(k)Fluoranthene | nd dl=136000 |
| 2-Nitroaniline | nd dl=136000 | Benzo(a)Pyrene | nd dl=136000 |
| DimethylPhthalate | nd dl= 34000 | Indeno(1,2,3-cd) Pyrene | nd dl=136000 |
| Acenaphthylene | nd dl= 34000 | Dibenzo(a,h)Anthracene | nd dl=136000 |
| 3-Nitroaniline | nd dl=136000 | Benzo(g,h,i)Perylene | nd dl=136000 |

Attachment 4

# ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC46-04 DATE REPORTED: 9/30/88

SAMPLE TYPE: SOIL

ANALYST: MARVELYN HUMPHREY

## TENTATIVE COMPOUNDS BY METHODS 625

| SCAN# | CAS # | EST.CONC (ug/Kg) | COMPOUND NAME |
|---|---|---|---|
| THIS SAMPLE CONTAINS A VARIETY OF UNKNOWN | | | |
| HYDROCARBONS RANGING FROM SCAN # 357 TO SCAN # 1306. | | | |
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* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
* Estimated concentration is based on a RF of 1.0 to internal standard !

US EPA HOUSTON BRANCH

| | | | |
|---|---|---|---|
| SAMPLE #: | 8TFAKC46-04 | DATE RECEIVED: | 01-Sep-88 |
| SOURCE: | JENSEN STREET DRUM | | |
| TYPE: | SOIL | DATE REPORTED: | 12-Oct-88 |
| ANALYSTS: | CLARK,FELDMAN | | |

| PARAMETER | CONCENTRATION | DETECTION LIMIT <= | UNITS |
|---|---|---|---|
| ARSENIC | ND | 4.6 | MG/KG |
| SELENIUM | ND | 4.7 | MG/KG |
| THALLIUM | ND | 1.5 | MG/KG |
| MERCURY | 0.4 | 0.1 | MG/KG |
| SILVER | ND | 0.8 | MG/KG |
| BERYLLIUM | 1 | 0.4 | MG/KG |
| CADMIUM | 1 | 0.4 | MG/KG |
| CHROMIUM | 8 | 0.8 | MG/KG |
| COPPER | 18 | 1.5 | MG/KG |
| NICKEL | 5 | 1.5 | MG/KG |
| LEAD | 127 | 2.3 | MG/KG |
| ZINC | 333 | 0.4 | MG/KG |
| ALUMINUM | 2660 | 7.6 | MG/KG |
| BARIUM | 117 | 0.8 | MG/KG |
| COBALT | 2 | 1.5 | MG/KG |
| IRON | 4610 | 1.9 | MG/KG |
| MANGANESE | 445 | 0.4 | MG/KG |
| VANADIUM | 7 | 2.3 | MG/KG |
| ANTIMONY | ND | 4.5 | MG/KG |
| SODIUM | 1890 | 38 | MG/KG |
| POTASSIUM | 299 | 76 | MG/KG |
| CALCIUM | 179000 | 11 | MG/KG |
| MAGNESIUM | 2950 | 11 | MG/KG |

ND: NOT DETECTED

CONCENTRATIONS REPORTED ON A DRY WEIGHT BASIS

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te: 10/13/88

Appendix 5

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 8TFAKC46 Date Recvd: 09/02/88 Date Collected: 09/01/88
Sample Number: 5 Time Recvd: 08:47 Time Collected: 10:12

Source: Jensen St. Drum Site Tag Number:
Site Description: Drum # 154 Sta # 5
Sample Type: WATER
Sample Retention:

Param- Organic: ABN
Metals: HSL
Inorganic:
Biology:

Due Date: 10/06/88
Date Projected: 10/06/88
ıte Completed: / /
ımment:
Your Initials: RLR

K9- 0037

# ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC46-05 DATE REPORTED: 9/30/88

SAMPLE TYPE: WATER ANALYST: MARVELYN HUMPHREY

## HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

| COMPOUND | ug/L | COMPOUND | ug/L |
|---|---|---|---|
| Phenol | nd dl=20 | Acenaphthene | nd dl= 10 |
| bis(2-Chloroethyl) Ether | nd dl=10 | 2,4-Dinitrophenol | nd dl=150 |
| 2-Chlorophenol | nd dl=20 | 4-Nitrophenol | nd dl= 20 |
| 1,3-Dichlorobenzene | nd dl=10 | Dibenzofuran | nd dl= 10 |
| 1,4-Dichlorobenzene | nd dl=10 | 2,4-Dinitrotoluene | nd dl= 30 |
| Benzyl Alcohol | nd dl=20 | 2,6-Dinitrotoluene | nd dl= 30 |
| 1,2-Dichlorobenzene | nd dl=10 | Diethylphthalate | nd dl= 10 |
| 2-Methylphenol | nd dl=30 | 4-Chlorophenylphenyl Ether | nd dl= 40 |
| bis(2-chloroisopropyl)Ether | nd dl=10 | Fluorene | nd dl= 10 |
| 4-Methylphenol | nd dl=30 | 4-Nitroaniline | nd dl= 40 |
| N-Nitroso-Di-n-Propylamine | nd dl=30 | 4,6-Dinitro-2-Methylphenol | nd dl=100 |
| Hexachloroethane | nd dl=10 | N-Nitrosodiphenylamine | nd dl= 20 |
| Nitrobenzene | nd dl=10 | 4-Bromophenylphenyl Ether | nd dl= 40 |
| Isophorone | nd dl=20 | Hexachlorobenzene | nd dl= 10 |
| 2-Nitrophenol | nd dl=50 | Pentachlorophenol | nd dl= 75 |
| 2,4-Dimethylphenol | nd dl=30 | Phenanthrene | 25 |
| Benzoic Acid | nd dl=50 | Anthracene | nd dl= 10 |
| bis(2-Chloroethoxy)Methane | nd dl=10 | Di-n-Butylphthalate | nd dl= 10 |
| 2,4-Dichlorophenol | nd dl=30 | Fluoranthene | 23 |
| 1,2,4-trichlorobenzene | nd dl=10 | Benzidine | nd dl=100 |
| Naphthalene | 210 | Pyrene | 13 |
| 4-Chloroaniline | nd dl=20 | Butylbenzylphthalate | nd dl= 20 |
| Hexachlorobutadiene | nd dl=10 | 3,3'-Dichlorobenzidine | nd dl= 50 |
| 4-Chloro-3-Methylphenol | nd dl=40 | Benzo(a)Anthracene | nd dl= 40 |
| 2-Methylnaphthalene | 56 | bis-(2-Ethylhexyl)Phthalate | nd dl= 20 |
| Hexachlorocyclopentadiene | nd dl=50 | Chrysene | nd dl= 40 |
| 2,4,6-Trichlorophenol | nd dl=30 | Di-n-Octyl Phthalate | nd dl= 20 |
| 2,4,5-Trichlorophenol | nd dl=30 | Benzo(b)Fluoranthene | nd dl= 40 |
| 2-Chloronaphthalene | nd dl=10 | Benzo(k)Fluoranthene | nd dl= 40 |
| 2-Nitroaniline | nd dl=40 | Benzo(a)Pyrene | nd dl= 40 |
| DimethylPhthalate | nd dl=10 | Indeno(1,2,3-cd) Pyrene | nd dl= 40 |
| Acenaphthylene | nd dl=10 | Dibenzo(a,h)Anthracene | nd dl= 40 |
| 3-Nitroaniline | nd dl=40 | Benzo(g,h,i)Perylene | nd dl= 40 |

Attachment 5

# ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC46-05 DATE REPORTED: 9/30/88

SAMPLE TYPE: WATER

ANALYST: MARVELYN HUMPHREY

## TENTATIVE COMPOUNDS BY METHODS 625

| SCAN# | CAS # | EST.CONC (ug/L) | COMPOUND NAME |
|---|---|---|---|
| THIS SAMPLE CONTAINS A VARIETY OF UNKNOWN | | | |
| HYDROCARBONS RANGING FROM SCAN # 51 TO SCAN # 467. | | | |
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* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BES MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION
* Estimated concentration is based on a RF of 1.0 to internal standard !

US EPA HOUSTON BRANCH

| | | | |
|---|---|---|---|
| SAMPLE #: | 8TFAKC46-05 | DATE RECEIVED: | 01-Sep-88 |
| SOURCE: | JENSEN STREET DRUM | | |
| TYPE: | AQUEOUS | DATE REPORTED: | 12-Oct-88 |
| ANALYSTS: | CLARK,FELDMAN | | |

| PARAMETER | CONCENTRATION | DETECTION LIMIT <= | UNITS |
|---|---|---|---|
| ARSENIC | ND | 92 | UG/L |
| SELENIUM | ND | 96 | UG/L |
| THALLIUM | ND | 30 | UG/L |
| MERCURY | * | 0.2 | UG/L |
| SILVER | ND | 20 | UG/L |
| BERYLLIUM | ND | 10 | UG/L |
| CADMIUM | ND | 10 | UG/L |
| CHROMIUM | 264 | 20 | UG/L |
| COPPER | 9760 | 40 | UG/L |
| NICKEL | 50 | 40 | UG/L |
| LEAD | 57300 | 60 | UG/L |
| ZINC | 1770 | 10 | UG/L |
| ALUMINUM | 722 | 200 | UG/L |
| BARIUM | 144 | 20 | UG/L |
| COBALT | 3190 | 40 | UG/L |
| IRON | 7960 | 50 | UG/L |
| MANGANESE | 132 | 10 | UG/L |
| VANADIUM | ND | 60 | UG/L |
| ANTIMONY | ND | 120 | UG/L |
| SODIUM | 2310 | 1000 | UG/L |
| POTASSIUM | ND | 2000 | UG/L |
| CALCIUM | 1610 | 300 | UG/L |
| MAGNESIUM | 8150 | 300 | UG/L |

* : UNABLE TO ANALYZE DUE TO STRONG INTERFERENCE

ND: NOT DETECTED

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ıte: 10/13/88

Appendix 6

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 8TFAKC46 Date Recvd: 09/02/88 Date Collected: 09/01/88
Sample Number: 6 Time Recvd: 08:47 Time Collected: 10:24

Source: Jensen St. Drum Site Tag Number:
Site Description: Drum # 146 Sta # 6
Sample Type: WATER
Sample Retention:

Param- Organic: ABN
Metals: HSL
Inorganic:
Biology:

Due Date: 10/06/88
Date Projected: 10/06/88
`ate Completed: / /
omment:
Your Initials: RLR

KQ- 0041

Attachment 6

# ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC46-06 DATE REPORTED: 9/30/88

SAMPLE TYPE: WATER ANALYST: MARVELYN HUMPHREY

## HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

| COMPOUND | ug/L | COMPOUND | ug/L |
|---|---|---|---|
| Phenol | nd dl=28 | Acenaphthene | nd dl= 14 |
| bis(2-Chloroethyl) Ether | nd dl=14 | 2,4-Dinitrophenol | nd dl=210 |
| 2-Chlorophenol | nd dl=28 | 4-Nitrophenol | nd dl= 56 |
| 1,3-Dichlorobenzene | nd dl=14 | Dibenzofuran | nd dl= 14 |
| 1,4-Dichlorobenzene | nd dl=14 | 2,4-Dinitrotoluene | nd dl= 42 |
| Benzyl Alcohol | nd dl=28 | 2,6-Dinitrotoluene | nd dl= 42 |
| 1,2-Dichlorobenzene | nd dl=14 | Diethylphthalate | nd dl= 14 |
| 2-Methylphenol | nd dl=42 | 4-Chlorophenylphenyl Ether | nd dl= 56 |
| bis(2-chloroisopropyl)Ether | nd dl=14 | Fluorene | nd dl= 14 |
| 4-Methylphenol | 70 | 4-Nitroaniline | nd dl= 56 |
| N-Nitroso-Di-n-Propylamine | nd dl=42 | 4,6-Dinitro-2-Methylphenol | nd dl=140 |
| Hexachloroethane | nd dl=14 | N-Nitrosodiphenylamine | nd dl= 28 |
| Nitrobenzene | nd dl=14 | 4-Bromophenylphenyl Ether | nd dl= 56 |
| Isophorone | nd dl=28 | Hexachlorobenzene | nd dl= 14 |
| 2-Nitrophenol | nd dl=70 | Pentachlorophenol | nd dl=105 |
| 2,4-Dimethylphenol | 1370 | Phenanthrene | nd dl= 14 |
| Benzoic Acid | nd dl=70 | Anthracene | nd dl= 14 |
| bis(2-Chloroethoxy)Methane | nd dl=14 | Di-n-Butylphthalate | nd dl= 14 |
| 2,4-Dichlorophenol | nd dl=42 | Fluoranthene | nd dl= 14 |
| 1,2,4-trichlorobenzene | nd dl=14 | Benzidine | nd dl=140 |
| Naphthalene | nd dl=14 | Pyrene | nd dl= 14 |
| 4-Chloroaniline | nd dl=28 | Butylbenzylphthalate | nd dl= 28 |
| Hexachlorobutadiene | nd dl=14 | 3,3'-Dichlorobenzidine | nd dl= 70 |
| 4-Chloro-3-Methylphenol | nd dl=56 | Benzo(a)Anthracene | nd dl= 56 |
| 2-Methylnaphthalene | nd dl=14 | bis-(2-Ethylhexyl)Phthalate | nd dl= 28 |
| Hexachlorocyclopentadiene | nd dl=70 | Chrysene | nd dl= 56 |
| 2,4,6-Trichlorophenol | nd dl=42 | Di-n-Octyl Phthalate | nd dl= 28 |
| 2,4,5-Trichlorophenol | nd dl=42 | Benzo(b)Fluoranthene | nd dl= 56 |
| 2-Chloronaphthalene | nd dl=14 | Benzo(k)Fluoranthene | nd dl= 56 |
| 2-Nitroaniline | nd dl=56 | Benzo(a)Pyrene | nd dl= 56 |
| DimethylPhthalate | nd dl=14 | Indeno(1,2,3-cd) Pyrene | nd dl= 56 |
| Acenaphthylene | nd dl=14 | Dibenzo(a,h)Anthracene | nd dl= 56 |
| 3-Nitroaniline | nd dl=56 | Benzo(g,h,i)Perylene | nd dl= 56 |

Attachment 6

# ORGANIC ANALYSIS DATA

SES-HL SAMPLE NO.: 8TFAKC46-06 DATE REPORTED: 9/30/88

SAMPLE TYPE: WATER

ANALYST: MARVELYN HUMPHREY

## TENTATIVE COMPOUNDS BY METHODS 625

| SCAN# | CAS # | EST.CONC (ug/l) | COMPOUND NAME |
|---|---|---|---|
| 310 | 98862 | 23 | 1-PHENYL-ETHANONE |
| 364 | 95874 | 43 | 2,5-DIMETHYL-PHENOL |
| 398 | | 126 | UNKNOWN |
| 307 | 90006 | 87 | 2-ETHYL-PHENOL |
| 549 | | 37 | UNKNOWN |
| 1058 | | 50 | UNKNOWN |
| 1382 | | 27 | UNKNOWN |
| 504 | | 27 | UNKNOWN |

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
* Estimated concentration is based on a RF of 1.0 to internal standard !

US EPA HOUSTON BRANCH

| | | | |
|---|---|---|---|
| SAMPLE #: | 8TFAKC46-06 | DATE RECEIVED: | 01-Sep-88 |
| SOURCE: | JENSEN STREET DRUM | | |
| TYPE: | AQUEOUS | DATE REPORTED: | 12-Oct-88 |
| ANALYSTS: | CLARK,FELDMAN | | |

| PARAMETER | CONCENTRATION | DETECTION LIMIT <= | UNITS |
|---|---|---|---|
| ARSENIC | ND | 92 | UG/L |
| SELENIUM | ND | 96 | UG/L |
| THALLIUM | ND | 30 | UG/L |
| MERCURY | ND | 0.2 | UG/L |
| SILVER | ND | 20 | UG/L |
| BERYLLIUM | ND | 10 | UG/L |
| CADMIUM | ND | 10 | UG/L |
| CHROMIUM | ND | 20 | UG/L |
| COPPER | 50 | 40 | UG/L |
| NICKEL | ND | 40 | UG/L |
| LEAD | ND | 60 | UG/L |
| ZINC | 302 | 10 | UG/L |
| ALUMINUM | ND | 200 | UG/L |
| BARIUM | 74 | 20 | UG/L |
| COBALT | ND | 40 | UG/L |
| IRON | 9460 | 50 | UG/L |
| MANGANESE | 95 | 10 | UG/L |
| VANADIUM | ND | 60 | UG/L |
| ANTIMONY | ND | 120 | UG/L |
| SODIUM | 26800 | 1000 | UG/L |
| POTASSIUM | 5130 | 2000 | UG/L |
| CALCIUM | 14300 | 300 | UG/L |
| MAGNESIUM | 1150 | 300 | UG/L |

ND: NOT DETECTED

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ıte: 10/13/88

Appendix 7

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 8TFAKC46 Date Recvd: 09/02/88 Date Collected: 09/01/88
Sample Number: 7 Time Recvd: 08:47 Time Collected: 10:35

Source: Jensen St. Drum Site Tag Number:
Site Description: Drum # 143 Sta # 7
Sample Type: OIL
Sample Retention:

Param- Organic: ABN
Metals: HSL
Inorganic:
Biology:

Due Date: 10/06/88
Date Projected: 10/06/88
ate Completed: / /
omment:
Your Initials: RLR

KG-0045

Attachment 7

# ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.:8TFAKC46-07 DATE REPORTED: 9/30/88

SAMPLE TYPE: OIL ANALYST: MARVELYN HUMPHREY

## HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

| COMPOUND | ug/Kg | COMPOUND | ug/Kg |
|---|---|---|---|
| Phenol | nd dl=20000 | Acenaphthene | nd dl= 1000 |
| bis(2-Chloroethyl) Ether | nd dl=10000 | 2,4-Dinitrophenol | nd dl=15000 |
| 2-Chlorophenol | nd dl=20000 | 4-Nitrophenol | nd dl= 4000 |
| 1,3-Dichlorobenzene | nd dl=10000 | Dibenzofuran | nd dl= 1000 |
| 1,4-Dichlorobenzene | nd dl=10000 | 2,4-Dinitrotoluene | nd dl= 3000 |
| Benzyl Alcohol | nd dl=20000 | 2,6-Dinitrotoluene | nd dl= 3000 |
| 1,2-Dichlorobenzene | nd dl=10000 | Diethylphthalate | nd dl= 1000 |
| 2-Methylphenol | nd dl=30000 | 4-Chlorophenylphenyl Ether | nd dl= 4000 |
| bis(2-chloroisopropyl)Ether | nd dl=10000 | Fluorene | nd dl= 10000 |
| 4-Methylphenol | nd dl=30000 | 4-Nitroaniline | nd dl= 40000 |
| N-Nitroso-Di-n-Propylamine | nd dl=30000 | 4,6-Dinitro-2-Methylphenol | nd dl=100000 |
| Hexachloroethane | nd dl=10000 | N-Nitrosodiphenylamine | nd dl= 20000 |
| Nitrobenzene | nd dl=10000 | 4-Bromophenylphenyl Ether | nd dl= 40000 |
| Isophorone | nd dl=20000 | Hexachlorobenzene | nd dl= 10000 |
| 2-Nitrophenol | nd dl=50000 | Pentachlorophenol | nd dl= 75000 |
| 2,4-Dimethylphenol | nd dl=30000 | Phenanthrene | nd dl= 10000 |
| Benzoic Acid | nd dl=50000 | Anthracene | nd dl= 10000 |
| bis(2-Chloroethoxy)Methane | nd dl=10000 | Di-n-Butylphthalate | nd dl= 10000 |
| 2,4-Dichlorophenol | nd dl=30000 | Fluoranthene | nd dl= 10000 |
| 1,2,4-trichlorobenzene | nd dl=10000 | Benzidine | nd dl=100000 |
| Naphthalene | nd dl=10000 | Pyrene | nd dl= 10000 |
| 4-Chloroaniline | nd dl=20000 | Butylbenzylphthalate | nd dl= 20000 |
| Hexachlorobutadiene | nd dl=10000 | 3,3'-Dichlorobenzidine | nd dl= 50000 |
| 4-Chloro-3-Methylphenol | nd dl=40000 | Benzo(a)Anthracene | nd dl= 40000 |
| 2-Methylnaphthalene | nd dl=10000 | bis-(2-Ethylhexyl)Phthalate | nd dl= 20000 |
| Hexachlorocyclopentadiene | nd dl=50000 | Chrysene | nd dl= 40000 |
| 2,4,6-Trichlorophenol | nd dl=30000 | Di-n-Octyl Phthalate | nd dl= 20000 |
| 2,4,5-Trichlorophenol | nd dl=30000 | Benzo(b)Fluoranthene | nd dl= 40000 |
| 2-Chloronaphthalene | nd dl=10000 | Benzo(k)Fluoranthene | nd dl= 40000 |
| 2-Nitroaniline | nd dl=40000 | Benzo(a)Pyrene | nd dl= 40000 |
| DimethylPhthalate | nd dl=10000 | Indeno(1,2,3-cd) Pyrene | nd dl= 40000 |
| Acenaphthylene | nd dl=10000 | Dibenzo(a,h)Anthracene | nd dl= 40000 |
| 3-Nitroaniline | nd dl=40000 | Benzo(g,h,i)Perylene | nd dl= 40000 |

Attachment 7

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC46-07 DATE REPORTED: 9/30/88

SAMPLE TYPE: OIL

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHODS 625

| SCAN# | CAS # | EST.CONC (ug/KG) | COMPOUND NAME |
|---|---|---|---|
| 249 | | 23,100 | UNKNOWN |
| 494 | | 143,000 | UNKNOWN |
| 562 | | 69,300 | UNKNOWN |
| 690 | | 60,500 | UNKNOWN |
| 769 | | 143,000 | UNKNOWN |
| 825 | | 22,000 | UNKNOWN |
| 830 | | 29,700 | UNKNOWN |
| 945 | | 286,000 | UNKNOWN |
| 962 | 90722 | 924,000 | 2,4,6-TRIS[(DIMETHYLAMINO)METHYL] PHENOL |
| 971 | | 154,000 | UNKNOWN |
| 988 | | 28,600 | UNKNOWN |
| 1092 | | 39,600 | UNKNOWN |
| | | | |
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* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
* Estimated concentration is based on a RF of 1.0 to internal standard !

US EPA HOUSTON BRANCH

| | | | |
|---|---|---|---|
| SAMPLE #: | 8TFAKC46-07 | DATE RECEIVED: | 01-Sep-88 |
| SOURCE: | JENSEN STREET DRUM | | |
| TYPE: | OIL | DATE REPORTED: | 12-Oct-88 |
| ANALYSTS: | CLARK,FELDMAN | | |

| PARAMETER | CONCENTRATION | DETECTION LIMIT <= | UNITS |
|---|---|---|---|
| ARSENIC | ND | 4.5 | MG/KG |
| SELENIUM | ND | 4.7 | MG/KG |
| THALLIUM | ND | 1.5 | MG/KG |
| MERCURY | ND | 0.1 | MG/KG |
| SILVER | ND | 1.0 | MG/KG |
| BERYLLIUM | ND | 0.5 | MG/KG |
| CADMIUM | ND | 0.5 | MG/KG |
| CHROMIUM | ND | 1.0 | MG/KG |
| COPPER | ND | 2.0 | MG/KG |
| NICKEL | ND | 2.0 | MG/KG |
| LEAD | ND | 3.0 | MG/KG |
| ZINC | 6* | 0.5 | MG/KG |
| ALUMINUM | ND | 9.9 | MG/KG |
| BARIUM | ND | 1.0 | MG/KG |
| COBALT | ND | 2.0 | MG/KG |
| IRON | 48* | 2.5 | MG/KG |
| MANGANESE | ND | 0.5 | MG/KG |
| VANADIUM | ND | 3.0 | MG/KG |
| ANTIMONY | ND | 5.9 | MG/KG |
| SODIUM | ND | 49 | MG/KG |
| POTASSIUM | ND | 99 | MG/KG |
| CALCIUM | ND | 15 | MG/KG |
| MAGNESIUM | ND | 15 | MG/KG |

ND: NOT DETECTED

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te: 10/13/88

Appendix 8

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 8TFAKC46 Date Recvd: 09/02/88 Date Collected: 09/01/88
Sample Number: 8 Time Recvd: 08:47 Time Collected: 11:28

Source: Jensen St. Drum Site Tag Number:
Site Description: Drum # 104 Sta # 8
Sample Type: WATER
Sample Retention:

Param- Organic: ABN
Metals: HSL
Inorganic:
Biology:

Due Date: 10/06/88
Date Projected: 10/06/88
ate Completed: / /
omment:
Your Initials: RLR

KA- 0049

Attachment 8

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC46-08 DATE REPORTED: 9/30/88

SAMPLE TYPE: WATER ANALYST: MARVELYN HUMPHREY

HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

| COMPOUND | ug/L | COMPOUND | ug/L |
|---|---|---|---|
| Phenol | nd dl= 600 | Acenaphthene | nd dl= 30 |
| bis(2-Chloroethyl) Ether | nd dl= 300 | 2,4-Dinitrophenol | nd dl=450 |
| 2-Chlorophenol | nd dl= 600 | 4-Nitrophenol | nd dl=120 |
| 1,3-Dichlorobenzene | nd dl= 300 | Dibenzofuran | nd dl= 30 |
| 1,4-Dichlorobenzene | nd dl= 300 | 2,4-Dinitrotoluene | nd dl= 90 |
| Benzyl Alcohol | nd dl= 600 | 2,6-Dinitrotoluene | nd dl= 90 |
| 1,2-Dichlorobenzene | nd dl= 300 | Diethylphthalate | nd dl= 30 |
| 2-Methylphenol | nd dl= 900 | 4-Chlorophenylphenyl Ether | nd dl=1200 |
| bis(2-chloroisopropyl)Ether | nd dl= 300 | Fluorene | nd dl= 300 |
| 4-Methylphenol | nd dl= 900 | 4-Nitroaniline | nd dl=1200 |
| N-Nitroso-Di-n-Propylamine | nd dl= 900 | 4,6-Dinitro-2-Methylphenol | nd dl=3000 |
| Hexachloroethane | nd dl= 300 | N-Nitrosodiphenylamine | nd dl= 600 |
| Nitrobenzene | nd dl= 300 | 4-Bromophenylphenyl Ether | nd dl=1200 |
| Isophorone | nd dl= 600 | Hexachlorobenzene | nd dl= 300 |
| 2-Nitrophenol | nd dl=1500 | Pentachlorophenol | nd dl=2250 |
| 2,4-Dimethylphenol | nd dl= 900 | Phenanthrene | nd dl= 300 |
| Benzoic Acid | nd dl=1500 | Anthracene | nd dl= 300 |
| bis(2-Chloroethoxy)Methane | nd dl= 300 | Di-n-Butylphthalate | nd dl= 300 |
| 2,4-Dichlorophenol | nd dl= 900 | Fluoranthene | nd dl= 300 |
| 1,2,4-trichlorobenzene | nd dl= 300 | Benzidine | nd dl=3000 |
| Naphthalene | nd dl= 300 | Pyrene | nd dl= 300 |
| 4-Chloroaniline | nd dl= 600 | Butylbenzylphthalate | nd dl= 600 |
| Hexachlorobutadiene | nd dl= 300 | 3,3'-Dichlorobenzidine | nd dl=1500 |
| 4-Chloro-3-Methylphenol | nd dl=1200 | Benzo(a)Anthracene | nd dl=1200 |
| 2-Methylnaphthalene | nd dl= 300 | bis-(2-Ethylhexyl)Phthalate | nd dl= 600 |
| Hexachlorocyclopentadiene | nd dl=1500 | Chrysene | nd dl=1200 |
| 2,4,6-Trichlorophenol | nd dl= 900 | Di-n-Octyl Phthalate | nd dl= 600 |
| 2,4,5-Trichlorophenol | nd dl= 900 | Benzo(b)Fluoranthene | nd dl=1200 |
| 2-Chloronaphthalene | nd dl= 300 | Benzo(k)Fluoranthene | nd dl=1200 |
| 2-Nitroaniline | nd dl=1200 | Benzo(a)Pyrene | nd dl=1200 |
| DimethylPhthalate | nd dl= 300 | Indeno(1,2,3-cd) Pyrene | nd dl=1200 |
| Acenaphthylene | nd dl= 300 | Dibenzo(a,h)Anthracene | nd dl=1200 |
| 3-Nitroaniline | nd dl=1200 | Benzo(g,h,i)Perylene | nd dl=1200 |

Attachment 8

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC46-08 DATE REPORTED: 9/30/88

SAMPLE TYPE: WATER

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHODS 625

| SCAN# | CAS # | EST.CONC (ug/l) | COMPOUND NAME |
|---|---|---|---|
| 10 | 141797 | 36000 | 4-METHYL-3-PENTEN-2-ONE |
| 22 | | 32000 | UNKNOWN |
| 47 | | 86000 | UNKNOWN |
| 152 | | 2300 | UNKNOWN |
| 158 | 107415 | 1100 | 2-METHYL-2,4-PENTANEDIOL |
| 252 | 50598500 | 1700 | 3,5,5-TRIMETHYL-2(5H)-FURANONE |
| 267 | | 1300 | UNKNOWN |
| 274 | | 1100 | UNKNOWN |
| 323 | | 1200 | UNKNOWN |
| 348 | | 2100 | UNKNOWN |
| 367 | | 700 | UNKNOWN |
| 404 | | 26000 | UNKNOWN |
| 445 | | 6000 | UNKNOWN |
| 452 | | 1500 | UNKNOWN |
| 467 | | 3000 | UNKNOWN |
| 504 | | 1200 | UNKNOWN |
| 543 | | 1500 | UNKNOWN |
| 596 | | 880 | UNKNOWN |
| 833 | | 940 | UNKNOWN |
| 1374 | 122623 | 3300 | BIS(2-ETHYLHEXYL)DECANEDIOIC ACID |

* ANALYSTS NOTE ! -- THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

US EPA HOUSTON BRANCH

| | | | |
|---|---|---|---|
| SAMPLE #: | 8TFAKC46-08 | DATE RECEIVED: | 01-Sep-88 |
| SOURCE: | JENSEN STREET DRUM | | |
| TYPE: | AQUEOUS | DATE REPORTED: | 12-Oct-88 |
| ANALYSTS: | CLARK,FELDMAN | | |

| PARAMETER | CONCENTRATION | DETECTION LIMIT <= | UNITS |
|---|---|---|---|
| ARSENIC | ND | 92 | UG/L |
| SELENIUM | ND | 96 | UG/L |
| THALLIUM | ND | 30 | UG/L |
| MERCURY | * | 0.2 | UG/L |
| SILVER | ND | 20 | UG/L |
| BERYLLIUM | 50 | 10 | UG/L |
| CADMIUM | ND | 10 | UG/L |
| CHROMIUM | ND | 20 | UG/L |
| COPPER | ND | 40 | UG/L |
| NICKEL | ND | 40 | UG/L |
| LEAD | 133 | 60 | UG/L |
| ZINC | 72 | 10 | UG/L |
| ALUMINUM | 203 | 200 | UG/L |
| BARIUM | ND | 20 | UG/L |
| COBALT | ND | 40 | UG/L |
| IRON | 440000 | 50 | UG/L |
| MANGANESE | 5820 | 10 | UG/L |
| VANADIUM | ND | 60 | UG/L |
| ANTIMONY | ND | 120 | UG/L |
| SODIUM | 5560 | 1000 | UG/L |
| POTASSIUM | ND | 2000 | UG/L |
| CALCIUM | 1800 | 300 | UG/L |
| MAGNESIUM | ND | 300 | UG/L |

* : UNABLE TO ANALYZE DUE TO STRONG INTERFERENCE

ND: NOT DETECTED

te: 10/13/88

Appendix 9

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 8TFAKC46 Date Recvd: 09/02/88 Date Collected: 09/01/88
Sample Number: 9 Time Recvd: 08:47 Time Collected: 11:35

Source: Jensen St. Drum Site Tag Number:
Site Description: Drum # 104 Sta # 8 (dup)
Sample Type: WATER
Sample Retention:

Param- Organic: ABN
Metals: HSL
Inorganic:
Biology:

Due Date: 10/06/88
Date Projected: 10/06/88
ate Completed: / /
mment:
our Initials: RLR

Attachment 9

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC46-09 DATE REPORTED: 9/30/88

SAMPLE TYPE: WATER ANALYST: MARVELYN HUMPHREY

HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

| COMPOUND | ug/L | COMPOUND | ug/L |
|---|---|---|---|
| Phenol | nd dl= 600 | Acenaphthene | nd dl= 30 |
| bis(2-Chloroethyl) Ether | nd dl= 300 | 2,4-Dinitrophenol | nd dl=450 |
| 2-Chlorophenol | nd dl= 600 | 4-Nitrophenol | nd dl=120 |
| 1,3-Dichlorobenzene | nd dl= 300 | Dibenzofuran | nd dl= 30 |
| 1,4-Dichlorobenzene | nd dl= 300 | 2,4-Dinitrotoluene | nd dl= 90 |
| Benzyl Alcohol | nd dl= 600 | 2,6-Dinitrotoluene | nd dl= 90 |
| 1,2-Dichlorobenzene | nd dl= 300 | Diethylphthalate | nd dl= 30 |
| 2-Methylphenol | nd dl= 900 | 4-Chlorophenylphenyl Ether | nd dl=120 |
| bis(2-chloroisopropyl)Ether | nd dl= 300 | Fluorene | nd dl= 30 |
| 4-Methylphenol | nd dl= 900 | 4-Nitroaniline | nd dl=1200 |
| N-Nitroso-Di-n-Propylamine | nd dl= 900 | 4,6-Dinitro-2-Methylphenol | nd dl=3000 |
| Hexachloroethane | nd dl= 300 | N-Nitrosodiphenylamine | nd dl= 600 |
| Nitrobenzene | nd dl= 300 | 4-Bromophenylphenyl Ether | nd dl=1200 |
| Isophorone | 1290 | Hexachlorobenzene | nd dl= 300 |
| 2-Nitrophenol | nd dl=1500 | Pentachlorophenol | nd dl=2250 |
| 2,4-Dimethylphenol | nd dl= 900 | Phenanthrene | nd dl= 300 |
| Benzoic Acid | nd dl=1500 | Anthracene | nd dl= 300 |
| bis(2-Chloroethoxy)Methane | nd dl= 300 | Di-n-Butylphthalate | nd dl= 300 |
| 2,4-Dichlorophenol | nd dl= 900 | Fluoranthene | nd dl= 300 |
| 1,2,4-trichlorobenzene | nd dl= 300 | Benzidine | nd dl=3000 |
| Naphthalene | nd dl= 300 | Pyrene | nd dl= 300 |
| 4-Chloroaniline | nd dl= 600 | Butylbenzylphthalate | nd dl= 600 |
| Hexachlorobutadiene | nd dl= 300 | 3,3'-Dichlorobenzidine | nd dl=1500 |
| 4-Chloro-3-Methylphenol | nd dl=1200 | Benzo(a)Anthracene | nd dl=1200 |
| 2-Methylnaphthalene | nd dl= 300 | bis-(2-Ethylhexyl)Phthalate | nd dl= 600 |
| Hexachlorocyclopentadiene | nd dl=1500 | Chrysene | nd dl=1200 |
| 2,4,6-Trichlorophenol | nd dl= 900 | Di-n-Octyl Phthalate | nd dl= 600 |
| 2,4,5-Trichlorophenol | nd dl= 900 | Benzo(b)Fluoranthene | nd dl=1200 |
| 2-Chloronaphthalene | nd dl= 300 | Benzo(k)Fluoranthene | nd dl=1200 |
| 2-Nitroaniline | nd dl=1200 | Benzo(a)Pyrene | nd dl=1200 |
| DimethylPhthalate | nd dl= 300 | Indeno(1,2,3-cd) Pyrene | nd dl=1200 |
| Acenaphthylene | nd dl= 300 | Dibenzo(a,h)Anthracene | nd dl=1200 |
| 3-Nitroaniline | nd dl=1200 | Benzo(g,h,i)Perylene | nd dl=1200 |

Attachment 9

ORGANIC ANALYSIS DATA

ES-HL SAMPLE NO.: BTFAKC46-09 DATE REPORTED: 9/30/88

SAMPLE TYPE: WATER

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHODS 625

| SCAN# | CAS # | EST. CONC (ug/l) | COMPOUND NAME |
|---|---|---|---|
| 12 | | 73000 | UNKNOWN |
| 37 | | 94000 | UNKNOWN |
| 145 | | 3100 | UNKNOWN |
| 251 | 50598500 | 1500 | 3,5,5-TRIMETHYL-2(5H)-FURANONE |
| 268 | | 1300 | UNKNOWN |
| 276 | | 1100 | UNKNOWN |
| 324 | | 1200 | UNKNOWN |
| 352 | | 540 | UNKNOWN |
| 367 | | 1300 | UNKNOWN |
| 408 | | 6000 | UNKNOWN |
| 450 | | 1100 | UNKNOWN |
| 471 | | 670 | UNKNOWN |
| 509 | | 250 | UNKNOWN |
| 548 | | 360 | UNKNOWN |
| 1378 | 122623 | 610 | BIS(2-ETHYLHEXYL)ESTER DECANEDIOIC ACID |
| | | | |
| | | | |
| | | | |

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
* Estimated concentration is based on a RF of 1.0 to internal standard !

US EPA HOUSTON BRANCH

| | | | |
|---|---|---|---|
| SAMPLE #: | 8TFAKC46-09 | DATE RECEIVED: | 01-Sep-88 |
| SOURCE: | JENSEN STREET DRUM | | |
| TYPE: | AQUEOUS | DATE REPORTED: | 12-Oct-88 |
| ANALYSTS: | CLARK,FELDMAN | | |

| PARAMETER | CONCENTRATION | DETECTION LIMIT <= | UNITS |
|---|---|---|---|
| ARSENIC | ND | 92 | UG/L |
| SELENIUM | ND | 96 | UG/L |
| THALLIUM | ND | 30 | UG/L |
| MERCURY | * | 0.2 | UG/L |
| SILVER | ND | 20 | UG/L |
| BERYLLIUM | 67 | 10 | UG/L |
| CADMIUM | ND | 10 | UG/L |
| CHROMIUM | ND | 20 | UG/L |
| COPPER | ND | 40 | UG/L |
| NICKEL | ND | 40 | UG/L |
| LEAD | 129 | 60 | UG/L |
| ZINC | 144 | 10 | UG/L |
| ALUMINUM | 279 | 200 | UG/L |
| BARIUM | ND | 20 | UG/L |
| COBALT | ND | 40 | UG/L |
| IRON | 494000 | 50 | UG/L |
| MANGANESE | 6000 | 10 | UG/L |
| VANADIUM | ND | 60 | UG/L |
| ANTIMONY | ND | 120 | UG/L |
| SODIUM | 6060 | 1000 | UG/L |
| POTASSIUM | ND | 2000 | UG/L |
| CALCIUM | 3320 | 300 | UG/L |
| MAGNESIUM | ND | 300 | UG/L |

* : UNABLE TO ANALYZE DUE TO STRONG INTERFERENCE

ND: NOT DETECTED

,$

te: 10/13/88

Appendix 10

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 8TFAKC46 Date Recvd: 09/02/88 Date Collected: 09/01/88
Sample Number: 10 Time Recvd: 08:47 Time Collected: 11:47

Source: Jensen St. Drum Site Tag Number:
Site Description: Polypropylene vat Sta # 9
Sample Type: WATER
Sample Retention:

Param- Organic: ABN
Metals: HSL
Inorganic:
Biology:

Due Date: 10/06/88
Date Projected: 10/06/88
Date Completed: / /
mment:
.our Initials: RLR

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC46-10 DATE REPORTED: 9/30/88

SAMPLE TYPE: WATER ANALYST:MARVELYN HUMPHREY

HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

| COMPOUND | ug/L | COMPOUND | ug/L |
|---|---|---|---|
| Phenol | nd dl=20 | Acenaphthene | nd dl= 10 |
| bis(2-Chloroethyl) Ether | nd dl=10 | 2,4-Dinitrophenol | nd dl=150 |
| 2-Chlorophenol | nd dl=20 | 4-Nitrophenol | nd dl= 20 |
| 1,3-Dichlorobenzene | nd dl=10 | Dibenzofuran | nd dl= 10 |
| 1,4-Dichlorobenzene | nd dl=10 | 2,4-Dinitrotoluene | nd dl= 30 |
| Benzyl Alcohol | nd dl=20 | 2,6-Dinitrotoluene | nd dl= 30 |
| 1,2-Dichlorobenzene | nd dl=10 | Diethylphthalate | nd dl= 10 |
| 2-Methylphenol | nd dl=30 | 4-Chlorophenylphenyl Ether | nd dl= 40 |
| bis(2-chloroisopropyl)Ether | nd dl=10 | Fluorene | nd dl= 10 |
| 4-Methylphenol | nd dl=30 | 4-Nitroaniline | nd dl= 40 |
| N-Nitroso-Di-n-Propylamine | nd dl=30 | 4,6-Dinitro-2-Methylphenol | nd dl=100 |
| Hexachloroethane | nd dl=10 | N-Nitrosodiphenylamine | nd dl= 20 |
| Nitrobenzene | nd dl=10 | 4-Bromophenylphenyl Ether | nd dl= 40 |
| ophorone | nd dl=20 | Hexachlorobenzene | nd dl= 10 |
| -Nitrophenol | nd dl=50 | Pentachlorophenol | nd dl= 75 |
| 2,4-Dimethylphenol | nd dl=30 | Phenanthrene | nd dl= 10 |
| Benzoic Acid | nd dl=50 | Anthracene | nd dl= 10 |
| bis(2-Chloroethoxy)Methane | nd dl=10 | Di-n-Butylphthalate | nd dl= 10 |
| 2,4-Dichlorophenol | nd dl=30 | Fluoranthene | nd dl= 10 |
| 1,2,4-trichlorobenzene | nd dl=10 | Benzidine | nd dl=100 |
| Naphthalene | nd dl=10 | Pyrene | nd dl= 10 |
| 4-Chloroaniline | nd dl=20 | Butylbenzylphthalate | nd dl= 20 |
| Hexachlorobutadiene | nd dl=10 | 3,3'-Dichlorobenzidine | nd dl= 50 |
| 4-Chloro-3-Methylphenol | nd dl=40 | Benzo(a)Anthracene | nd dl= 40 |
| 2-Methylnaphthalene | nd dl=10 | bis-(2-Ethylhexyl)Phthalate | nd dl= 20 |
| Hexachlorocyclopentadiene | nd dl=50 | Chrysene | nd dl= 40 |
| 2,4,6-Trichlorophenol | nd dl=30 | Di-n-Octyl Phthalate | nd dl= 20 |
| 2,4,5-Trichlorophenol | nd dl=30 | Benzo(b)Fluoranthene | nd dl= 40 |
| 2-Chloronaphthalene | nd dl=10 | Benzo(k)Fluoranthene | nd dl= 40 |
| 2-Nitroaniline | nd dl=40 | Benzo(a)Pyrene | nd dl= 40 |
| DimethylPhthalate | nd dl=10 | Indeno(1,2,3-cd) Pyrene | nd dl= 40 |
| Acenaphthylene | nd dl=10 | Dibenzo(a,h)Anthracene | nd dl= 40 |
| 3-Nitroaniline | nd dl=40 | Benzo(g,h,i)Perylene | nd dl= 40 |

Attachment 10

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC46-10 DATE REPORTED: 9/30/88

SAMPLE TYPE: WATER

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHODS 625

| SCAN# | CAS # | EST. CONC (ug/l) | COMPOUND NAME |
|---|---|---|---|
| 107 | 111762 | 200 | 2-BUTOXY-ETHANOL |

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
* Estimated concentration is based on a RF of 1.0 to internal standard !

US EPA HOUSTON BRANCH

| | | | |
|---|---|---|---|
| SAMPLE #: | 8TFAKC46-10 | DATE RECEIVED: | 01-Sep-88 |
| SOURCE: | JENSEN STREET DRUM | | |
| TYPE: | AQUEOUS | DATE REPORTED: | 12-Oct-88 |
| ANALYSTS: | CLARK,FELDMAN | | |

| PARAMETER | CONCENTRATION | DETECTION LIMIT <= | UNITS |
|---|---|---|---|
| ARSENIC | ND | 92 | UG/L |
| SELENIUM | ND | 96 | UG/L |
| THALLIUM | ND | 30 | UG/L |
| MERCURY | * | 0.2 | UG/L |
| SILVER | ND | 20 | UG/L |
| BERYLLIUM | ND | 10 | UG/L |
| CADMIUM | ND | 10 | UG/L |
| CHROMIUM | 39 | 20 | UG/L |
| COPPER | 162 | 40 | UG/L |
| NICKEL | ND | 40 | UG/L |
| LEAD | ND | 60 | UG/L |
| ZINC | 177 | 10 | UG/L |
| ALUMINUM | 2480 | 200 | UG/L |
| BARIUM | 153 | 20 | UG/L |
| COBALT | ND | 40 | UG/L |
| IRON | 1050 | 50 | UG/L |
| MANGANESE | 48 | 10 | UG/L |
| VANADIUM | ND | 60 | UG/L |
| ANTIMONY | ND | 120 | UG/L |
| SODIUM | 3140000 | 1000 | UG/L |
| POTASSIUM | 16400000 | 2000 | UG/L |
| CALCIUM | 24000 | 300 | UG/L |
| MAGNESIUM | 1940 | 300 | UG/L |

* : UNABLE TO ANALYZE DUE TO STRONG INTERFERENCE

ND: NOT DETECTED

# CHAIN OF CUSTODY RECORD

Dallas, Texas 75270

PROJ. NO. TFA-K

PROJECT NAME: JS NSS WAST. DRUM SIZ

SAMPLERS: (Signature) [illegible]

ATTN: PAT HAMMACK 6E-II

| STA. NO. | DATE | TIME | COMP. | GRAB | STATION LOCATION | NO. OF CONTAINERS | DNA | METALS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 8/31/88 | 1040-1043 | | X | Drum #82, unlabelled | 2 | ✓ | ✓ | | | | | 6-052278/6052279 |
| 2 | 8/31/88 | 1232-1237 | | X | Drum #32 A | 2 | ✓ | ✓ | | | | | 6-042321, 6-042322 |
| 3 | 8/31/88 | 1245-1252 | | X | NE ground material Concrete Pad | 2 | ✓ | ✓ | | | | | 6-042323, 6-042324 |
| 4 | 8/31/88 | 1245-1252 | | X | SE soil, caustic drum | 2 | ✓ | ✓ | | | | | |

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| [illegible] | 9-1-88 / 0817 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |

| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks |
|---|---|---|---|---|
| | | Jerry Carter | 9/1/88 / 0817 | |

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

K9-0061

Office of Enforcement

# CHAIN OF CUSTODY RECORD

Dallas, TX 75270

PROJ. NO.: TFA-K

PROJECT NAME: Jersey St. Drums

SAMPLERS: (Signature) Michael C. Tarnow

ATTN: PAT HARMACK 6E-EI

| STA. NO. | DATE | TIME | COMP. | GRAB | STATION LOCATION | NO. OF CONTAINERS | DNA | METALS | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 9/1/88 | 1005-1012 | | ✓ | Drum # 154 | 2 | ✓ | ✓ | | | | | 6-042327, 6-042328 |
| 6 | 9/1/88 | 1015-1024 | | ✓ | Drum # 146 | 2 | ✓ | ✓ | | | | | 6-042329, 6-042330 |
| | 9/1/88 | 1027-1035 | | ✓ | Drum # 143 | 2 | ✓ | ✓ | | | | | 6-042331, 6-042332 |
| 8 | 9/1/88 | 1124-1128 | | ✓ | Drum # 104 | 2 | ✓ | ✓ | | | | | 6-042334, 6-042333 |
| 8 DUP | 9/1/88 | 1128-1135 | | ✓ | Drum # 104 | 2 | ✓ | ✓ | | | | | 6-042335, 6-042336 |
| 9 | 9/1/88 | 1140-1143 | | ✓ | Polypropylene VAT | 2 | ✓ | ✓ | | | | | 6-042337, 6-042338 |

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Michael C. Tarnow | 9/2/88 0847 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks | |
| | | | | | |

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

K9-0062

ecology and environment, inc.
6440 HILLCROFT AVENUE, HOUSTON, TEXAS 77081, TEL. 713/771-9460
International Specialists in the Environment

**CERCLIS#: TXD987966900**

# SITE ASSESSMENT REPORT

**FOR**

**JENSEN DRIVE DRUM SITE**
**Houston, Harris County, Texas**

**Prepared for**

**EPA - Region VI**
**Emergency Response Branch**

J. Chris Petersen
Deputy Project Officer

By

Ecology and Environment, Inc.
Technical Assistance Team

November 10, 1988

K9-0063

recycled paper

ecology and environment, inc.
6440 HILLCROFT AVENUE, HOUSTON, TEXAS 77081, TEL. 713/771-9460
International Specialists in the Environment

CERCLIS #: TXD987966900

DATE: November 10, 1988

TO: Pat Hammack, OSC
EPA Region VI, Emergency Response Branch

THRU: J. Chris Petersen, DPO
EPA Region VI, Emergency Response Branch

THRU: Kishor Fruitwala, TATL
Region VI, Technical Assistance Team

FROM: Patricia Herrera
Region VI, Technical Assistance Team

SUBJECT: Site Assessment of Jensen Drive Drum Site
Houston, Harris County, Texas

TDD #: T06-8810-28
PAN #: TTX 0829 SAB

**Introduction**

The EPA On-Scene Coordinator (OSC) and the Technical Assistance Team (TAT) performed a site assessment at the Jensen Drive drum site located in Houston, Harris County, Texas. This assessment was conducted to determine whether conditions at the site present a potential threat to public health and welfare and/or to the environment. If so, the site would be eligible for immediate removal status in accordance with the National Contingency Plan guidelines.

Current Harris County deed records indicate the property is owned by LEAS-IT, Inc. of Harris County, Texas. During a site assessment at the nearby Davis Street site, Mr. Winston informed EPA that a Mr. J. D. Gray owned the property. Mr. Gray is a representative for LEAS-IT, Inc.

**I. Purpose**

This memorandum requests approval for a Removal Action pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA) at the Jensen Street Drum site.

This action meets the criteria for initiating a removal action under Section 300.65 of the National Contingency Plan (NCP) and is anticipated to require less than twelve months and under $2 million for completion.



recycled paper

**II. Background**

A. National Significance:

This site is not of national significance.

B. Site Description:

The Jensen Drive drum site is located at 3116 Jensen Drive, two blocks south of Collingsworth in northeast Houston. It is in a light industry and residential area. Inhabited houses are as close to the site as 30 feet. Three churches are located near the site, and a school is less than one-half mile away.

The site itself occupies a rectangular lot measuring approximately 400 feet by 150 feet. There is a warehouse in the center of the site with two open bay doors facing east and west. The site is surrounded by a five foot chain link fence. The side facing Jensen Drive is secured only by a gate three feet high and ten feet wide. The gate is chained and pad locked. A key is kept across the street at Winkman and Doggett Auto Parts.

There are a number of vehicles on the site. These vehicles include cars, trucks and trailers. Charles Lee of Workman and Doggett Auto Parts informed TAT that some of the vehicles belong to the Auto Parts store. Mr. Lee also told TAT that a car stripping operation was going on at the site until the Houston Police shut it down.

Over 400 drums of unknown content are present on site. Many of the drums are empty and/or overturned. The drums were checked for liquid contents. Those that had any contents were numbered consecutively with spray paint. The drums are in varying stages of deterioration and some are bulging. Measurements taken of the drum contents indicated material present with pH ranging from 0-13. For example, drum #81, labeled sulfuric acid, had a pH of 0. Drum #82, immediately adjacent to #81 had a pH of 13. Many of the drums bore labels. Information compiled from the labels is presented in Table 4 included in the attachment.

Vegetation on site consists of weeds and grass. The perimeter of the site is overgrown. Various areas show stress vegetation. There are areas of chemical stained soil evident throughout the site. Two large areas of soil discoloration where present. One is on the northeast corner of the site at the fence line. The other, at the southeast corner of the site, is also adjacent to the fence line. The land in the area is generally flat. Buffalo Bayou is less than one mile south of the site (see topographic map attachment).

The warehouse contains 91 steel drums, 20 filterboard barrels, 10 compressed gas cylinders and a 500 gallon polypropylene vat that is about half full. There is a small locked office in the southwest corner of the warehouse. This office has 10 five gallon cans. There is a loft along the interior south side of the warehouse where lumber is stored.

Ambient air monitoring was conducted with an explosimeter, the RAM 10, and the HNU photoionization detector. No explosive or oxygen deficient atmospheres were observed. No radiation above background was present. HNU readings above background where observed in various locations throughout the site. Outside of the warehouse several readings in the range of 3-5 (isobutylene equivalency) ppm were measured. Inside the warehouse, three separate readings of 15 ppm, 50 ppm and 110 ppm were measured.

C. Incident Characteristics

Historical accounts on this site are limited. However, the site was known to be the location of the May-Cooperidge Drum Reclamation Co. owned by Fred Winston. A complaint by an anonymous caller prompted the Texas Water commission (TWC) and the City of Houston to file complaints against Mr. Winston. Mr. Winston moved his operation to 3116 Jensen Drive from 1705 Davis Street, another site which is currently under EPA evaluation.

D. Quantity and Types of Substances Present

On 30 August 1988, Technical Assistance Team personnel collected and transported a vat sample, six drum and two soil samples to the EPA Houston laboratory for BNA and metals analysis. The approximate location of each sample is shown on the attached site sketch.

The results of analysis are summarized in the following tables. The laboratory report is included in the attachments. Inorganic analysis results for drum samples are shown in Table 1, also included is the EPA drinking water standards if applicable. Table 2 summarizes the inorganic results for the two soil samples. Table 3 is a summary of the organic analysis for both drum and soil samples. It included the concentrations and the toxicity properties of each compound of interest.

There are a number of inorganic compounds on site which can be considered toxic. Notably the levels of iron, lead and manganese are elevated. Those organic compounds listed as hazardous substances in 40 CFR 302.4 were considered of interest and reported with the pertinent toxicological information. The list is lengthy and includes a number of carcinogens.

E. State and Local Authorities Role:

F. Federal Action To Date:

On 30 August 1988, the EPA Emergency Response Branch conducted a site assessment at this site to evaluate the potential threat to the public health on the environment which exists at the site.

G. NPL Status

This site is not on the National Priorities List.

## III. THREAT TO PUBLIC HEALTH, WELFARE OR THE ENVIRONMENT

A. Three obvious threats to public health are present at the Jensen Street Site:

1). High concentrations of metals - metals can be highly toxic if ingested or inhaled. Metals may be transported offsite via airborne or surface migration and affect the surrounding properties.

2). Numerous toxic organic compounds - there are a large number of organic compounds that are hazardous substances. These compounds may be transported off site via airborne or surface migration and affect the surrounding properties. Headspace monitoring indicates the presence of volatile organic compounds which could potentially be toxic, explosive, flammable and/or carcinogenic. Of the compounds listed many when heated decompose and emit toxic fumes. A fire at the site could potentially cause an airborne disaster.

3). Numerous drums on-site - these drums are in varying stages of deterioration and many are leaking unknown compounds. The metals and hazardous organic compounds present a direct contact, inhalation and ingestion threat because of the deteriorating nature of the drums.

B. Threats to the Environment:

A release of these materials would contaminate the surrounding soil, water, and drainage area. An air release, possibly from a fire, would result in a much greater extent of contamination of the surrounding air, soil, water and vegetation.

## IV. Enforcement

## V. Proposed Actions and Costs

## VI. Expected Change In the Situation Should No Action Be Taken

Without further attention, the containers will continue to deteriorate. If this is allowed, the health and welfare of the area residents will be endangered. If the materials are inadvertently allowed to mix with one another, a fire and explosion danger to the local citizens may result. In the event of a fire toxic fumes would be emitted, endangering the local citizens in the area.

If a removal is not conducted soon, it is likely that a removal would have to be conducted under emergency conditions. The more time these containers are allowed to deteriorate, the greater the probability for the liberation and release of chemical substances to the atmosphere with detrimental health effects.

**VII. Important Policy Issues**

Not applicable

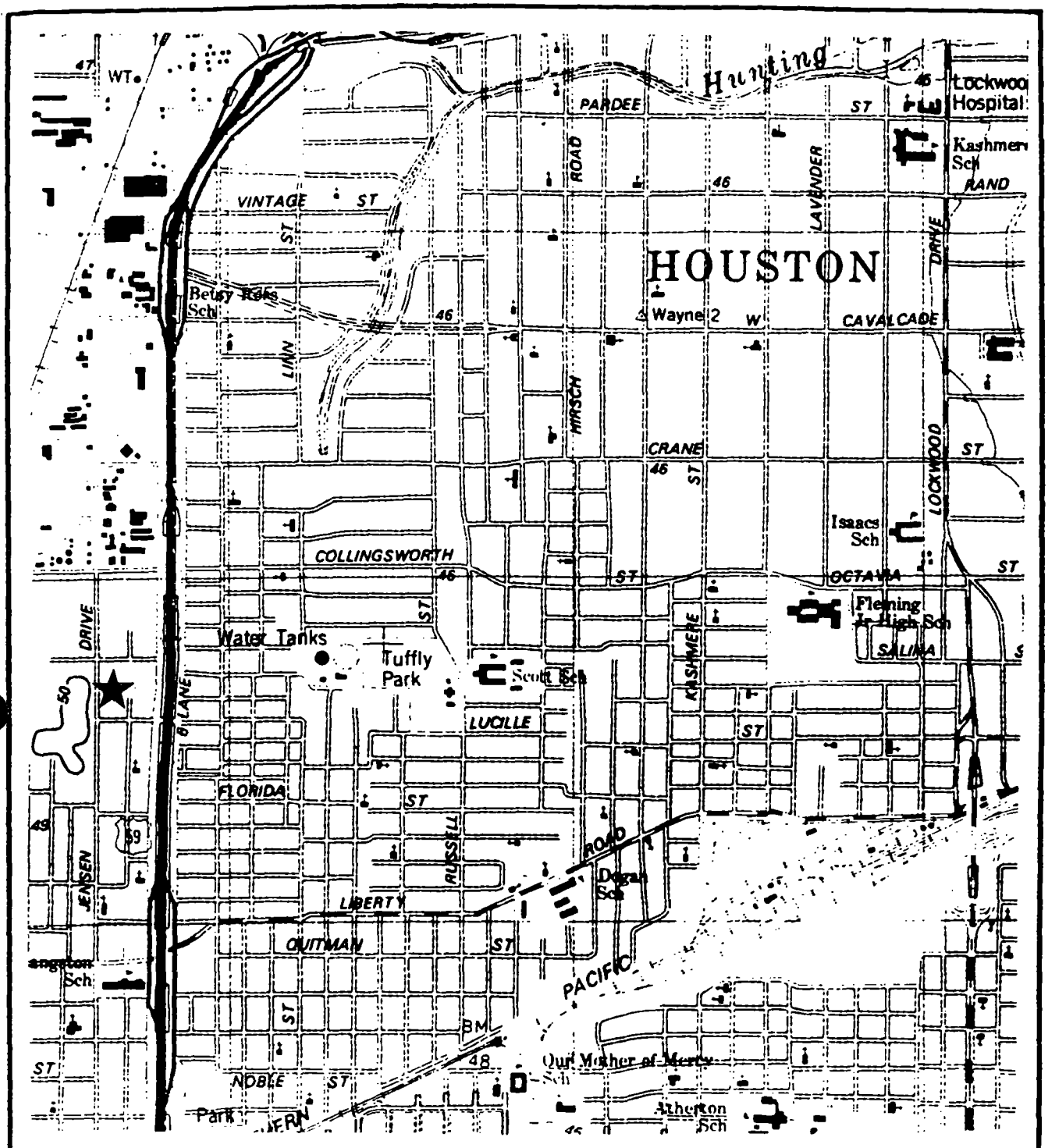
**VIII. Recommendation**

Because conditions at the site meet the NCP section 300.65 (b) (2) criteria for a removal, I recommend your approval of the proposed removal action. The estimated total project costs are of which are for extramural cleanup contractor costs. You may indicate your approval or disapproval by signing below.

List of Attachments:

Topographic Location Map (Figure 1)
Location Sketch (Figure 2)
Site Sketch, North Side of Site (Figure 3)
Site Sketch, Northeast side of Site (Figure 4)
Site Sketch, Southeast side of Site (Figure 5)
Site Sketch, Warehouse (Figure 6)
Photographs
Unused Photographs and Negatives
Records of Communication
Logbook Copies
Information From Drum Labels
Sample Custody Form
Analytical Results
Deed Information
Copy of TDD #: T06-8810-28

Figure 1




| | | | |
|---|---|---|---|
| | Ecology and Environment, Inc.<br>Technical Assistance Team<br>RegionVI | Case No: N/A | TDD No: T06-8810-28 |
| | | PAN: TTX 0829 SAB | Date: 11/10/88 |
| | | Originator: Patricia Herrera | |

Houston - Settegast Quadrant
Houston - Harris County
Topographic Location Map
Jensen Street Drum Site

Ka-0070

Table 4
Information Compiled From Drum Labels

| | Label Information | Contents | Full/Partial | Comments |
|---|---|---|---|---|
| 1 | Pelican Mudd Co.<br>713-952-7400 | | | |
| 2 | Ribelin | | | |
| 3 | Pelican Mudd Co.<br>713-952-7400 | | | |
| 4 | None | | | leaking |
| 5 | None | | | |
| 6 | Aspha Mul | | | |
| 7 | Mil Chem<br>390 Essex Ln<br>P.O. Box 22111<br>Houston, TX 77227 | Carbo-Tec - L | | |
| 8 | N/A | | Part | |
| 9 | N/A | | Part | |
| 10 | N/A | | Part | |
| 11 | N/A | | Part | |
| 12 | N/A | | Part | |
| 13 | Banner Labs Inc. | | | |
| 14 | N/A | | Part | |
| 15 | N/A | | Part | |
| 16 | | Polyester Styrene<br>Vinyl Toluene<br>Acrylate ? | | UN 1866, Un 1860<br>Hlth-2,Fire-3,<br>Rx-2,PPE-1 |
| 17 | N/A | Aircraft Lab<br>Odor Control<br>Compound | | |
| 18 | N/A | | Part | |
| 19 | N/A | | Part | |
| 20 | N/A | posibly oil | Full | |
| 21 | N/A | black laquer | | harmful Flammable liquid |
| 22 | N/A | methylimidazole | | UN 2735 |
| 23 | N/A | methylimidazole | | UN 2735 |
| 24 | Ashland Oil | N/A | N/A | N/A |
| 25 | Ashland Oil | N/A | N/A | N/A |
| 26 | N/A | paint | Full | UN 1263, ??? |
| 27 | N/A | paint | Full | UN 1263, ??? |
| 28 | N/A | paint | Full | UN 1263, ??? |
| 29 | Ashland Oil | | | UN 1866 |
| 30 | Ashland Oil | | | UN 1866 |
| 31 | N/A | paint | Full | UN 1263, ??? |
| 32 | N/A | paint | Full | UN 1263, ??? |
| 33 | Ashland Oil | | | UN 1866 |
| 34 | N/A | | Part | open |
| 35 | Ashland Oil | | | |
| 36 | Ashland Oil | | | |
| 37 | Ashland Oil | | | |
| 38 | Ashland Oil | | | |
| 39 | Ashland Oil | | | |
| 40 | Ashland Oil | | | |
| 1 | Conoco | | Part | Hazardous Waste<br>EPA waste #189 (or 89)<br>TXD 981544230 or |

K9-0071

| | | | | |
|---|---|---|---|---|
| 42 | Ashland Oil | laquer | | |
| 43 | Ashland Oil | | | |
| 44 | Ashland Oil | | | |
| 45 | PC Paint | laquer | | |
| 46 | Ashland Oil<br>shipped to<br>Hines Pottery<br>10450 West Gulfbank Dr.<br>Houston, TX | | | |
| 47 | Ashland Oil<br>shipped to<br>Hines Pottery<br>10450 West Gulfbank Dr.<br>Houston, TX | | | suite ?, unopened |
| 48 | | waste | part | rainwater |
| 49 | Reichhold Chemical<br>Houston, TX or<br>525 N. Bdwy<br>White Plains, NY | polyester resin | | UN 1866, leaking<br>flamm liq<br>Reichhold per-<br>formance technol. |
| 50 | Reichhold Chemical<br>Houston, TX or<br>525 N. Bdwy<br>White Plains, NY | polyester resin | | UN 1866, leaking<br>flamm liq<br>Reichhold per-<br>formance technol. |
| 51 | Ashland Chemical | | | UN 1866 |
| 52 | PC Speciality System | laquer | | |
| 53 | Chemtron Chemical<br>Fresno, CA | unsaturated<br>polyester resin<br>vinyl toluene<br>acrylate monomer<br>styrene | | UN 1866 |
| 54 | Ashland Chemical | | | |
| 55 | N/A | waste polymer | | solid, open |
| 56 | PC Speciality System | | | |
| 57 | N/A | xylol resin | | sludge |
| 58 | ??? | | | UN 1760, paraffin odor<br>waste, carr. 8 |
| 59 | Imperial Chemical<br>Speciality Chemical<br>Manchester, England | | | prod code - 05198<br>UN 1760 |
| 60 | unnumbered drums | | | corrosive liq |
| 61 | unnumbered drums | | | NOS, stain on ground |
| 62 | unnumbered drums | | | 2 yards, odor in area |
| 63 | unnumbered drums | | | same |
| 64 | unnumbered drums | | | same |
| 65 | unnumbered drums | | | same |
| 66 | unnumbered drums | | | same |
| 67 | unnumbered drums | | | same |
| 68 | unnumbered drums | | | same |
| 69 | unnumbered drums | | | same |
| 70 | unnumbered drums | | | same |
| 71 | unnumbered drums | | | same |
| ? | unnumbered drums | | | same |
| .3 | unnumbered drums | | | same |
| 74 | unnumbered drums | | | same |

| | | | | |
|---|---|---|---|---|
| 75 | NL ??? | | | |
| 76 | N/A | | | |
| 77 | N/A | | part | |
| 78 | N/A | | full | |
| 79 | N/A | | full | |
| 80 | N/A | | full | |
| 81 | N/A | sulfuric acid | part | UN 1790,corroding |
| 82 | N/A | | full | |
| 83 | Ethyl Corp | alcohol & hydro-carbon oils | | BPAL 20+ |
| 84 | N/A | not oil | full | |
| 85 | N/A | | full | |
| 86 | N/A | | full | |
| 87 | N/A | | | |
| 88 | Ashland Chemical | | full | UN 1933,across |

| | | | | |
|---|---|---|---|---|
| | Pelican Mudd Co. | | | |
| | 713-952-7400 | | | |
| | Ribelin | | | |
| | Pelican Mudd Co. | | | |
| | Aspha Mul | | | |
| | Mil Chem | Carbo-Tec - L | | |
| | 390 Essex Ln | | | |
| | P.O. Box 22111 | | | |
| | Houston, TX 77227 | | | |
| | Banner Labs Inc. | | | |
| | Ashland Oil | N/A | N/A | |
| | Conoco | | Part | |
| | PC Paint | laquer | | |
| | Ashland Oil | | | |
| | shipped to | | | |
| | Hines Pottery | | | |
| | 10450 West Gulfbank Dr. | | | |
| | Houston, TX | | | |
| | Reichhold Chemical | polyester resin | | |
| | Houston, TX or | | | |
| | 525 N. Bdwy | | | |
| | White Plains, NY | | | |
| | PC Speciality System | laquer | | |
| | Chemtron Chemical | unsaturated | | |
| | Fresno, CA | polyester resin | | |
| | | vinyl toluene | | |
| | | acrylate monomer | | |
| | | styrene | | |
| | Imperial Chemical | | | |
| | Speciality Chemical | | | |
| | Manchester, England | | | |
| | Ethyl Corp | alcohol & hydro- | | |
| 7 | Mil Chem | Carbo-Tec - L | | |
| | 390 Essex Ln | | | |
| | P.O. Box 22111 | | | |
| | Houston, TX 77227 | | | |
| 16 | | Polyester Styrene | | UN 1866, Un 1860 |
| | | Vinyl Toluene | | Hlth-2,Fire-3, |
| | | Acrylate ? | | Rx-2,PPE-1 |
| 17 | N/A | Aircraft Lab | | |
| | | Odor Control | | |
| | | Compound | | |
| 20 | N/A | posibly oil | Full | |
| 21 | N/A | black laquer | | harmful Flammable liquid |
| 22 | N/A | methylimidazole | | UN 2735 |
| 23 | N/A | methylimidazole | | UN 2735 |
| 26 | N/A | paint | Full | UN 1263, ??? |
| 27 | N/A | paint | Full | UN 1263, ??? |
| 28 | N/A | paint | Full | UN 1263, ??? |
| 29 | Ashland Oil | | | UN 1866 |
| | Ashland Oil | | | UN 1866 |
| 31 | N/A | paint | Full | UN 1263, ??? |
| 32 | N/A | paint | Full | UN 1263, ??? |

| | | | | |
|---|---|---|---|---|
| 33 | Ashland Oil | | | UN 1866 |
| 41 | Conoco | | Part | Hazardous Waste<br>EPA waste #189 (or 89)<br>TXD 981544230 or<br>TXD 982544230 |
| 42 | Ashland Oil | laquer | | |
| 45 | PC Paint | laquer | | |
| 48 | | waste | part | rainwater |
| 49 | Reichhold Chemical<br>Houston, TX or<br>525 N. Bdwy<br>White Plains, NY | polyester resin | | UN 1866, leaking<br>flamm liq<br>Reichhold per-<br>formance technol. |
| 50 | Reichhold Chemical<br>Houston, TX or<br>525 N. Bdwy<br>White Plains, NY | polyester resin | | UN 1866, leaking<br>flamm liq<br>Reichhold per-<br>formance technol. |
| 51 | Ashland Chemical | | | UN 1866 |
| 52 | PC Speciality System | laquer | | |
| 53 | Chemtron Chemical<br>Fresno, CA | unsaturated<br>polyester resin<br>vinyl toluene<br>acrylate monomer<br>styrene | | UN 1866 |
| 55 | N/A | waste polymer | | solid, open |
| 57 | N/A | xylol resin | | sludge |
| 58 | ??? | | | UN 1760, paraffin odor<br>waste, carr. 8 |
| 59 | Imperial Chemical<br>Speciality Chemical<br>Manchester, England | | | prod code - 05198<br>UN 1760 |
| 60 | unnumbered drums | | | corrosive liq |
| 61 | unnumbered drums | | | NOS, stain on ground |
| 62 | unnumbered drums | | | 2 yards, odor in area |
| 63 | unnumbered drums | | | same |
| 64 | unnumbered drums | | | same |
| 65 | unnumbered drums | | | same |
| 66 | unnumbered drums | | | same |
| 67 | unnumbered drums | | | same |
| 68 | unnumbered drums | | | same |
| 69 | unnumbered drums | | | same |
| 70 | unnumbered drums | | | same |
| 71 | unnumbered drums | | | same |
| 72 | unnumbered drums | | | same |
| 73 | unnumbered drums | | | same |
| 74 | unnumbered drums | | | same |
| 81 | N/A | sulfuric acid | part | UN 1790,corroding |
| 83 | Ethyl Corp | alcohol & hydro-<br>carbon oils | | BPAL 20+ |
| 84 | N/A | not oil | full | |
| 88 | Ashland Chemical | | full | UN 1933,across |

K9-0075

ATTACHMENT II.

Table 1
Inorganic Analysis Results from Drum Sample Jensen Drive Site, With laboratory numbers 8TFAKC46 01 through 10
Results Reported in ug/L

| Element | 01 | 02 | 05 | 06 | 08 | 09 | 10 | Drinking Water Std |
|---|---|---|---|---|---|---|---|---|
| Aluminum | | | 722 | | 203 | 279 | 2480 | - |
| Antimony | 520 | 356 | | | | | | - |
| Barium | | 122 | 144 | 74 | | | 153 | 1 |
| Beryllium | | | | | 50 | 67 | | 11* |
| Cadmium | 18 | | | | | | | 10 |
| Calcium | | 52900 | 1610 | 14300 | 1800 | 3320 | 2400 | - |
| Chromium | | 106 | 264 | | | | 39 | 50 |
| Cobalt | | 1800 | 3190 | | | | | - |
| Copper | 388 | 88 | 9760 | 50 | | | 162 | 1000 |
| Iron | 83 | 20700 | 7960 | 9460 | 440000 | 494000 | 1050 | 300 |
| Lead | | 269 | 57300 | | | 133 | 129 | 50 |
| Magnesium | | 424000 | 8150 | 1150 | | | 1940 | - |
| Manganese | | 2990 | 132 | 95 | 5820 | 6000 | 46 | 50 |
| Nickel | | 52 | 50 | | | | | - |
| Potassium | | 20100 | | 5130 | | 16600000 | | - |
| Sodium | | 124000 | 2310 | 26800 | 5660 | 6060 | 3140000 | - |
| Zinc | 661 | 448 | 1770 | 302 | 72 | 144 | 177 | 5000* |

- No EPA drinking water standard.

* Suggested criterion for drinking water, there is no EPA drinking water standard.

Table 2
Inorganic Analysis Results From Soil Samples At Jensen Drum Site With
laboratory numbers 8TFAKC46 03 and 04

Results Reported in mg/kg

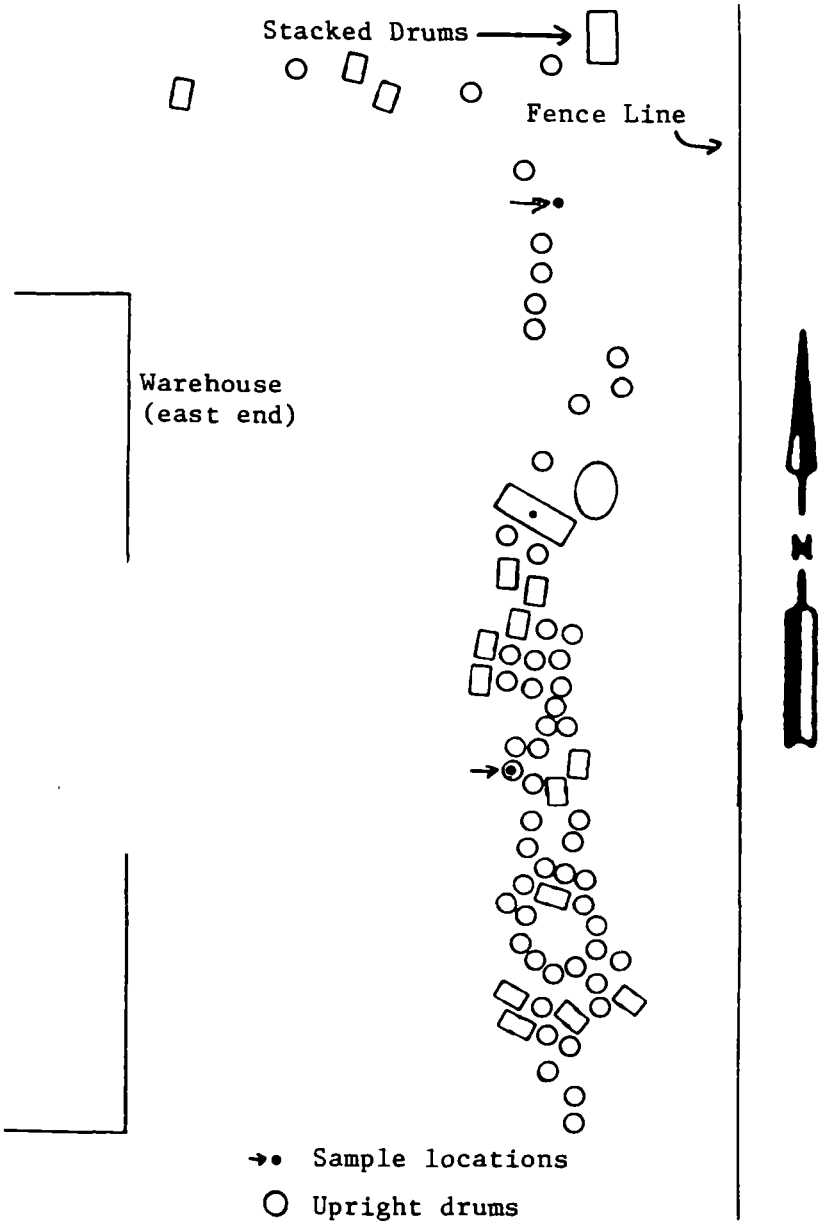
| Element | 03 | 04 |
|---|---|---|
| Antimony | 13 | |
| Barium | 182 | 117 |
| Beryllium | 3 | 1 |
| Cadmium | 1 | 1 |
| Chromium | 17 | 8 |
| Cobalt | 4 | 2 |
| Copper | 34 | 18 |
| Lead | 158 | 127 |
| Mercury | | 0.4 |
| Nickel | 17 | 5 |
| Zinc | 381 | 333 |

Table 3 Organic Analysis Results From Drum
and Soil Sample at Jensen
Drum Site With Chemical Properties of Substances Detected.

| Sample # | Substance | Concentration | Toxicity Properties |
|---|---|---|---|
| 02 | 2,4 - Dimethylphenol | 366 ug/L | An equivocal tumorigenic agent; high oral, intra-peritoneal and intravenous. Disaster hazard: when heated to decomposition it emits toxi fumes. |
| | 1 Bis - (2-ethylhexyl) phethalate | 235 ug/L | Teratogenic effects; gastro-intestinal tract effects; possible human carcinogen; high intravenous; low oral, and intra-peritoneal; mild irritation effects skin, eye, and systemic. Disaster hazard: when heated to decom-position it emits toxic fumes. |
| | Benzoic acid | 515 ug/L | High toxicity by vapor inhalation, a moderate skin irritant. Disaster hazard: When heated to decomposition it emits toxic fumes. |
| 03 | 2 - Methylnaphthalene | 28,500 ug/kg | Low oral. Disaster hazard: when heated to decomposition it emits toxic fumes. |
| 05 | Naphthalene | 210 ug/L | Moderate oral; high intra-peritoneal and intravenous. An equivocal tumorigenic agent. Poisoning may occur by ingestion of large doses, inhalation or skin absorption. Moderate fire hazard when exposed to heat or flame. |
| | Phenanthrene | 25 ug/L | Neoplastic effects; an equivocal tumorigenic agent, mutagen. High intravenous; moderate oral. Skin photo- |

| | | | |
|---|---|---|---|
| | | | sensitizer. A slight fire hazard. Disaster hazard: when heated to decomposition it emits toxic fumes. |
| | Fluoranthene | 23 ug/L | An equivocal tumorigenic agent; high intravenous, moderate oral and skin, mutagenic. Slight fire hazard when exposed to heat or flame. Disaster hazard: when heated to decomposition it emits toxic fumes. |
| | Pyrene | 13 ug/L | Mutagenic; an equivocal tumorigenic agent; a skin irritant. Disaster hazard: when heated to decomposition it emits toxic fumes. |
| 06 | 2,4 - Dimethyphenol | 1370 ug/L | Mutagenic; an equivocal tumorigenic agent; a skin irritant. Disaster hazard: when heated to decomposition it emits toxic fumes. |
| | Isophorone | 129 ug/L | Serious eye, nose and throat irritant by inhalation; seriously toxic by inhalation |

Figure 4




Location of drums
and other objects
at the Jensen Drive
drum site (northeast area).

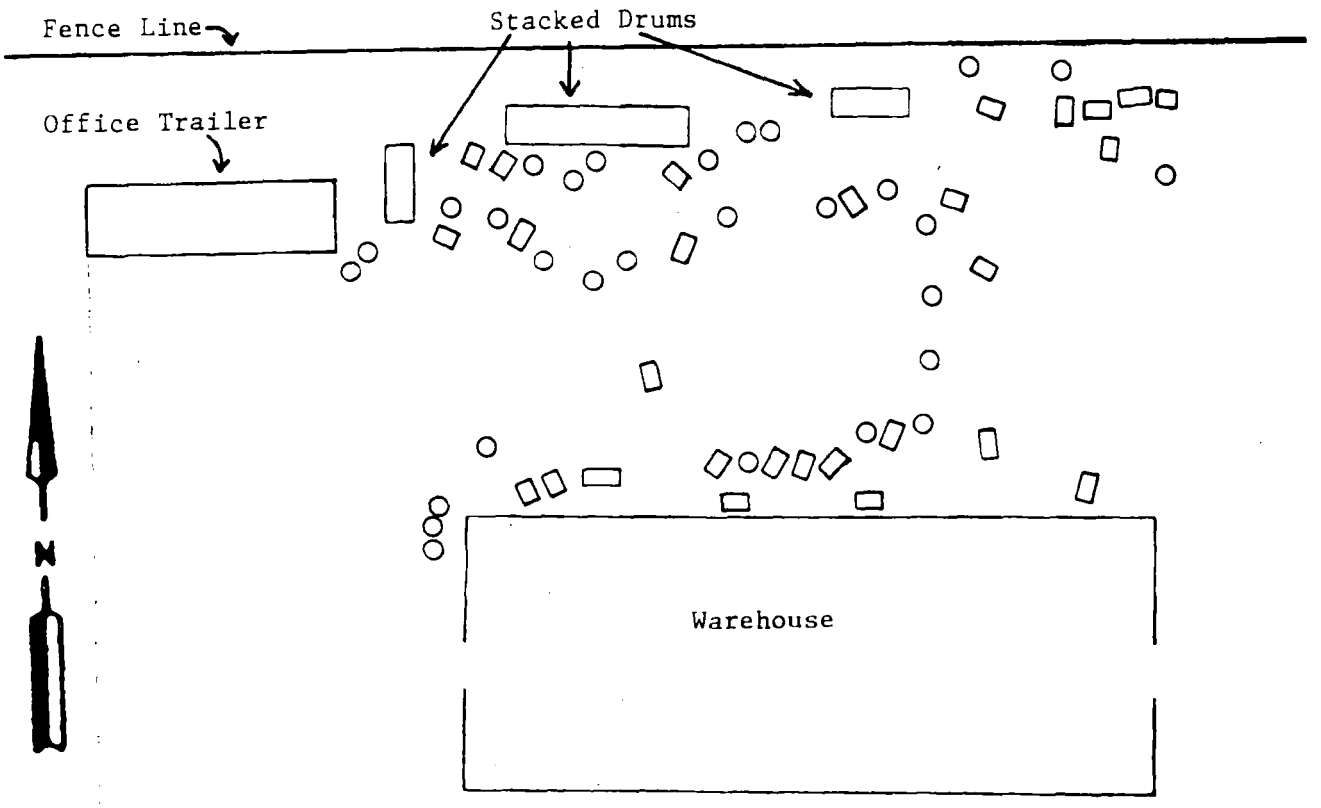
Sample locations
Upright drums
Overturned drums
Vehicles
Plastic liners

Not To Scale

| | | | |
|---|---|---|---|
| | Ecology and Environment, Inc. Technical Assistance Team Region VI | Case No: | TDD No: T06-8810-28 |
| | | PAN: TTX 0829 SAB | Date: 10-18-88 |
| | | Originator: Michael C. Taormina | |

KQ- 0080

Figure 3




Location of drums and other objects at the Jensen Drive drum site (north side of warehouse).

○ Upright drums

□ Overturned drums

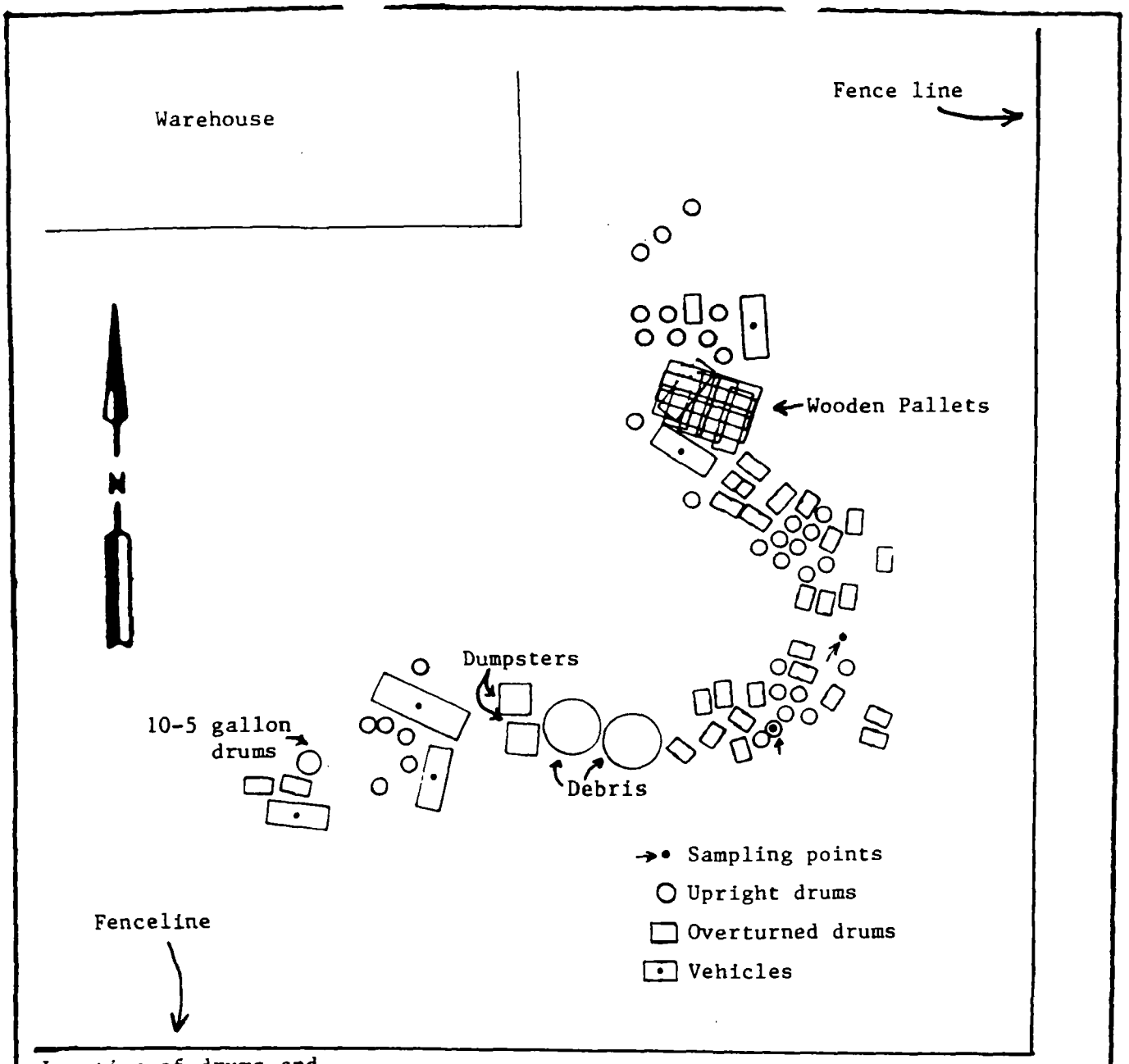
▭ Vehicles

Not To Scale

| | | | |
|---|---|---|---|
| | Ecology and Environment, Inc. Technical Assistance Team Region VI | Case No: | TDD No: T06-8810-28 |
| | | PAN: TTX 0829 SAB | Date: 10-18-88 |
| | | Originator: Michael C. Taormina | |

K9-0081

Figure 5



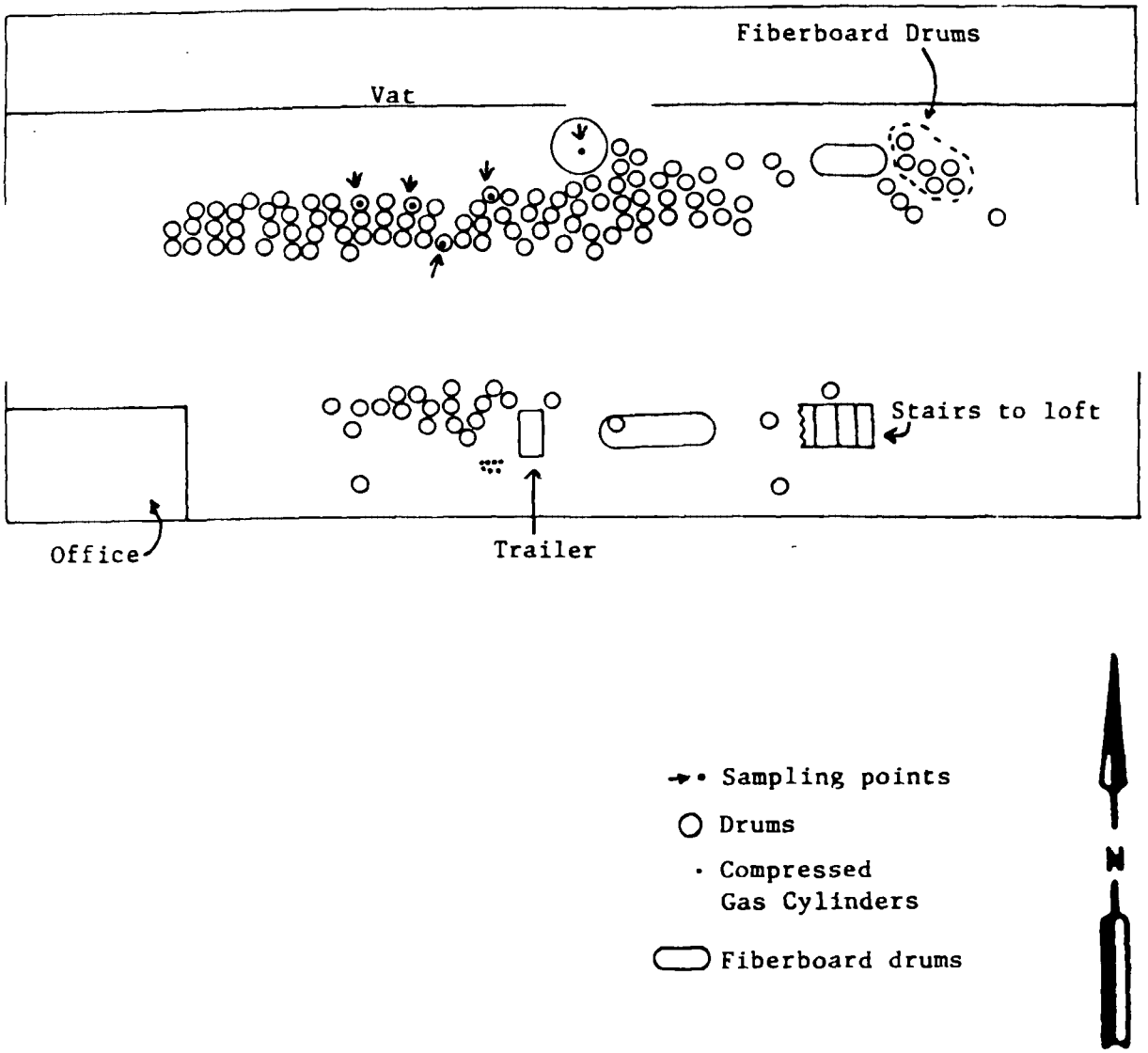

Location of drums and other objects at the Jensen Drive drum site (southeast corner).

Not To Scale

| | | | |
|---|---|---|---|
| | Ecology and Environment, Inc. Technical Assistance Team Region VI | Case No: | TDD No: T06-8810-28 |
| | | PAN: TTX 0829 SAB | Date: 10-18-88 |
| | | Originator: Michael C. Taormina | |

K9-0082

Figure 6




Sketch of warehouse
at Jensen Drive drum site

Not To Scale

| | | | |
|---|---|---|---|
| Ecology and Environment, Inc. Technical Assistance Team Region VI | Case No: | TDD No: T06-8810-28 | |
| | PAN: TTX 0829 SAB | Date: 10-18-88 | |
| | Originator: Michael C. Taormina | | |

K9-0083

TDD#: T06-8810-28 Pg. 1 of 12

PHOTOGRAPHER/WITNESS #1 - roll 1

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/ 1056/ N

COMMENTS: Sign at entrance of site.

K9-0084

TDD#: T06-8810-20 Pg. 2 of 12

PHOTOGRAPHER/WITNESS # 2-4 - roll 1

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/1102/E

COMMENTS: Drums at northeast area of site, behind warehouse.

K9-0085

TDD#: T06-8810-28 Pg. 4 of 12

PHOTOGRAPHER/WITNESS #7 - roll

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/1105 / W

COMMENTS: Photo of interior of warehouse.

KQ-0086

TDD#: T06-8810-28 Pg. 5 of 12

PHOTOGRAPHER/WITNESS # 8-10 - roll 2

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/ 1107/ NE

COMMENTS: Pan of NE corner of site showing drums, vegetation, and spill on ground.

K9-0087

TDD#: T06-8810-28 Pg. 6 of 12

PHOTOGRAPHER/WITNESS #11 - roll 2

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/1108 / NW

COMMENTS: Drum and liquid spill on north side of the building.

PHOTOGRAPHER/WITNESS #12 - roll 2

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/ 1108/ NW

COMMENTS: Photo shows spill, stressed vegetation, drums and debris on north side of the building.

TDD#: T06-8810-28 Pg. _ _ of 12

PHOTOGRAPHER/WITNESS #13- roll 2

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/1108 /N

COMMENTS: Stacked drums and stressed vegetation on north side of property. Note residence just beyond the fence.

PHOTOGRAPHER/WITNESS #14 - roll 2

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/1111/W

COMMENTS: Photo shows drums, stressed vegetation and chemical stain.

TDD#: T06-8810-28 Pg. 8 of 12

PHOTOGRAPHER/WITNESS #15 - roll 2

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/1112 / W

COMMENTS: Photo of drums, and one that originally contained a herbicide.

PHOTOGRAPHER/WITNESS # 16 - roll 2

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/ 1112/ E

COMMENTS: Interior of warehouse showing drums, vat and debris.

TDD#: T06-8810-28 Pg. ___ of 12

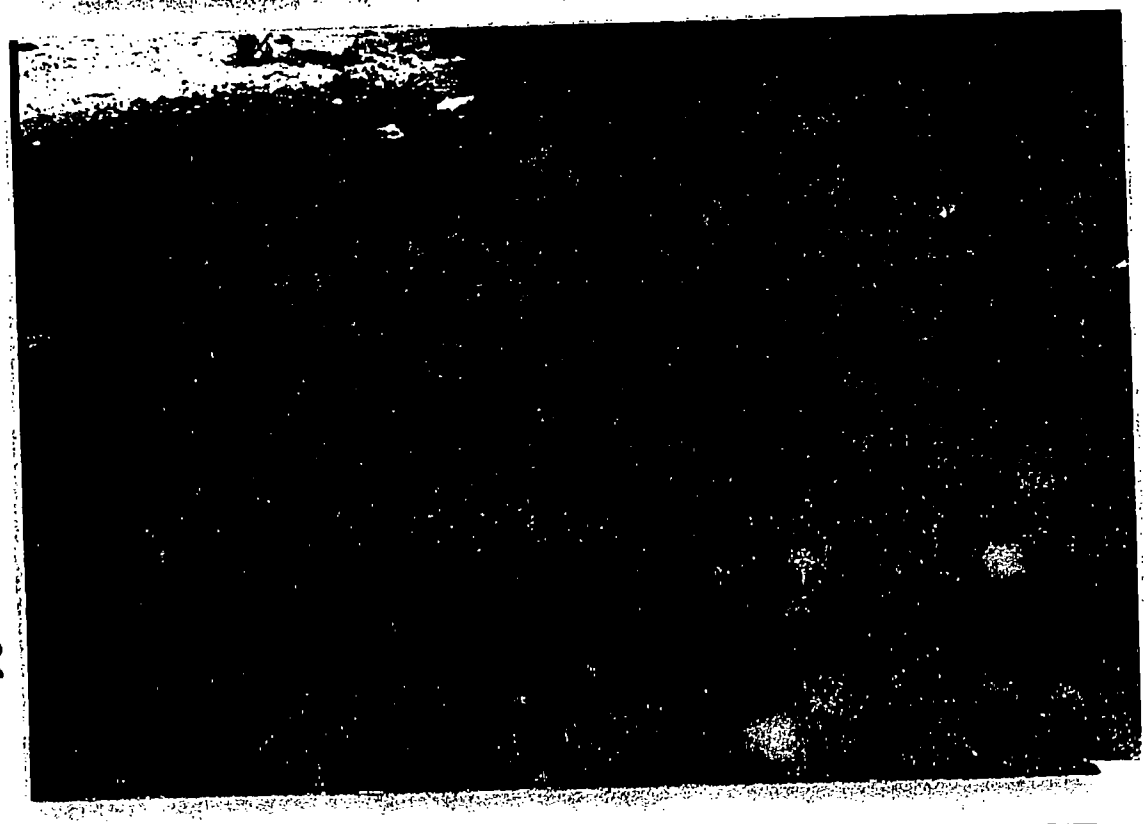
PHOTOGRAPHER/WITNESS #17- roll 2

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/1115 /E

COMMENTS: Drums and abandonded vehicles on south end of site.



PHOTOGRAPHER/WITNESS #18- roll 2

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/1117 /W

COMMENTS: Chemical stains in puddle near SE corner of warehouse.

K9-0091

TDD#: T06-8810-28 Pg. 10 of 12

PHOTOGRAPHER/WITNESS # 19- roll 2

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/1118/E

COMMENTS: Inside of dumpster showing polymer - like material.

KQ- 0092

TDD#: T06-8810-28 Pg. 11 of 12

PHOTOGRAPHER/WITNESS # 20-22- roll 2

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/1119/ E

COMMENTS: Pan of drums and debris in southeast area of site. Note stains on ground.

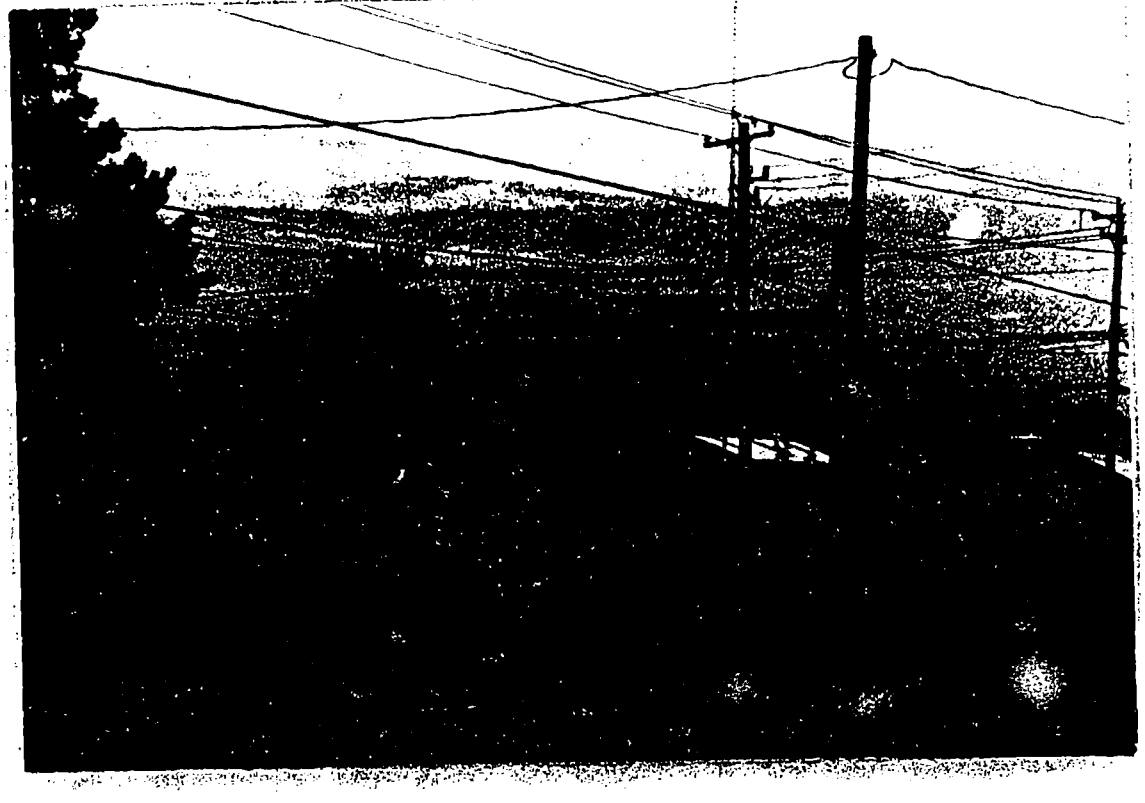
PHOTOGRAPHER/WITNESS # 23- roll 2

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/1122 / W

COMMENTS: Drums and stained ground on east side of warehouse.



PHOTOGRAPHER/WITNESS # 24- roll 2

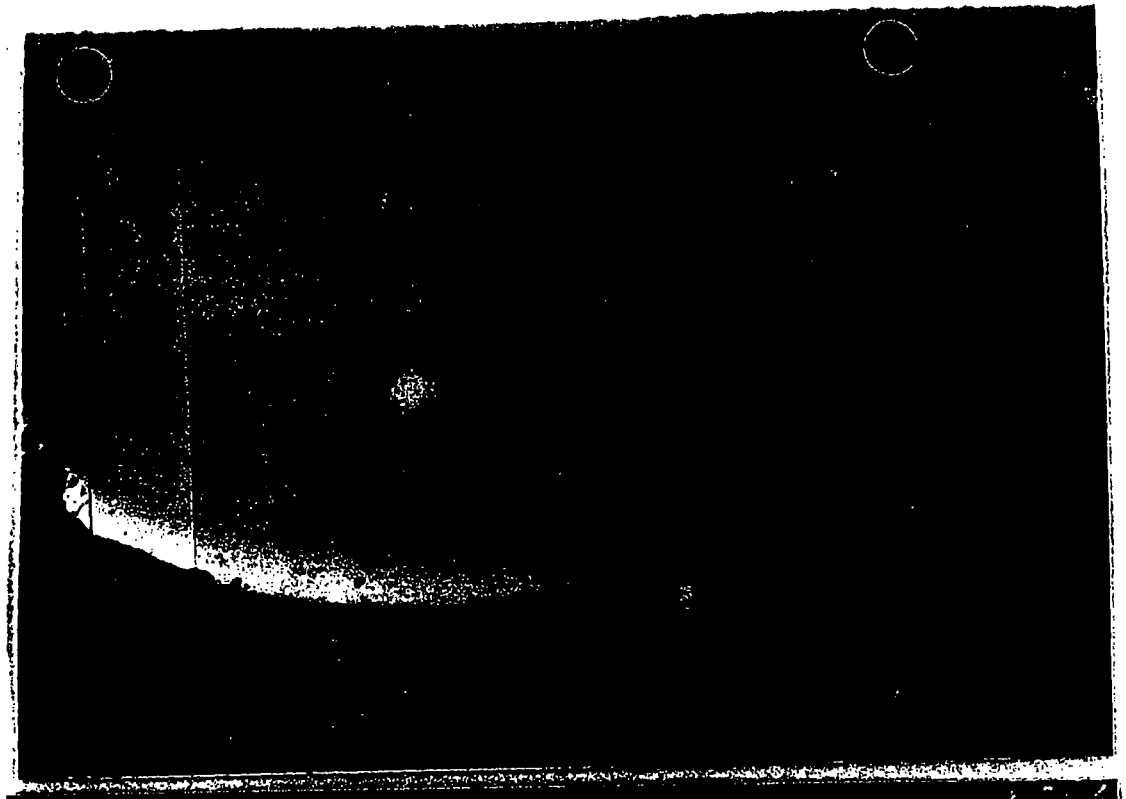
Richard Yeager

DATE/TIME/DIRECTION

8-19-88/ 1127/ NW

COMMENTS: Sign and entrance to site. Street is Jensen Drive.

Cerclis# TXD987966900 TDD# T06-8810-28
Unused Photographs and Negatives



TDD#: T06-8810-28 Pg. 3 of 12

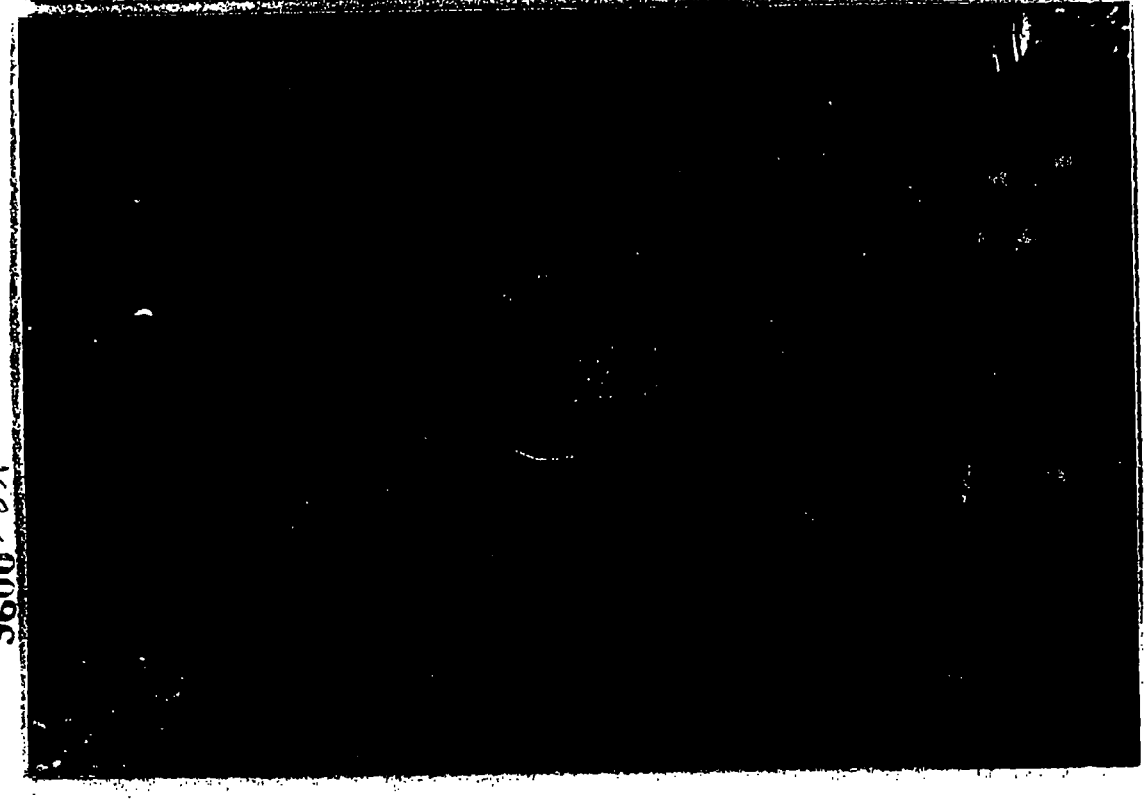
PHOTOGRAPHER/WITNESS #5 - roll1

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/1103 / E

COMMENTS: Label on drum showing warnings and original contents.



PHOTOGRAPHER/WITNESS # 6 - roll1

Richard Yeager

DATE/TIME/DIRECTION

8-19-88/1104/ E

COMMENTS: Label on drum showing origin and original contents of drum.

K9-0096

ATTACHMENT II.

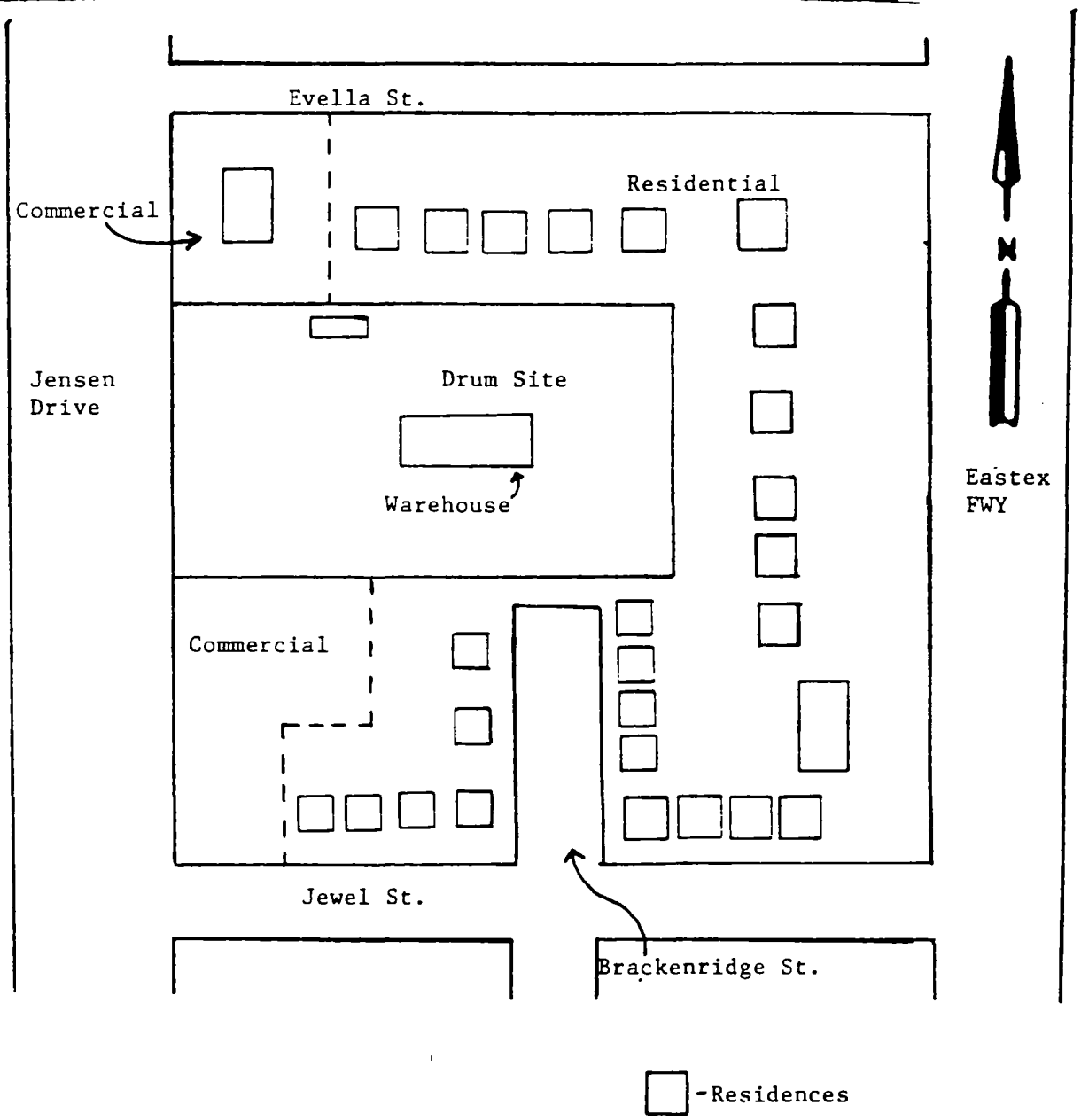
Table 1
Inorganic Analysis Results from Drum Sample Jensen Drive Site, With laboratory numbers 8TFAKC46 01 through 10
Results Reported in ug/L

| Element | 01 | 02 | 05 | 06 | 08 | 09 | 10 | Drinking Water Std |
|---|---|---|---|---|---|---|---|---|
| Aluminum | | | 722 | | 203 | 279 | 2480 | - |
| Antimony | 520 | 356 | | | | | | - |
| Barium | | 122 | 144 | 74 | | | 153 | 1 |
| Beryllium | | | | | 50 | 67 | | 11* |
| Cadmium | 18 | | | | | | | 10 |
| Calcium | | 52900 | 1610 | 14300 | 1800 | 3320 | 2400 | - |
| Chromium | | 106 | 264 | | | | 39 | 50 |
| Cobalt | | 1800 | 3190 | | | | | - |
| Copper | 388 | 88 | 9760 | 50 | | | 162 | 1000 |
| Iron | 83 | 20700 | 7960 | 9460 | 440000 | 494000 | 1050 | 300 |
| Lead | | 269 | 57300 | | | 133 | 129 | 50 |
| Magnesium | | 424000 | 8150 | 1150 | | | 1940 | - |
| Manganese | | 2990 | 132 | 95 | 5820 | 6000 | 46 | 50 |
| Nickel | | 52 | 50 | | | | | - |
| Potassium | | 20100 | | 5130 | | 16600000 | | - |
| Sodium | | 124000 | 2310 | 26800 | 5660 | 6060 | 3140000 | - |
| Zinc | 661 | 448 | 1770 | 302 | 72 | 144 | 177 | 5000* |

- No EPA drinking water standard.

* Suggested criterion for drinking water, there is no EPA drinking water standard.

ATTACHMENT 1




Sketch of location of Jensen Drive drum site showing proximity to residences

Not To Scale

| | | | |
|---|---|---|---|
| | Ecology and Environment, Inc. Technical Assistance Team Region VI | Case No: N/A | TDD No: T06-8810-28 |
| | | PAN: TTX 0829 SAB | Date: 10-18-88 |
| | | Originator: Michael C. Taormina | |

Site Sketch
Jensen Street Drum Site
Houston, Texas

KA-0098

Origins

# PHONE CONVERSATION RECORD

Conversation with:

Name: CALVIN SIMMONS

Company: re: MAY COOPERIDGE DRUM

Address: 3116 JENSEN ST
HOUSTON TX

Phone: (b) (6) [redacted]

Subject: Jensen St. and Davis St. Drum Sites

Date: 10/ 4/ 88

Time: 1315 AM/PM

(incoming)

__ Originator Placed Call

X Originator Received Call

W.O. No.:

Notes: Purpose: To get help from Pat Hammack regarding Pat's site visit to the Jensen St. Drum site.

Result: Mr. Simmons called from jail to see if he could get pictures from OSC Hammack. These pictures may contain Mr. Simmons. Mr. Simmons said he spoke with OSC Hammack while OSC Hammack was making a preliminary site investigation.

Mr. Simmons said he could give the EPA names of people who left drums at the warehouse.

Mr. Simmons mentioned the names of RD + RJ Drory and Fred [Winston] referring to the drums of the property and the drum operation.

TAT said it would relay the message and information to OSC Hammack. A message could be left at (b) (6) [redacted]

__ File:

__ Tickle File: / /

__ Follow-Up By:

_ Copy/Route To:

Follow-Up Action: Call Pat Hammack

Originator's Initials: [illegible]

K9-0099

Originat

PHONE CONVERSATION RECORD

Conversation with:
Name: Pat Hammack
Company: EPA Dallas
Address:

Phone: 214-655-2270

Date: 10/ 4/ 88
Time: 1340 AM/PM

_____ Originator Placed Call
_____ Originator Received Call
W.O. No.:

Subject: Jensen St. and Davis St. Drum Sites

Notes: Purpose: To give OSC Hammack information from Mr. Calvin Simmons as presented on the previous Phone Conversation Record.

Resolution: TAT conveyed the information found on the previous conversation record.

____ File:
____ Tickle File: ____/____/____
____ Follow-Up By:
____ Copy/Route To:

Follow-Up Action: None

Originator's Initials: (MC)

KG-0100

Origina:

# PHONE CONVERSATION RECORD

Conversation with:

me: CHARLES LEE

Company: ~~Dark~~ DOGGETT + WORMAN AUTO PARTS

Address: 3111 JENSEN ST

HOUSTON TX

Phone: (b) (6) [redacted]

Date: 11/2/88

Time: 0950 AM

X Originator Placed Call

____ Originator Received Call

W.O. No.:

Subject: Jensen St. ~~and Davis St.~~ Drum Sites

Notes: Purpose: To find phone numbers for R J GRAY - landowner at 3116 Jensen St.

Result: Mr. Lee had no number for R J Gray, but did have a number for his son Richard D Gray

(b) (6) [redacted]

lives in Humble.

File:

Tickle File: / /

Follow-Up By:

Copy/Route To:

Follow-Up Action: Call R D Gray

Originator's Initials: MCP

K9-0101

Original

# PHONE CONVERSATION RECORD

Conversation with:

Name: RICHARD D GRAY

Company: JENSEN SITE

Address:

Phone: (b) (6) [redacted]

Date: 10/ 3 / 88

Time: 0455

X Originator Placed Call

____ Originator Received Call

W.O. No.:

Subject: Jensen St. and Davis St. Drum Sites

Notes: Purpose: To find the phone number of his father R D Gray

Result: Ronald D Gray lives in Joplin
Home phone: (b) (6) [redacted]
Work phone: 409-829-7282

Mr. RD Gray said that Mr. Winston knows who brought drum to the warehouse - one entity being Fisher Drum or Disposal.

Mr. Gray wants to help any way he can.

TAT gave Mr. Gray PSC's Pat Hammock's name & phone number so that he could give Pat information and get advice.

____ File:

____ Tickle File: ____/____/____

____ Follow-Up By:

____ Copy/Route To:

Follow-Up Action: Call PAT Hammock with information

Originator's Initials: [illegible]

KQ-0102

Original

# PHONE CONVERSATION RECORD

Conversation with:

Name: PAT HAMMACK

Company: EPA DALLAS

Address:

Phone: 214-655-2270

Date: 10/3/88

Time: 1025 AM/PM

X Originator Placed Call

____ Originator Received Call

W.O. No.:

Subject: Jensen St. ~~and Davis St~~. Drum Sites

Notes: Purpose: Give OSC Hammack information about Mass Gray, and ask about information to get the title search done.

Results: OSC Hammack had already spoken to Mr. Gray. Mr. Gray will get names of people ~~who~~ Mr. W. from whom Mr. Winston received drums.

Instructions for TAT:

- Call Mr. Winston and get names from him also.
- Commence a title search on both Jensen St and Davis St sites for the last 10 years.

File:

Tickle File: / /

Follow-Up By:

Copy/Route To:

Follow-Up Action: As above

Originator's Initials: [illegible]

KG-0103

Michael C. Taormina

Originator

# PHONE CONVERSATION RECORD

Conversation with:

Name: FRED WINSTON

Company: MAY CORPORATION

Address: 3116 JENSEN
HOUSTON TX

Phone: (b) (6) [redacted]

Date: 10/3/88

Time: 1250 AM/PM

X Originator Placed Call

____ Originator Received Call

W.O. No.:

Subject: Jensen St. and Davis St. Drum Sites

Notes: Purpose to call Mr Winston from whom he may have received drums.

Result: Mr Winston gave TAT the following information

SAMMY FISHER
LIONEL FLANNIGAN - (b) (6) [redacted]
MARK PETER - MAVERICK DRUM CO.
VERDI BOBBINS ON YELLOWSTONE [BLVD]

Mr Winston said the drums were placed in the warehouse ~~on Jensen St.~~ @ [3116 JENSEN] without his knowledge.

Mr Winston said he would call TAT with more information

File:

Tickle File: / /

Follow-Up By:

Copy/Route To:

Follow-Up Action: Wait for more information - call Hammack for direction

Originator's Initials: MCT

K9-0104

**RECORD OF COMMUNICATION**

☒ PHONE CALL ☐ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE
☐ OTHER (SPECIFY)

(Record of item checked above)

TO: Mr. Larry Smith, Pres, Pelican Mud Co., Houston (713) 952-7400

FROM: Wally Cooper, EPA

DATE: 12-12-88

TIME: 1845pm

SUBJECT: 3116 Jensen Drive Drum Site, Houston, Texas

SUMMARY OF COMMUNICATION

Mr. Smith was contacted concerning drums with his company's name on them at the above site. It was explained to him how he is a PRP and he is interested in participating in the clean up. He is sending someone out to the site to get an idea of what is involved and he will contact Pat Hammack by telephone before 4:00pm 12/13/88 and give him a definite answer concerning his involvement.

CONCLUSIONS, ACTION TAKEN OR REQUIRED

~~INFORMATION COPIES~~
TO: Mullins, Hammack, Zehner, FILE

R6-123 (2-84)

K9- 0105

**RECORD OF COMMUNICATION**

☒ PHONE CALL ☐ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE
☐ OTHER (SPECIFY)

(Record of item checked above)

TO: 272-1594
Mr. Charles A. Ribelin, Chmn.
Ribelin Sales, Inc., Garland, Tx

FROM: Wally Cooper, EPA

DATE: 12-12-88

TIME: 2:00pm

SUBJECT
3116 Jensen Drive Drum Site, Houston, Texas

SUMMARY OF COMMUNICATION

Mr. Ribelin was contacted concerning drums with his company's name on them at the above site. It was explained to him how he is a PRP and he said he was definitely interested in cooperating with the cleanup to what ever degree he is liable.

He has a Houston Office, Tel. #(713)688-772. and Mr. Buster Brown is the Safety and Environmental Coordinator for the company. Mr. Michael Ribelin is President of the company and he can be contacted at (b) (6) [redacted] in Garland, Texas.

CONCLUSIONS, ACTION TAKEN OR REQUIRED

INFORMATION COPIES TO:
Mullins, Hammack, Zehner File

R6-123 (2-84)

K9- 0106

**RECORD OF COMMUNICATION**

☒ PHONE CALL ☐ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE
☐ OTHER (SPECIFY)

(Record of item checked above)

TO: (713) 920-5137
WARREN GAFFORD
ETHYL CORP

FROM: PAT HAMMACK

DATE 12/12/88

TIME 1405

SUBJECT
JENSEN DRIVE SITE.

SUMMARY OF COMMUNICATION
I RETURNED A CALL ~~TO~~ BY FROM MR. GAFFORD HE HAD QUESTIONS CONCERNING THE DEMAND LETTER WHICH I ANSWER IN GENERAL FOR HIM. HE SAID HE WOULD CALL BACK BY 1600 12/13/88 WITH HIS COMPANY'S RESPONSE TO THE DEMAND.

CONCLUSIONS, ACTION TAKEN OR REQUIRED

INFORMATION COPIES
TO: FILE, TYSON, PARKER

R6-123 (2-84)

K9 0307

**RECORD OF COMMUNICATION**

☒ PHONE CALL ☐ DISCUSSI ☐ FIELD TRIP ☐ CONFERENCE
☐ OTHER (SPECIFY)

(Record of item checked above)

TO: Jensen Dr Drum
Site - Houston

FROM: Marla Tyson

DATE 12/12/88

TIME 1:25p

SUBJECT
Verbal Demand for PRP participation of Removal

SUMMARY OF COMMUNICATION
I read the attached statement to Mr. C.B. Hunt of the Ethyl Corporatio in Pasadena, TX (b) (6) [redacted] Mr Hunt is the top corporate official (Res. Mgr) at this facility. After reading the statement, Mr Hunt wanted to know if he would be receiving a letter. I told him he would receive a letter from EPA confirming our conversation and should he have any further questions, he should contact Pat Hammack of ERB (b) (6) [redacted] for informat

~~CONCLUSIONS, ACTION TAKEN OR REQUIRED~~ I told him that because of the emergency situation, we were notifying potential participants/parties by phone. He claimed he did not understand all statements in the demand and I referred him to Hammack.

INFORMATION COPIES
TO: Pat Hammack, FILE

EPA Form 1300-6 (7-72) REPLACES EPA HQ FORM 5300-3 WHICH MAY BE USED UNTIL SUPPLY IS EXHAUSTED.

K9-0108

VERBAL DEMAND FOR I S AT THE JENSEN DRIVE DRL ,ITE

3116 JENSEN DRIVE, HOUSTON, TEXAS

I am _____ of the United States Environmental Protection Agency.

Are you_____. (I wish to speak to a responsible corporate official.) I have a message that I need to read to you, please stand by.

The EPA has identified a site located at 3116 Jensen Drive in Houston, Texas which has approximately 400 abandoned drums containing designated CERCLA hazardous substances. There are currently incompatible wastes (such as strong acids and strong bases) stored in close proximity to each other. Drums are deteriorating and have leaked on the ground in many cases. The company which operated here was a cooperage company, which reconditioned and resold drums. This company was known as May Cooperage Incorporated. The contents of many drums are not now known.

The EPA has determined that this site poses an imminent and substantial endangerment to the public health and/or environment. We propose that this hazard be relieved immediately by :

1. Determining the hazard categories of the wastes in drums (such as acids, bases, oxidizers, etc)

2. Overpack the leaking and deteriorating drums.

3. Store the drums onsite, segregated by compatibility class.

4. Sample the contents of all drums and analytically determine their contents. Arrange for disposal of the wastes in accordance with all applicable Federal, State, and Local laws.

5. Additionally, areas of contaminated soil will need to be identified, removed, and disposed of in accordance with all applicable Federal, State, and Local laws.

You (or your company) has been identified as a Potentially responsible party because:

at least one drum bears you (your company's) name;
or you are an owner or operator;
or you are a handler, treater, storer or other party identified in CERCLA as potentially responsible.

EPA wishes to extend to you (your company) the opportunity to participate in the removal process at the Jensen Drive site. You must notify the On Scene Coordinator, Pat Hammack at 214-655-2270 by 4:00 pm on December 13, 1988 to make arrangements if you choose to participate. If we do not hear from you by this deadline, the EPA will assume you do not wish to participate.

Any action taken will not relieve your company of any potential liability in connection with this site.

Do you understand these statements?

You may direct all your questions to OSC Pat Hammack.

TTENDEES:

CTION TAKEN: ENCLOSURE (S) Y___N_x_

e ATSDR-ROHR recommends the following action based on initial site data and nversations with EPA staff.

ccess to the site should be restricted due to the contaminants that have een identified on this site coupled with the possibility of fire and explo- ion elements at this site. (Residents residing adjacent to this site are bjected to numerous pathways of exposure from the site and bear an even reater burden in the event of a fire or explosion at this site.)

[illegible] notification to onsite workers of health hazards at this site and [illegible] protective equipment/clothing while working at the site.

[illegible] should be characterized and placed in a secured area so as not [illegible] human exposure and physical hazards.

comprehensive characterization of the site should be accomplished to deter- ine the extent of contaminants that exist at this site.

Karl Stukan

[illegible] Hicken DATE: 12/12/88

COPIED FROM POOR QUALITY ORIGINAL

TIME: [illegible]1.319

[illegible] HANSEN ST. DRUM SITE MTG..RECOMMENDATIONS 12/12/88

| RECORD OF COMMUNICATION | ☒ PHONE CALL ☐ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE ☐ OTHER (SPECIFY) (Record of item checked above) | |
|---|---|---|
| TO: PAT HAMMACK | FROM: WAYNE BETTGE MIL PARK CO. | DATE 12/12/88 TIME 1415 |

SUBJECT
JENSEN DRIVE SITE

SUMMARY OF COMMUNICATION

I WAS CALLED BY MR. BETTGE, WHO HAD GENERAL QUESTIONS ABOUT THE SITE. I TOLD HIM THE APPROPRIATE ANSWERS. HE SAID HE WOULD CALL ME BY 1600 12/13/88 WITH HIS COMPANY'S RESPONSE.

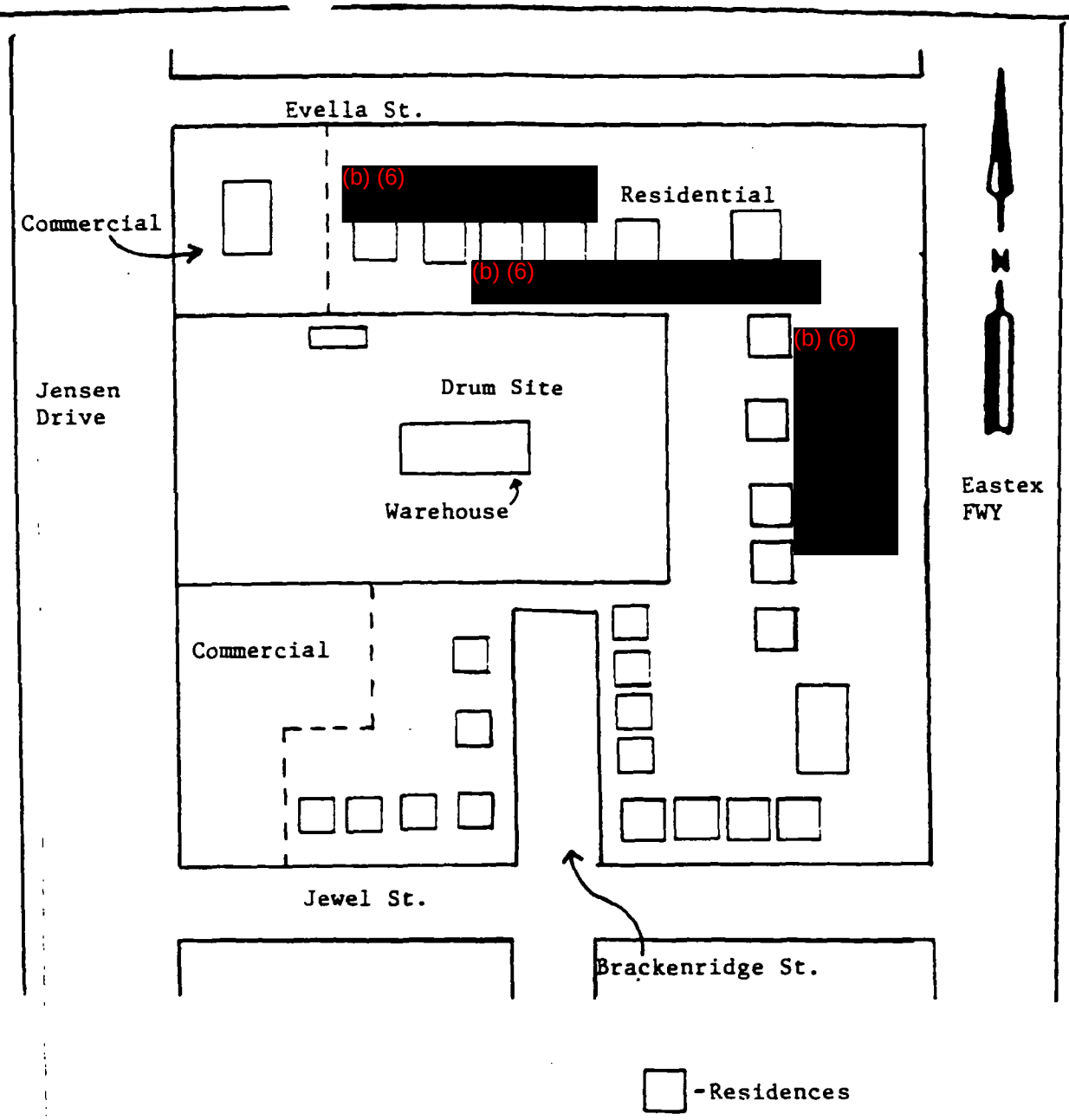
CONCLUSIONS, ACTION TAKEN OR REQUIRED

INFORMATION COPIES
TO: FILE TYSON, PARKER

R6-123 (2-84)

K9-

0112




Sketch of location
of Jensen Drive
drum site showing
proximity to residences

#s indicate street address

Not To Scale

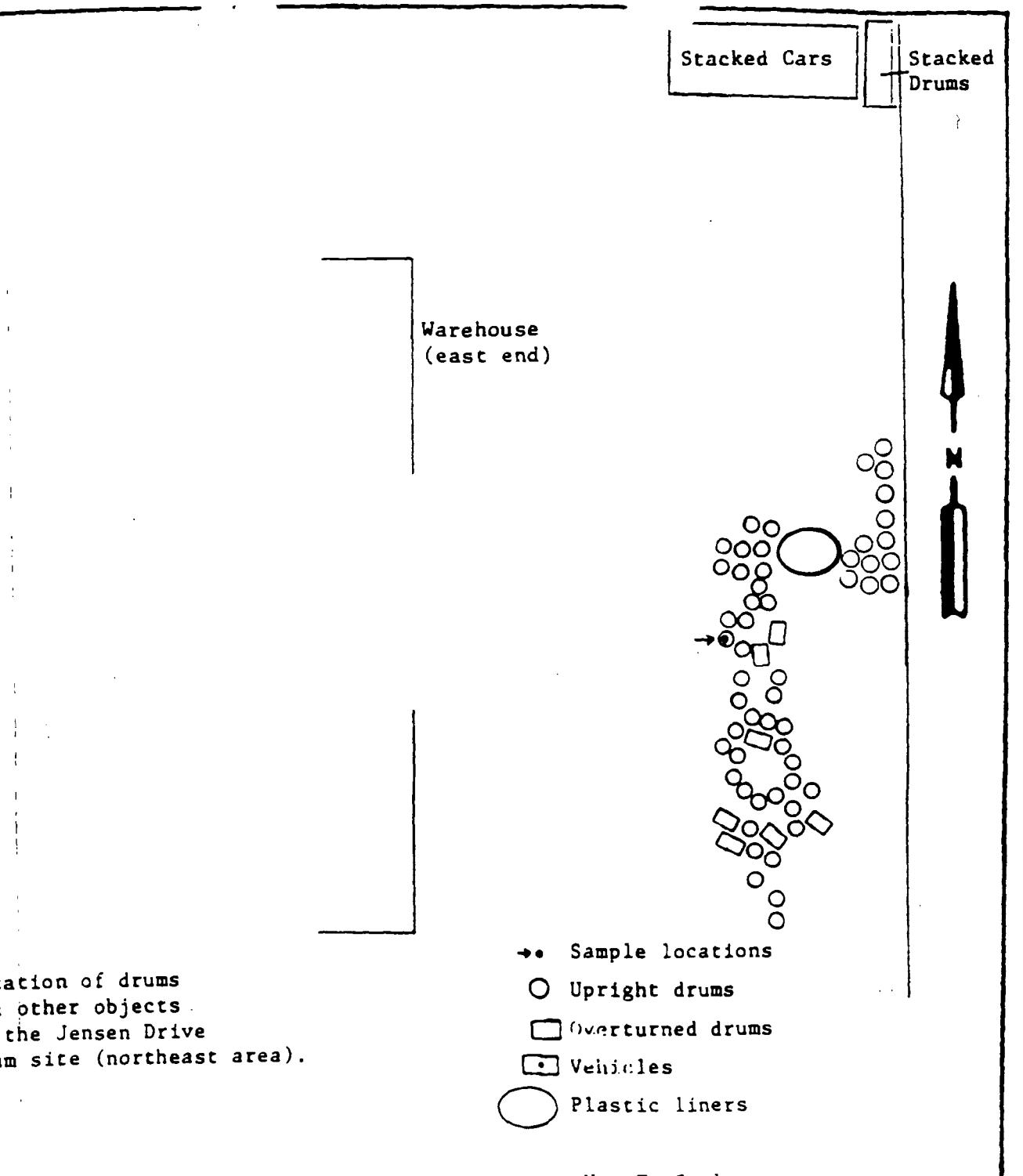
| | | | |
|---|---|---|---|
| | Ecology and Environment, Inc. Technical Assistance Team Region VI | Case No: N/A | TDD No: T06-8810-28 |
| | | PAN: TTX 0829 SAB | Date: ~~10-18-88~~ 12-12-88 |
| | | Originator: Michael C. Taormina | |

These documents were used to represent the change in the site which indicated the pressing need for an immediate action.

K9-

Pat Hammack, OSC
12/12/88

0113

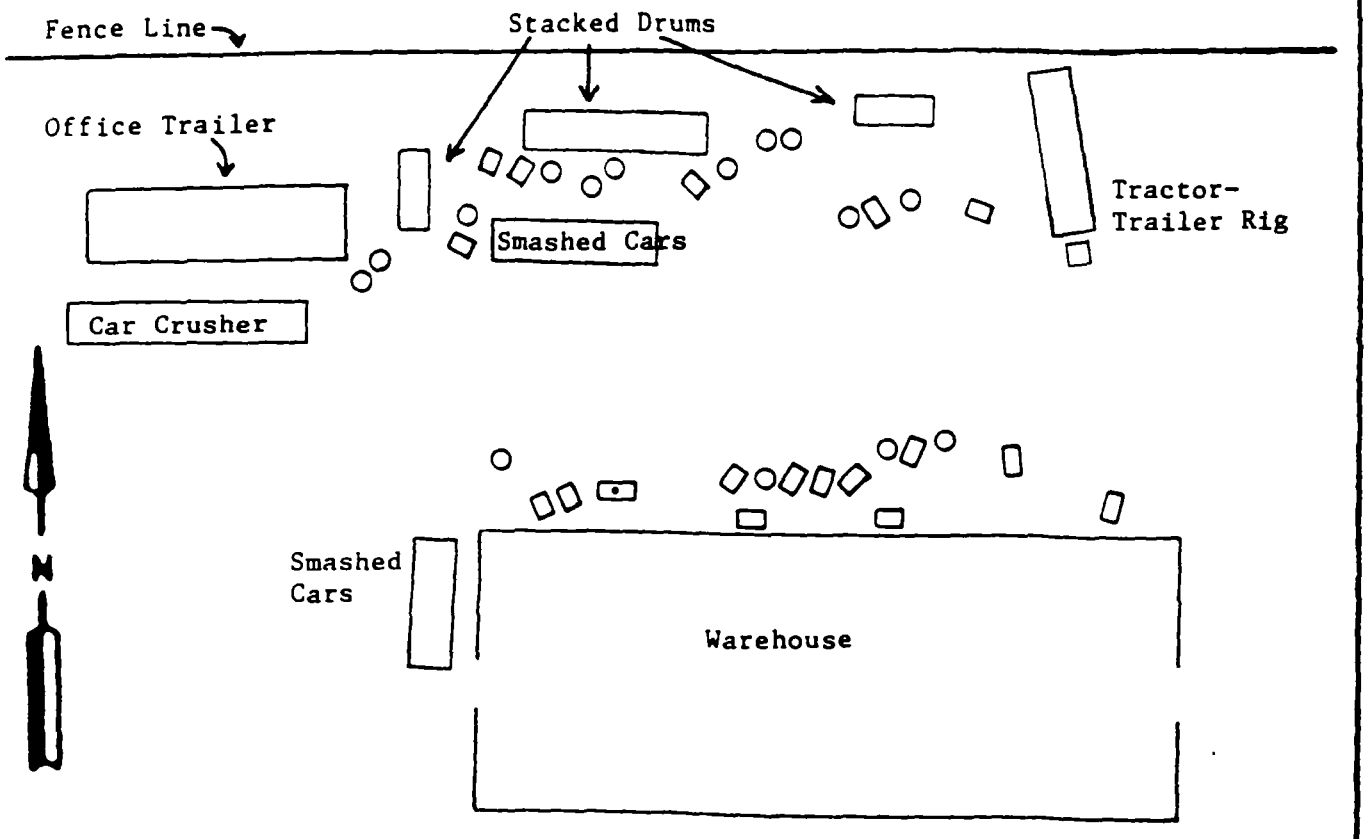



Location of drums and other objects at the Jensen Drive drum site (northeast area).

| | | | |
|---|---|---|---|
| | Ecology and Environment, Inc. Technical Assistance Team Region VI | Case No: | TDD No: T06-8810-28 |
| | | PAN: TTX 0829 SAB | Date: 12/12/88 ~~10-18-88~~ PA |
| | | Originator: Michael C. Taormina | |



K9-




Location of drums and other objects at the Jensen Drive drum site (north side of warehouse).

○ Upright drums

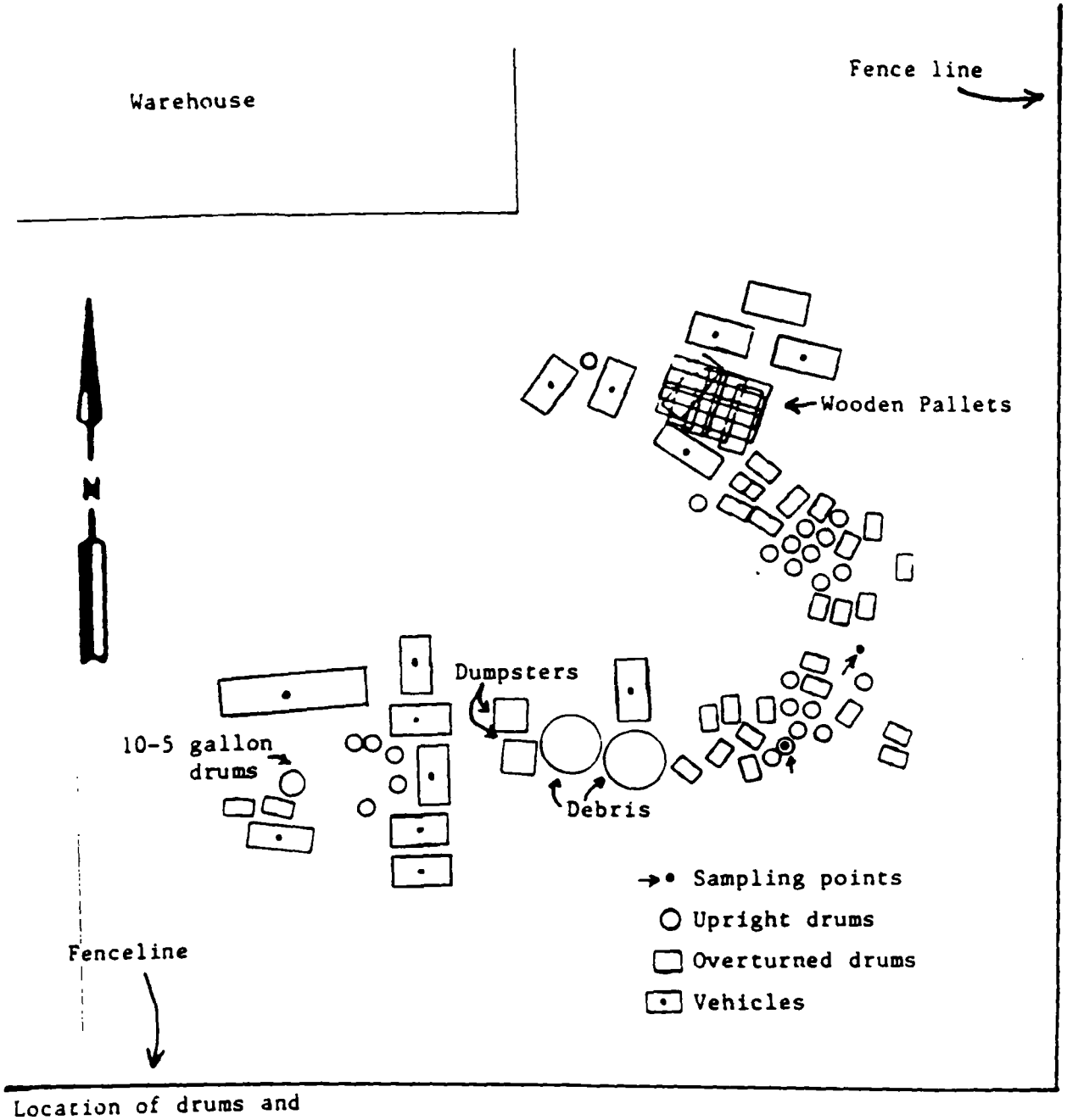
□ Overturned drums

▭ Vehicles

Not To Scale

| | | | |
|---|---|---|---|
| | Ecology and Environment, Inc. Technical Assistance Team Region VI | Case No: | TDD No: T06-8810-28 |
| | | PAN: TTX 0829 SAB | Date: 12/12/88 ~~10-18-88~~ FA |
| | | Originator: Michael C. Taormina | |

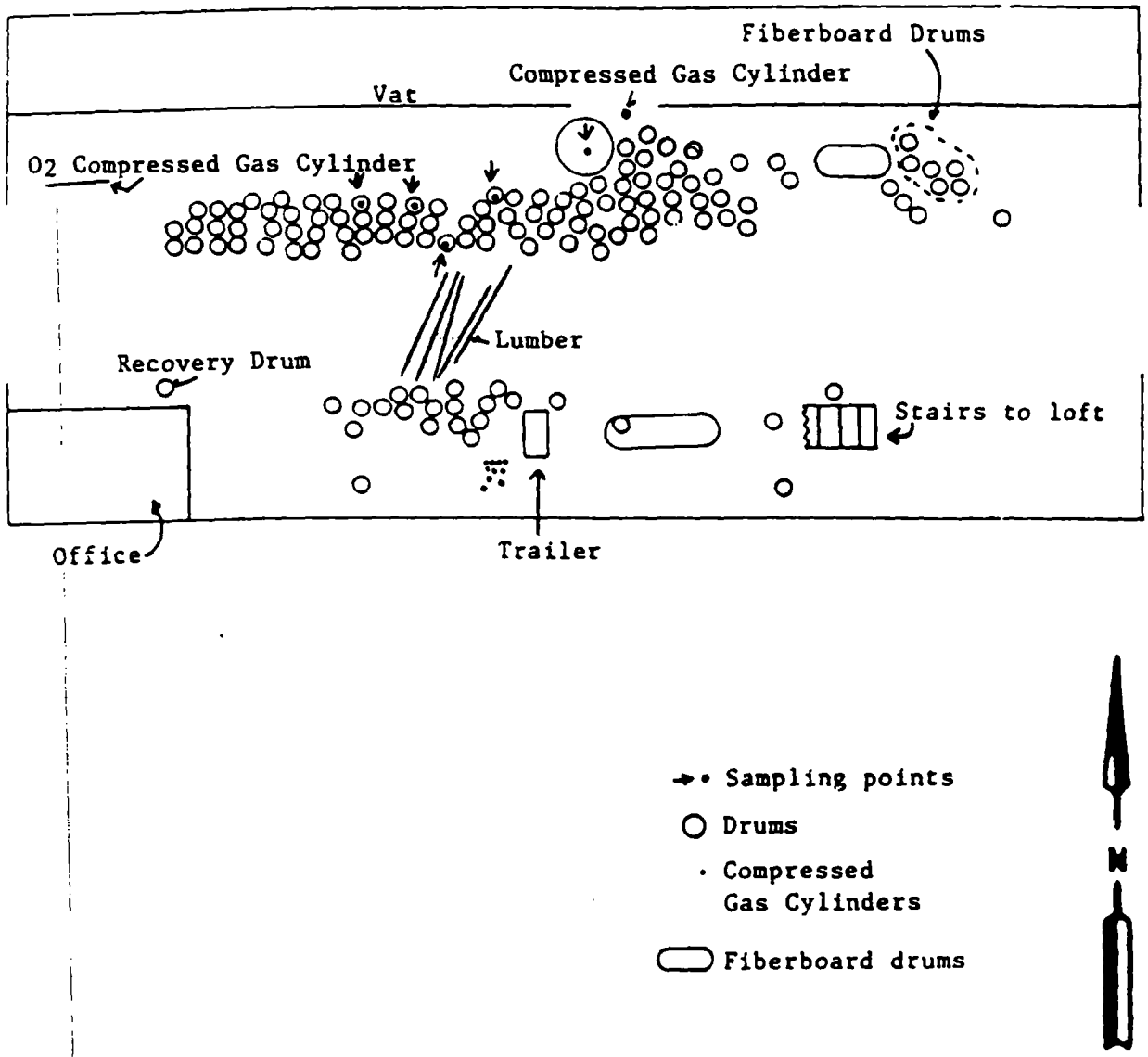
KG-




Location of drums and other objects at the Jensen Drive drum site (southeast corner).

Not To Scale

| | | | |
|---|---|---|---|
| | Ecology and Environment, Inc. Technical Assistance Team Region VI | Case No: | TDD No: T06-8810-28 |
| | | PAN: TTX 0829 SAB | Date: ~~10-18-88~~ 12/12/88 |
| | | Originator: Michael C. Taormina | |




Sketch of warehouse
at Jensen Drive drum site

Not To Scale

| | | | |
|---|---|---|---|
| | Ecology and Environment, Inc. Technical Assistance Team Region VI | Case No: | TDD No: T06-8810-28 |
| | | PAN: TTX 0829 SAB | Date: ~~10-18-88~~ 12/12/88 |
| | | Originator: Michael C. Taormina | |

| RECORD OF COMMUNICATION | ☒ PHONE CALL ☐ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE ☐ OTHER (SPECIFY) (Record of item checked above) | |
|---|---|---|
| TO: MR. T.L. FRAZELL V. P. (606) 329-3333 ASHLAND OIL CO | FROM: PAT HAMMACK | DATE 12/12/88 TIME 1345 |

SUBJECT
JENSEN DRIVE SITE

SUMMARY OF COMMUNICATION
MR. FRAZELL WAS NOT IN. I SPOKE WITH MR. JEFF RAINES, ASSISTANT GENERAL COUNSEL FOR ASHLAND OIL. I READ MR. RAINES THE DEMAND LETTER AND HE SAID HE WOULD HAVE SOMEONE CONTACT ME PRIOR TO 4:00 pm 12/13/88.

CONCLUSIONS, ACTION TAKEN OR REQUIRED

INFORMATION COPIES
TO: File, TYSON, Parker

R6-123 (2-84) KF

| RECORD OF COMMUNICATION | ☒ PHONE CALL ☐ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE ☐ OTHER (SPECIFY) (Record of item checked above) | |
|---|---|---|
| TO: TED KAZANTZIS 713 466 1187 HINDS POTTERY | FROM: PAT HAMMACK | DATE 12/12/88 TIME 1600 |

SUBJECT

JENSEN DRUM SITE

SUMMARY OF COMMUNICATION

MR. KAZANTZIS SAID HIS COMPANY DID NOT THINK THEY HAD RESPONSIBILITY AT THE SITE AND DECLINED TO PARTICIPATE.

CONCLUSIONS, ACTION TAKEN OR REQUIRED

INFORMATION COPIES TO: FILE, TYSON, PARKER

R6-123 (2-84)

K9-

0119

| RECORD OF COMMUNICATION | ☒ PHONE CALL ☐ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE ☐ OTHER (SPECIFY) (Record of item checked above) | |
|---|---|---|
| TO: CHARLES HINDS PRESIDENT HINDS POTTERY, INC. | FROM: PAT HAMMACK | DATE 12/12/88 TIME |

SUBJECT
JENSEN DRIVE SCRAP

SUMMARY OF COMMUNICATION

I SPOKE WITH MR. HINDS AND EXPLAINED THE DEMAND LETTER. HE SAID HE WAS NO LONGER RESPONSIBLE FOR THE COMPANY AND SAID THAT MR. TED KAZANTZIS IS CURRENTLY MORE RESPONSIBLE. I SPOKE TO MR. KAZANTZIS AND EXPLAINED THE LETTER. HE SAID HE WOULD CALL ME BACK.

CONCLUSIONS, ACTION TAKEN OR REQUIRED

INFORMATION COPIES
TO: FILE, TYSON, PARKER

R6-123 (2-84) K9 0120

| RECORD OF COMMUNICATION | ☒ PHONE CALL ☐ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE ☐ OTHER (SPECIFY) (Record of item checked above) | |
|---|---|---|
| TO: PAT HAMMACK | FROM: WARREN GAFFORD ETHYL CORP | DATE 12/12/88 TIME 1605 |

SUBJECT

JENSEN DRUM SITE

SUMMARY OF COMMUNICATION

MR. GAFFORD CALLED AND SAID THAT HIS COMPANY HAD NO KNOWLEDGE OF MAY COOPERATOR AND DECLINED THE OFFER TO HELP.

CONCLUSIONS, ACTION TAKEN OR REQUIRED

INFORMATION COPIES TO: FILE, TYSON, PARKER

R6-123 (2-84)

K9-

**RECORD OF COMMUNICATION**

☑ PHONE CALL ☐ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE
☐ OTHER (SPECIFY)

(Record of item checked above)

TO: R J. GRAY
Lufkin, Texas
(409) 632-2179

FROM: STEVEN L. PARKER
6C-H

DATE: 12 DEC 88

TIME:

SUBJECT: JENSEN ST DRUM SITE / NOTICE OF REMOVAL

SUMMARY OF COMMUNICATION

NO ANSWER — 1:30 pm

BUSY SIGNAL — 2:30 pm

NO ANSWER — 2:50 pm

NO ANSWER — 3:25 pm

NO ANSWER — 4:15 pm

CONCLUSIONS, ACTION TAKEN OR REQUIRED

DISTRIBUTION COPIES

TO:

-123 (2-84)

K9-

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
1445 ROSS AVENUE, SUITE 1200
DALLAS, TEXAS 75202

December 12, 1988

MEMORANDUM

SUBJECT: ACTION MEMORANDUM
Request for Removal Action at the Jensen Drive Drum Site,
Houston, Harris County, Texas
Cerclis #TXD987966900
Site ID# K9
Category of Removal: Classic Emergency

FROM: Patrick L. Hammack
On-Scene Coordinator
Emergency Response/Site Investigation Section (6E-EI)

TO: Robert E. Layton, Jr.
Regional Administrator (6A)

THRU: for Russell F. Rhoades Charles O. Dayde
Director
Environmental Services Division (6E)

PURPOSE:

This memorandum requests approval for a Removal Action pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA) at the Jensen Drive Drum Site. The proposed action involves the stabilization, categorization and temporary relocation on site of approximately two hundred drums containing various unknown solvents, acids, corrosives and known CERCLA designated hazardous substances.

This action meets the criteria for initiating a removal action under Section 300.65 of the National Contingency Plan (NCP) and is anticipated to require less than twelve months and under $2 million for completion.

BACKGROUND:

National Significance:

This site is not of national significance.

Site Description:

The Jensen Drive Drum site is located at 3116 Jensen Drive, two blocks south of Collingsworth Street in northeast Houston, Harris County, Texas. It is in a light industrial and residential area. Inhabited houses are immediately adjacent to the site. Three churches and a school are within a one-half mile radius.

The site occupies a rectangular lot measuring approximately 400 feet by 150 feet (Attachment 1). There is a warehouse in the center of the site with two open bay doors facing east and west. The site is surrounded by a five foot chain link fence. The side facing Jensen Drive is secured only by a bar gate three feet high and ten feet wide. The gate is chained and pad locked. A key is kept across the street at Workman and Doggett Auto Parts.

There are a number of vehicles on the site. These vehicles include cars, trucks and trailers. Charles Lee of Workman and Doggett Auto Parts has informed the EPA Technical Assistance Team (TAT) contractors that the vehicles belong to the Auto Parts store.

Approximately 400 drums are present on the site. Many of the drums are empty. Measurements taken of the drum contents indicated that approximately 180 to 200 drums contain materials. The drums are in varying stages of deterioration and some are bulging. Some drum contents indicated material present with pH ranging from 0 to 13. Samples were taken from ten locations (soils and drums) and listed CERCLA designated hazardous substances were identified in all samples. Attachment 2 lists materials identified at the site.

Vegetation on site consists of weeds and grass with few trees. The perimeter of the site is overgrown. Various areas show stressed vegetation. There are areas of chemical stained soil evident throughout the site. Two large areas of soil discoloration are present. One is on the northeast corner of the site at the fence line. The other, at the southeast corner of the site, is also adjacent to the fence line. Enclosed photographs show the proximity of homes to the site fence line. The land in the area is generally flat with no obvious run-off pathways. Buffalo Bayou is less than one mile south of the site.

The warehouse contains 91 steel drums, 20 fiber drums, 10 compressed gas cylinders and a 500 gallon polypropylene vat that is about half full. There is a small locked office in the southwest corner of the warehouse. Ten five gallon cans of unknown material are located in this office. There is a loft along the interior south side of the warehouse where lumber is stored.

Ambient air monitoring was conducted with a real time instrument (HNU photoionization detector) to determine organic vapor concentrations. HNU readings well above background were observed in various locations throughout the site. Outside of the warehouse several readings in the range of 3-5 ppm were measured. Inside the warehouse, readings up to 110 ppm were measured.

Incident Characteristics:

Historical accounts on this site are limited. However, the site was known to be the location of the May Cooperage Drum Reclamation Company owned by Mr. Fred Winston. A complaint by an anonymous caller prompted the Texas Water Commission (TWC) and the City of Houston to file complaints against Mr. Winston. Mr. Winston has subsequently abandoned the drum reclamation business at this location. Mr. Winston originally moved to the Jensen Drive location from a similar site on Davis Street. The Davis Street site is currently under EPA evaluation for removal action.

Quantity and Types of Substances Present:

TAT personnel collected samples including two soils, six drums and the 500 gallon vat. Results of the analyses are summarized in Tables 1-3. There are a number of inorganic compounds on site which can be considered toxic. Organic compounds listed as hazardous substances in 40 CFR 302.4 were considered of interest and reported with the pertinent toxicological information. The list includes a number of compounds considered to be carcinogens.

State and Local Authorities Roles:

The TWC and the City of Houston filed complaints against Mr. Winston about his operation of May Cooperage Company. The TWC requested the EPA investigate the site for imminent and substantial endangerment to the public. The site does not meet the requirements for a state funded removal because it does not appear to impact waters of the State of Texas.

Federal Action To Date:

In September, 1988, the EPA Emergency Response Branch conducted an initial site assessment to evaluate the potential threat to the public health or environment. Subsequent to this assessment, measures were taken to propose a routine time critical removal action. During normal preparations for this activity, a site visit was conducted on December 9, 1988. During that visit, it was noted that the situation had changed considerably. Personnel, presumably from Workman and Doggett Auto Parts, had moved many of the drums into a much closer proximity to the residences on the east side of the site. The movement of these previously segregated drums has resulted in storage of incompatible wastes in close proximity to one another and significantly raised the potential for fire and explosion. The movement may have exacerbated the drum leakage, and

enhanced the direct contact threat. If more drum movement occurs, mixture of the incompatible materials is likely, and fire or explosion will be the result.

THREAT TO THE PUBLIC HEALTH, WELFARE OR THE ENVIRONMENT

A. Three obvious threats to the public health are present at the Jensen Drive site. The high concentrations of metals pose a direct contact threat. These metals may be toxic if inhaled or ingested. The metals may be transported offsite via the airborne or storm water route, and may affect the surrounding residents. Numerous toxic organic compounds are located on site and represent a threat of fire and explosion, direct contact, as well as inhalation and ingestion threat. Strong acids and bases have been found on the site. Direct contact with these would result in burns and tissue damage. All materials spilled on the soil have the potential for offsite migration. Drum headspace monitoring indicates the presence of volatile organic compounds which may be toxic, explosive or flammable, and/or carcinogenic. Numerous drums are in varying stages of deterioration, and many are leaking unknown compounds. The movement of the deteriorating drums adds to the overall threat at the site.

B. Threats to the Environment

A release of any of the liquid wastes would contaminate the surrounding soil. An air release from a fire would result in a much greater extent of contamination of the surrounding air, water, soil, and vegetation. Air releases from a fire may prompt local evacuation of citizens.

ENFORCEMENT

See Attachment III

PROPOSED ACTIONS AND COSTS:

A. Proposed Actions

The proposed action involves sampling approximately two hundred drums, conducting a hazard categorization of the drum contents to aid in their temporary segregation and in future disposal, relocating and securing the drums in the building on site to prevent further uncontrolled movement and vandalism.

Another removal action will be proposed for the disposal of the hazardous substances after this action is completed if enforcement efforts to secure PRP participation are unsuccessful. The proposed action is expected to require approximately ten days of on site activity. This response is not being initiated under the OSC's $50,000 authority. This action is not expected to require a twelve-month or a $2 million exemption.

SUMMARY OF COSTS:

| | |
|---|---|
| ERCS Cleanup Contractor | $300,000 |
| Cleanup Contractor Contingency (15%) | 45,000 |
| Cleanup Contractor Total | 345,000 |
| TAT Contractor Costs | 32,000 |
| Extramural Subtotal | 377,000 |
| 20% Project Contingency | 75,000 |
| Total Extramural Cost | 452,000 |
| EPA Regional Direct | 12,000 |
| EPA Headquarters Direct (10% of Regional Direct) | 1,200 |
| EPA Indirect | 24,000 |
| EPA Total | 37,200 |
| TOTAL PROJECT CEILING | $489,200 |

B. Alternative Actions:

With the current situation, no radically different alternative for action is available. Variations on the current proposal include conducting a removal complete with disposal. However, this would require providing less opportunity for the PRPs to participate, as well as less certainty in the total costs.

EXPECTED CHANGE IN THE SITUATION SHOULD NO ACTION BE TAKEN:

Without further attention, the drums and other containers will continue to deteriorate. If this is allowed, the health and welfare of the area residents will be endangered. If the materials are inadvertently mixed with one another, a fire and explosion danger to the local citizens may result. In the event of a fire, toxic fumes would likely be emitted, endangering the local citizens. The more time these containers are allowed to deteriorate, the greater the probability for the liberation and release of chemical substances.

IMPORTANT POLICY ISSUES:

Not applicable.

RECOMMENDATION:

Because conditions at the site meet the NCP section 30.65 (b) (2) criteria for a removal, I recommend your approval of the proposed removal action. The estimated total project costs are $489,200 of which $345,000 are for extramural cleanup contractor costs. You may indicate your approval or disapproval by signing below.

APPROVE: J. D. Stricker DATE: 12-12-88

DISAPPROVE: _____ DATE: _____