K9-0019

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

CERCLIS#: TXD987966900

SITE ASSESSMENT REPORT

(Filed in EM Vol #2)

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

90072601

recycled paper

K9-0010

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

REC'D
NOV 2 1988
E & E - HOUSTON

October 17, 1988

MEMORANDUM

SUBJECT: Notice of Intent to Dispose of Samples

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

TO: Charles Gazda, Chief, Emergency Response Branch; 6E-E

The Houston Laboratory is required to dispose of all hazardous wastes we generate in a manner consistent with RCRA regulations. This includes all samples received for analysis provided we find them to contain contaminants which classify them as RCRA hazardous wastes.

I have included this memorandum in the final analytical report to serve as notice to the program that we have completed all analysis. If we have any of the original sample remaining after analysis is complete we will dispose of it within 90 days. Please note that even though original sample may be left over, it does not mean that a reanalysis of the sample may be requested since the sample has most likely exceeded its holding time and any subsequent analysis may not be valid.

If you have a need to hold these samples in custody longer than 90 days, please sign below and return this memorandum to me within the next 30 days. Also, state briefly your need to hold these samples in custody.

Thank you for your cooperation in this request.

Jensen Street Drums (8TFAKC46)

Facility Name

Program Manager Date

Jensen Rd. Drums
TXD 981761722

K9-0009

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

MEMORANDUM

DATE: October 17, 1988

SUBJECT: Laboratory Results for Jensen St. Drums (8TFAKC46)

FROM: Diana Ayers, Chief, Houston Branch; 6E-H Dave L Payne for

TO: Charles Gazda, Chief, Emergency Response Branch; 6E-E

ATT: Pat Hamick: 6E-EF

Attached are the analytical results for the subject site. Ten samples were received on September 1, 1988 for analysis of ABN and metals(HSL).

This is a final report.

Attachments

K9-0008

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

October 12, 1988

MEMORANDUM

SUBJECT: Laboratory results for Jensen Street Drum.

FROM: for R. Ray Clark
M. Kendall Young
Chief
Inorganic Section

TO: Diana G. Ayers
Chief
Houston Branch

Attached are laboratory results for the subject site. Ten (10) samples were received on September 2, 1988 to analyzed for metals.

The laboratory numbers assigned were 8TFAKC4601 through 8TFAKC4610.

This is a final report.

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

K9-0007

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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Date: 10/14/88

Appendix 1

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
Date Completed: / /
Comment:
Your Initials: RLR

Attachment 1

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC46-01 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=3300
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/1)	COMPOUND NAME
384		4,280	UNKNOWN
635		356,000	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 #:	8TFAKC46-01	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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Date: 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
Date Completed: / /
Comment:
Your Initials: RLR

Attachment 2

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC46-02 DATE REPORTED: 9/30/80

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
2-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

6ES-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	111762	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	1863634	515	BENZOIC ACID,ammonium salt
568	99047	125	3-METHYL,BENZOIC ACID
582		500	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 #:	8TFAKC46-02	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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Date: 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
Date Completed: / /
Comment:
Your Initials: RLR

Attachment 3

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC46-03 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= 28000
bis(2-Chloroethyl) Ether	nd	dl= 28000	2,4-Dinitrophenol	nd	dl= 42000
2-Chlorophenol	nd	dl= 56000	4-Nitrophenol	nd	dl=112000
1,3-Dichlorobenzene	nd	dl= 28000	Dibenzofuran	nd	dl= 28000
1,4-Dichlorobenzene	nd	dl= 28000	2,4-Dinitrotoluene	nd	dl= 84000
Benzyl Alcohol	nd	dl= 56000	2,6-Dinitrotoluene	nd	dl= 84000
1,2-Dichlorobenzene	nd	dl= 28000	Diethylphthalate	nd	dl= 28000
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.			

* 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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Date: 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
Date Completed: / /
Comment:
Your Initials: RLR

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/KG
Phenol	nd dl= 68000	Acenaphthene	nd dl= 34000
Bis(2-Chloroethyl) Ether	nd dl= 34000	2,4-Dinitrophenol	nd dl=510000
2-Chlorophenol	nd dl= 68000	4-Nitrophenol	nd dl=136000
1,3-Dichlorobenzene	nd dl= 34000	Dibenzofuran	nd dl= 34000
1,4-Dichlorobenzene	nd dl= 34000	2,4-Dinitrotoluene	nd dl=102000
Benzyl Alcohol	nd dl= 68000	2,6-Dinitrotoluene	nd dl=102000
1,2-Dichlorobenzene	nd dl= 34000	Diethylphthalate	nd dl= 34000
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

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.			

* 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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Date: 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
Date Completed: / /
Comment:
Your Initials: RLR

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.			

* 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 #:	8TFAKC46-05	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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Date: 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
Date Completed: / /
Comment:
Your Initials: RLR

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

6ES-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	198862	23	1-PHENYL-ETHANONE
364	195874	43	2,5-DIMETHYL-PHENOL
398		126	UNKNOWN
307	190006	87	2-ETHYL-PHENOL
549		37	UNKNOWN
1058		50	UNKNOWN
1382		27	UNKNOWN
1504		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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Date: 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
Date Completed: / /
Comment:
Your Initials: RLR

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= 10000
bis(2-Chloroethyl) Ether	nd dl=10000	2,4-Dinitrophenol	nd dl=150000
2-Chlorophenol	nd dl=20000	4-Nitrophenol	nd dl= 40000
1,3-Dichlorobenzene	nd dl=10000	Dibenzofuran	nd dl= 10000
1,4-Dichlorobenzene	nd dl=10000	2,4-Dinitrotoluene	nd dl= 30000
Benzyl Alcohol	nd dl=20000	2,6-Dinitrotoluene	nd dl= 30000
1,2-Dichlorobenzene	nd dl=10000	Diethylphthalate	nd dl= 10000
2-Methylphenol	nd dl=30000	4-Chlorophenylphenyl Ether	nd dl= 40000
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

* 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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Date: 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
Date Completed: / /
Comment:
Your Initials: RLR

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= 300
bis(2-Chloroethyl) Ether	nd dl= 300	2,4-Dinitrophenol	nd dl=4500
2-Chlorophenol	nd dl= 600	4-Nitrophenol	nd dl=1200
1,3-Dichlorobenzene	nd dl= 300	Dibenzofuran	nd dl= 300
1,4-Dichlorobenzene	nd dl= 300	2,4-Dinitrotoluene	nd dl= 900
Benzyl Alcohol	nd dl= 600	2,6-Dinitrotoluene	nd dl= 900
1,2-Dichlorobenzene	nd dl= 300	Diethylphthalate	nd dl= 300
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
369		900	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

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Date: 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
Date Completed: / /
Comment:
Your 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= 300
bis(2-Chloroethyl) Ether	nd dl= 300	2,4-Dinitrophenol	nd dl=4500
2-Chlorophenol	nd dl= 600	4-Nitrophenol	nd dl=1200
1,3-Dichlorobenzene	nd dl= 300	Dibenzofuran	nd dl= 300
1,4-Dichlorobenzene	nd dl= 300	2,4-Dinitrotoluene	nd dl= 900
Benzyl Alcohol	nd dl= 600	2,6-Dinitrotoluene	nd dl= 900
1,2-Dichlorobenzene	nd dl= 300	Diethylphthalate	nd dl= 300
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	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

6ES-HL SAMPLE NO.: 8TFAKC46-09 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
39		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

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Date: 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: / /
Comment:
Your 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
Isophorone	nd dl=20	Hexachlorobenzene	nd dl= 10
2-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	46	10	UG/L
VANADIUM	ND	60	UG/L
ANTIMONY	ND	120	UG/L
SODIUM	3140000	1000	UG/L
POTASSIUM	16600000	2000	UG/L
CALCIUM	24000	300	UG/L
MAGNESIUM	1940	300	UG/L

* : UNABLE TO ANALYZE DUE TO STRONG INTERFERENCE

ND: NOT DETECTED