



WASTE MATERIAL DATA SHEET

ONE YEAR RECERTIFICATION

No. _____
Regional Office _____

A GENERAL INFORMATION

ENSICO CLIENT

Invoice Address ☐ Cert Address ☒ N/A ☐

SHIPPING FACILITY

Invoice Address ☒ Cert Address ☐ N/A ☐

Contact _____
Customer Name W.H. COOPER
Address _____
City _____
State _____ Zip _____
Phone # _____
USEPA ID# _____

Contact _____
Facility Name GINGER BUSBY
Address _____
City _____
State _____ Zip _____
Phone # _____
USEPA ID# _____

B WASTE DESCRIPTION

NAME OF WASTE _____
PROCESS GENERATING WASTE waste treatment unit

C GENERAL CHARACTERISTICS (at 70° F unless otherwise specified)

COLOR Black ☐ LIQUID 100 % PHASES
ODOR yes ☐ SOLID _____ % ☒ SINGLE LAYER
☐ NONE ☒ STRONG ☐ SLUDGE _____ % ☐ DOUBLE LAYER
☐ MILD ☐ POWDER _____ % ☐ MULTI-LAYER

D NFPA HAZARD CODE

Enclose copies of safety data sheets applicable to waste. Include data constituents of waste and materials used in process.

FLAMMABLE
HEALTH 2
REACTIVE 0

E SPECIAL HANDLING INSTRUCTIONS If special handling techniques are required, specify:

Use OSHA approved equipment

F RCRA INFORMATION

Is this a USEPA hazardous waste? ☒
Please give USEPA hazardous waste codes.
Do not include state waste codes in this section.

F024 D001 D018 D019
D021 D022 D027 D032
D033 D039 D040

Describe nature of reactivity if D003 waste:

G SHIPPING INFORMATION

DOT hazardous material ☒

PROPER SHIPPING NAME Waste Flammable Liquid, n.o.s., R6
(contains ethylene dichloride, Tetrachloroethene)

HAZARD CLASS Flammable ID # NA 1993 R/Q 11b
ANTICIPATED SHIPPING VOLUME _____ GAL. _____ YDS. 25,000 LBS.

_____ DRUM(S), BULK ☒ TANK TRUCK ☒ RAIL ☒

☐ ONE TIME ☐ WK ☐ MO ☒ YR OTHER _____

Type and size of container: Tank Truck

WT PER CONTAINER: _____ WT PER GALLON: 141 lbs.

H 1 SPECIFIC GRAVITY

☐ <0.8 ☒ 1.4-1.7
☐ 0.8-1.0 ☐ >1.7
☐ 1.0-1.2 ☐ 1.44 actual
☐ 1.2-1.4

2 VISCOSITY

(centipoise)

☒ 1-100 ☐ 37 actual
☐ 100-1000
☐ 1000-10,000
☐ >10,000

3 ASH (%WT)

☐ <0.1
☐ 0.1-1.0
☐ 1.0-5.0
☒ 5.0-20 ☐ actual
☐ >20

4 TOTAL SUSPENDED SOLIDS (%WT)

☐ <0.5 ☐ >20
☐ 0.5-2.0
☐ 2.0-5.0 actual
☐ 5.0-20

5 pH

☐ <2 ☐ >20
☒ 2-6 ☐ 4.0 actual
☐ 6-8
☐ 8-10
☐ 10-12.5 constituent

6 BTU's 1000/lb.

☒ <1 ☐ 12-16
☒ 1-4 ☐ >16
☐ 4-6 actual
☐ 6-8
☐ 8-12

7 FLASHPOINT (closed cup)

☒ <100° F ☐ >200° F
☐ 100-140° F
☐ 140-200° F actual

8 SULFUR (%WT)

☒ <0.5 ☐ >5
☐ 0.5-2.0 UNK actual
☐ 2-5

9 HALOGENS (%)

Chlorine 70 Fluorine 0
Bromine 0 Iodine 0

12 ARE METAL OBJECTS

PRESENT IN THE WASTE?

Y ☐ N ☒

IF YES, DESCRIBE IN SECTION I

11 HAZARDOUS CHARACTERISTICS AND OTHER COMPONENTS

Reactivity: ☒ None ☐ Explosive ☐ Pyrophoric ☐ Shock Sensitive ☐ Fuming/Smoking Waste
☐ Water Reactive ☐ Air Reactive ☐ Radioactive ☐ Biological ☐ Asbestos

Cyanides UNK (ppm) PCB's < 50 (ppm) ☐ Acutely Hazardous Waste

Sulfides UNK (ppm) Phenolics UNK (ppm) ☐ Dioxins & Furans

I CHEMICAL COMPOSITION (If actual percentages are not known use ranges)

Total should be at least 100%

Solids (carbon	Actual	Range	chlorobenzene	Actual	Range
FeCl ₃	13 %	10 - 20 %	1,4 DCB	0.6 %	0 - 1 %
Chlorinated			HCB	1.1 %	1 - 5 %
Hydrocarbons,			HCBD	5.2 %	5 - 10 %
(mixture of C ₁ -			EDC	3.4 %	1 - 10 %
87 %	80 - 90 %		Trichlor	0.3 %	1 - 10 %
Benzene	0.3 %	0 - 1 %	PerChlor	8.0 %	10 - 20 %
Carbon Tetra-			1,1,2 Tri	3.4 %	10 - 20 %
chloride	0.1 %	0 - 1 %	TCE's	4.0 %	10 - 2 %
chloroform	0.11 %	0 - 1 %	1,1-DCE	0.6 %	0 - 1 %

10 METAL TOTAL (PPM) TCPL (mg/L)

Antimony (Sb) UNK
Arsenic (As) 0.1
Barium (Ba) 27
Beryllium (Be) UNK
Cadmium (Cd) 0.5
Chromium (Cr) 2.0
Lead (Pb) 10.0
Mercury (Hg) 0.02
Selenium (Se) 0.1
Silver (Ag) 1.0
Thallium (Th) 5.0
Other (Specify) Zn 11
Cu - 8.9

All Blanks Must Be Completed
If metal(s) is/are not present, indicate "None"

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE AND THAT ALL KNOWN OR SUSPECTED HAZARDS, INCLUDING THE PRESENCE OF METAL OBJECTS AS A CONSTITUENT OF THE WASTE, HAVE BEEN DISCLOSED.

SL 021465

ENSICO USE ONLY

W.H. COOPER ENV. CRTL. SPEC. 11-20-91

From: American Laboratories and
Research Services, Inc.
P.O. Box 15609
Hattiesburg, MS 39402-5609
601-264-9320

Date: February 6, 1991

To: Mr. Gerald L. Perry
PPG Industries
Chemicals Division
P. O. Box 1000
Lake Charles, LA 70602

The following analytical results have been obtained for the
indicated sample which was submitted to this laboratory:

Sample I.D. AA07095

Sample location: 1002GP LabLog 1520 Classifier Solids
collected by: GPP Collection date: 01/31/91 Time
Laboratory submittal date: 01/31/91 Time: 15:57
Received by: RLH Validated by: RLH

Parameter: TCLP Extraction
Method reference: SW846-1311
Result: done
Date started: 02/01/91
Time started: 16:00

Date finished: 02/02/91
Analyst: BLM

Parameter: Mercury, TCLP
Method reference: SW846-7470
Result: .009 mg/L
Date started: 02/05/91
Time started: 08:30

MDL or sensitivity: .0
Date finished: 02/05/91
Analyst: BLM

Parameter: Mercury, Total
Method reference: SW846-7470
Result: 1.25 mg/L
Date started: 02/05/91
Time started: 08:30

MDL or sensitivity: .0
Date finished: 02/05/91
Analyst: BLM

SL 021466

501-863-7173



American Oil Road
P.O. Box 1957
E. Dardo Arkansas 71731-1957

JANUARY 17, 1991

PPG INDUSTRIES, INC.
ATTN: GERALD CLARK
P.O. BOX 1000
LAKE CHARLES

PO # -----

DATE RECEIVED-- 01/14/91

LA 70602

SAMPLE: INCINERATOR FEED <50 PPM PCB S

SAMPLE #	TESTS	RESULTS
LS 00131599	SPECIFIC GRAVITY	= 1.44
	PH	= 4.00
	BTU/LB	= 6,917.00
	% CHLORIDE	= 54.00
	% SULFATE	< 1.00
	VISCOSITY	= 37.00
	FLASH POINT F	> 140.00
	COMPATIBILITY = YES	

E. A. Peden

E. A. PEDEN
TECHNICAL MANAGER



WASTE MATERIAL DATA SHEET

No. 131599

A GENERAL INFORMATION

CUSTOMER INFO

Invoice Address ☐ Cert Address ☒ N/A ☐

Contact GERALD L. PERRY
Customer Name PPG INDUSTRIES, INC.
Address P.O. BOX 1000
City LAKE CHARLES
State LOUISIANA Zip 70602
Phone # 318-491-4370
USEPA ID# LAD008086506

Generator Name (if different) _____

SHIPPING FACILITY

Invoice Address ☐ Cert Address ☐ N/A ☒

Contact GINGER BUSBY
Facility Name PPG INDUSTRIES, INC.
Address P.O. BOX 1000
City LAKE CHARLES
State LOUISIANA Zip 70602
Phone # 318-491-4500
USEPA ID# LAD008086506

B WASTE DESCRIPTION

NAME OF WASTE Incinerator Feed <50ppm PCBsPROCESS GENERATING WASTE WTU

C GENERAL CHARACTERISTICS (at 70° F unless otherwise specified)

COLOR Black ☒ LIQUID 100 % FREE PHASES _____
ODOR yes ☐ SOLID ☒ SINGLE LAYER
☐ NONE ☒ STRONG ☐ SLUDGE ☐ DOUBLE LAYER
☐ MILD ☐ POWDER ☐ MULTI-LAYER

D NFPA HAZARD CODE

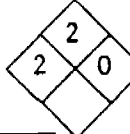
Enclose copies of safety data sheets
applicable to waste. Include data
constituents of waste and materials
used in process.

Attachments _____ Special Instructions _____

FLAMMABLE

HEALTH

REACTIVE



E SPECIAL HANDLING INSTRUCTIONS

If special handling techniques are required, specify: Use proper protective equipment.Is a representative sample provided? Yes ☒ No ☐

Sample Purchase Order No. _____

F RCRA INFORMATION

X

Is this a USEPA hazardous waste?

Please give USEPA hazardous waste codes:

F024	D001	D018	D019
D021	D022	D027	D032
D033	D039	D040	

Describe nature of reactivity if D003 waste: _____

G SHIPPING INFORMATION

DOT hazardous material ☒

PROPER SHIPPING NAME Waste Flammable liquid, n.o.s.*
HAZARD CLASS Flammable ID # NA2103 R/O 1 lb.
ANTICIPATED VOLUME Liquid GAL UN1993 Yds. 250,000 LBS.
_____ DRUM(S), BULK ☒ RAIL ☒
☐ ONE TIME ☐ WK ☐ MO ☒ YR OTHER _____
Type and size of container: Tank Truck
WT PER CONTAINER: _____
WT PER GALLON: 14lb

H 1 SPECIFIC GRAVITY

☐ <0.8 ☒ 1.4-1.7
☐ 0.8-1.0 ☐ >1.7
☐ 1.0-1.2 ☐ _____ actual
☒ 1.2-1.4 _____ actual

2 VISCOSITY

(centipoise)

☐ 1-100 ☐ _____ actual
☐ 100-1000
☐ 1000-10,000
☐ >10,000

3 ASH (%WT)

☐ <0.1
☐ 0.1-1.0
☐ 1.0-5.0
☒ 5.0-20 ☐ _____ actual
☐ >20 _____ actual

4 TOTAL SUSPENDED SOLIDS (%WT)

☐ <0.5 ☐ >20
☐ 0.5-2.0 ☐ _____ actual
☐ 2.0-5.0
☐ 5.0-20

5 pH

☐ <2 ☐ >12.5
☐ 2-6 NA
☐ 6-8 _____ actual
☐ 8-10 _____ constituent
☐ 10-12.5

6 BTU's 1000/lbs.

☒ <1 ☐ 12-16
☒ 1-4 ☐ >16
☐ 4-8 _____ actual
☐ 8-12 _____ actual

7 FLASH POINT (closed cup)

☒ <100 F ☐ >200 F
☐ 100-140 F _____ actual
☐ 140-200 F

8 SULFUR (%WT)

☐ <0.5 ☐ >5
☐ 0.5-2.0 U
☐ 2-5 _____ actual

9 HALOGENS (%)

Chlorine 70 Fluorine 0
Bromine 0 Iodine 0

10 METAL ☒ TOTAL (PPM) ☐ EPA E P (mg/L)

Arsenic (As) < 0.10
Barium (Ba) 27
Cadmium (Cd) < 0.50
Chromium (Cr) < 2.0
Mercury (Hg) < 0.02
Lead (Pb) < 10.0
Chromium-Hex (Cr+6) Not Tested
Selenium (Se) < 0.10
Silver (Ag) < 1.0
Copper (Cu) 8.9
Nickel (Ni) < 2.0
Zinc (Zn) 11
Thallium (Tl) < 5.0
Other (Specify) _____

11 HAZARDOUS CHARACTERISTICS AND OTHER COMPONENTS

Reactivity: ☒ None ☐ Explosive ☐ Pyrophoric ☐ Shock Sensitive
☐ Water Reactive ☐ Etiological ☐ Radioactive ☐ Acutely Hazardous Waste
Cyanides U (ppm) PCB's <50 (ppm) Pesticides NOT BELIEVED
Sulfides U (ppm) Phenolics U (ppm) PRESENT

I CHEMICAL COMPOSITION (MUST TOTAL 100%)

Solids (carbon)	10-24	1,4-Dichlorobenzene	1-5 %
FeCl ₃	1 %	Hexachlorobenzene	1-5 %
Chlorinated Hydro-	80-90%	Hexachloro-1,3-butadiene	5-10%
carbons (mixture of	1 %	Ethylene Dichloride	1-10%
C ₁ -C ₆)	1 %	Trichloroethylene	1-10%
Benzene	0-1 %	Perchloroethylene	10-20%
Carbon Tetrachloride	0-1 %	1,1,2-Trichloroethane	10-20%
Chloroform	0-1 %	Tetrachloroethanes	10-20%
Chlorobenzene	0-1 %	1,1-Dichloroethane	0-1 %

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND
ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE, AND THAT ALL
KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED

AUTHORIZED SIGNATURE

ENV. CTRL. SPEC. 1/02/91

TITLE

DATE

PC / WSE

ENSCO USE ONLY

RECERTIFICATION DATE

SL 021468 MAR



LAND DISPOSAL RESTRICTION NOTIFICATION FORM

SECTION I

Manifest No.: _____
 Generator Name: PPG INDUSTRIES INC. WMDS No.(s): 131599
 Address: 1300 Columbia Southern Road Completed By: *Sherald L. Perry*
Lake Charles, LA Title: Environmental Control Specialist
 USEPA ID No.: LAD008086506 Date: _____

(Continuation Sheets may be attached and are numbered accordingly: Page ____ of ____)

SECTION II SPENT SOLVENT WASTE (268.30) AND CALIFORNIA LIST WASTE (268.32)

(Check Here) ☐ A. Spent Solvent Wastes

The shipment, as referenced by the above manifest number, contains waste(s) which correspond to USEPA Hazardous Waste Code(s) _____

The above referenced waste(s) must be treated to meet the treatment standard expressed as Constituent Concentration in the Waste Extract as outlined in 40 CFR 268.41 Table CCWE below.

Table CCWE—Constituent
Concentrations in Waste Extract

	Concentration (in mg/l)	
	Wastewaters containing spent solvents	All Other spent solvent wastes
F001-F005 Spent Solvents		
Acetone	0.05	0.59
n-Butyl alcohol	5.0	5.0
Carbon disulfide	1.05	4.81
Carbon tetrachloride	.05	.96
Chlorobenzene	.15	.05
Cresols (and cresylic acid)	2.82	.75
Cyclohexanone	125	.75
1,2-Dichlorobenzene	.65	125
Ethyl acetate	.05	.75
Ethylbenzene	.05	.053
Ethyl ether	.05	.75
Isobutanol	5.0	5.0
Methanol	.25	.75
Methylene chloride	.20	.96
Methylene chloride (from the pharmaceutical industry)	12.7	.96
Methyl ethyl ketone	0.05	0.75
Methyl isobutyl ketone	0.05	0.33
Nitrobenzene	0.66	0.125
Pyridine	1.12	0.33
Tetrachloroethylene	0.079	0.05
Toluene	1.12	0.33
1,1,1-Trichloroethane	1.05	0.41
1,1,2-Trichloro-1,2,2-trifluoroethane	1.05	0.96
chloroethylene	0.062	0.091
chlorofluoromethane	0.05	0.96
Xylene	0.05	0.15

☐ —If indicated by "X," any or all of the above specified waste codes are referenced to Certification Statement Section VI.
 "X" here.
 if applicable

SECTION IV**LAB PACK CERTIFICATION**

In accordance with 40 CFR 268.7(a)(7) and (8) and regarding those lab pack wastes corresponding to USEPA Hazardous Waste Code(s) _____

identified as restricted wastes contained in this shipment and referenced by the above manifest no., I submit the following certification statement(s) where applicable:

**Appendix IV Lab Pack Wastes
(Organometallic)**

I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only the wastes specified in Appendix IV to Part 268 or solid wastes not subject to regulation under 40 CFR Part 261. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

Signature _____

Title _____ Date _____

**Appendix V Lab Pack Wastes
(Organic)**

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste and that the lab pack contains only organic wastes specified in Appendix V to Part 268 or solid wastes not subject to regulation under 40 CFR Part 261. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

Signature _____

Title _____ Date _____

Lab Pack Wastes with hazardous waste codes not specified by EPA in Appendix IV or V are referenced in Section III of this form.

SECTION V

**RESTRICTED WASTE SUBJECT TO AN EXTENSION IN THE EFFECTIVE DATE
(40 CFR 268 Appendix VII & VIII)**

The wastes contained in this shipment as referenced by the above manifest no. which are subject to an Extension in the Effective Date in accordance with 40 CFR Subpart C are identified below:

USEPA Hazardous Waste Code/
Treatability Group (NWW or WW)

Extension Date

(These wastes may be subject to the California List Prohibitions)

SECTION VI

**CERTIFICATION OF RESTRICTED WASTE WHICH MAY BE LAND DISPOSED
WITHOUT FURTHER TREATMENT**

In accordance with 268.7(a)(2) and regarding those restricted waste(s) contained in this shipment, these waste(s) may be land disposed without further treatment. I submit the following certification statement:

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

Signature _____ Title _____ Date _____

(This certification is referenced to the appropriate USEPA Hazardous Code(s) in the foregoing appropriate Sections II or III).

Waste analysis is attached where available, otherwise, the information contained herein is based upon my thorough knowledge of the waste(s).

I hereby certify that all information submitted in this document is complete and accurate to the best of my knowledge and information.

Signature Derald J. Perry Title Env. Control Spec. Date 1/08/91

GKH 7/90



SL 021470

WASTE ANALYSIS REPORT
Environmental Laboratory
PPG Industries, Inc., Lake Charles, La.

Sample: Incinerator Feed from WTU.
 Location of Sample: Composite made from daily Lab samples.
 Sample Collector: G. Prejean
 Sample Method/Device: Composite - bottle
 Date/Time of Sampling : 11-14-90 9:30 am
 Date All Analyses Completed: 11-30-90 Report Submitted By: Gary Prejean
 Date: 12-10-90

ANALYSIS RESULTS

Lab Log Sample No 1463

Test Parameters		Standard				
Ignitability (✓) N/A		140°F				
Corrosivity pH		2-12.5				
(✓) N/A inch/yr		0.250 max				
Reactivity						
(✓) N/A						
TCLP Toxicity (mg/L)	As	5.0 max				
	Ba	100.0 max				
	Cd	1.0 max				
	Cr	5.0 max				
	Pb	5.0 max				
	Hg	0.2 max				
	Se	1.0 max				
	Ag	5.0 max				
(✓) N/A						
CHLORINATED HYDROCARBONS (%)						
Other Parameters (if needed) () N/A ND/none detected	Chloroethene	(VC)		PCBs		ppm
	Chloroethane	(EC)				
	Dichloromethane	(MeCl ₂)		Heat		
	1,1-Dichloroethene	(VDC)		Value		BTU/lb
	1,1-Dichloroethane	(DCE)				
	1,2-Dichloroethene	(cis/trans)		Chlorine		%
	Trichloromethane	(CHCl ₃)				
	1,2-Dichloroethane	(EDC)		Water		wt%
	1,1,1-Trichloroethane	(MC)				
	Tetrachloromethane	(CCl ₄)		Density		g/ml
	Trichloroethene	(Trichlor)				
	1,1,2-Trichloroethane	(TCE)		Ash		wt%
	Tetrachlorethene	(Perchlor)				
	1,1,1,2-Tetrachloroethane	(unsym)		Sodium		wt%
	1,1,2,2-Tetrachloroethane	(sym)				
	Pentachloroethane	(Penta)				
	para-Dichlorobenzene	(p-DCB)				
	Hexachloroethane	(HEXA)				
	Hexachlorobutadiene	(HCB ₂ D)				
	Unknown ClHC					
Total ClHC		(%)				

TEST PROCEDURE

LAB LOG NO. 1463

PARAMETER	METHOD USED		
Ignitability <u>✓</u> N/A	<u> </u> Pensky-Martens Closed Cup Tester ASTM Standard D-93-79	<u> </u> Setaflash Closed Cup Tester ASTM Standard D-3278-78	<u> </u> Other (Specify)
Corrosivity (pH) <u>✓</u> N/A	<u> </u> SW-846 Method 9040 pH measurement		<u> </u> Other (Specify)
Corrosivity (inch/yr) <u>✓</u> N/A	<u> </u> National Association of Corrosion Engineers Standard TM-01-69		<u> </u> Other (Specify)
Reactivity <u>✓</u> N/A (One affirmative answer will classify waste reactive)	1. Normally unstable without detonating? 2. Reacts violently with water? 3. Forms potentially explosive mixture with water? 4. Cyanide or sulfide bearing waste which can generate toxic gases, vapor or fumes under pH conditions between 2 and 12.5? 5. Capable of detonation or explosive reaction if subjected to strong initiating source or if heated under confinement? 6. Readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure? 7. Forbidden Class A, or Class B explosive as defined in 49CFR 173.51, 173.53, and/or 173.88?		

TCLP*

✓ N/A

Parameter	SW 846 Method	Parameter	SW 846 Method	Parameter	SW 846 Method
As	6010	As	6010	PCE	LD-2571
Ba	6010	ClHC	5030	ClHC	LD-2562A
Cd	6010	Sodium	3050,6010	Heat Value	LD-2562B
Cr	6010	pH	9045	Chlorine	LD-2562C
Pb	6010			Water	LD-2561
Hg	7470			Ash	LD-2561
Se	6010				

*Toxicity Characteristic Leaching Procedure

LABORATORY IDENTIFICATION

Laboratory: PPG Lake Charles	Test Parameters Analyzed and Date	
Analyst(s): American Labs	Total volatile organics	11-19-90
	Total semi-volatile org.	11-30-90

c

SL 021472

From: American Laboratories and
Research Services, Inc.
P.O. Box 15609
Hattiesburg, MS 39402-5609
601-264-9320

Date: November 30, 1990

To: Mr. William H. Cooper
PPG Industries
Chemicals Division
P.O. Box 1000
Lake Charles, LA 70602

The following analytical results have been obtained for the
indicated sample which was submitted to this laboratory:

Sample I.D. AA06087

Sample location: PPGHC

LabLog1463-Incinerator Feed

Collected by: GPP

Collection date: 11/14/90 Time: 9:30

Laboratory submittal date: 11/15/90 Time: 19:45

Received by: RLH

Validated by: RLH

Parameter: Volatile Organics

Method reference: SW846-8240

Result: see appended report

Date started: 11/19/90

Time started: 22:04

Date finished: 11/19/90

Analyst: BB

Parameter: Semi-Volatile Organics

Method reference: SW846-8270

Result: see appended report

Date started: 11/30/90

Time started: 16:06

Date finished: 11/30/90

Analyst: LWL

SL 021473

Mr. William H. Cooper
Page: 2
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Sample I.D. AAC0087 (continued)

Data for Volatile Organics mg/Kg (ppm)

Component Name	Concentration	Component MDL
Chloromethane	Not Det	50
Bromomethane	Not Det	50
Vinyl Chloride	Not Det	50
Chloroethane	Not Det	50
Methylene Chloride	Not Det	20
1,1-Dichloroethene	Not Det	20
1,1-Dichloroethane	600	20
trans-1,2-Dichloroethene	Not Det	20
Chloroform	1100	20
1,2-Dichloroethane	34000	20
1,1,1-Trichloroethane	2500	20
Carbon Tetrachloride	990	20
Bromodichloromethane	Not Det	20
1,2-Dichloropropane	Not Det	20
t-1,3-Dichloropropene	Not Det	20
Trichloroethene	3600	20
Dibromochloromethane	Not Det	20
1,1,2-Trichloroethane	120000	20
Benzene	300	20
c-1,3-Dichloropropene	Not Det	20
Bromoform	150	20
Tetrachloroethene	80000	20
1,1,2,2-Tetrachloroethane	74000	20
Toluene	140	20
Chlorobenzene	6200	20
Ethylbenzene	150	20
Xylene, total	420	20
c-1,2-Dichloroethene	Not Det	20
1,1,1,2-Tetrachloroethane	9200	20

Data for Semi-Volatile Organics mg/Kg

Component Name	Concentration	Component MDL
Phenol	Not Det	300
bis(2-Chloroethyl) Ether	6700	300
2-Chlorophenol	Not Det	300
1,3-Dichlorobenzene	1800	300
1,4-Dichlorobenzene	9500	300
1,2-Dichlorobenzene	5800	300
bis(2-Chloroisopropyl) Ether	Not Det	300

SL 021474

Mr. William H. Cooper
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November 30, 1990

Sample I.D. AA06087 (continued)

Data for Semi-Volatile Organics (continued)

Component Name	Concentration	Component MDL
N-Nitroso-di-n-propylamine	Not Det	300
Hexachloroethane	15000	300
Nitrobenzene	Not Det	300
Isophorone	Not Det	300
2-Nitrophenol	Not Det	300
2,4-Dimethylphenol	Not Det	300
bis(2-Chloroethoxy) Methane	Not Det	300
2,4-Dichlorophenol	Not Det	300
1,2,4-Trichlorobenzene	13000	300
Naphthalene	1400	300
Hexachlorobutadiene	52000	300
4-Chloro-3-methylphenol	Not Det	300
Hexachlorocyclopentadiene	Not Det	300
2,4,6-Trichlorophenol	Not Det	300
2-Chloronaphthalene	Not Det	300
Dimethyl Phthalate	Not Det	300
Acenaphthylene	Not Det	300
Acenaphthene	Not Det	300
2,4-Dinitrophenol	Not Det	1500
4-Nitrophenol	Not Det	1500
2,4-Dinitrotoluene	Not Det	300
2,6-Dinitrotoluene	Not Det	300
Diethylphthalate	Not Det	300
4-Chlorophenyl-phenylether	Not Det	300
Fluorene	Not Det	300
4,6-Dinitro-2-methylphenol	Not Det	1500
N-Nitrosodiphenylamine	Not Det	300
4-Bromophenylphenyl ether	Not Det	300
Hexachlorobenzene	11000	300
p-ntachlorophenol	Not Det	1500
Phenanthrene	Not Det	300
Anthracene	Not Det	300
Di-n-Butylphthalate	Not Det	300
Fluoranthene	Not Det	300
Pyrene	Not Det	300
Butylbenzylphthalate	Not Det	300
3,3'-Dichlorobenzidine	Not Det	600
Benzo(a)anthracene	Not Det	300
bis(2-Ethylhexyl) Phthalate	Not Det	300
Chrysene	Not Det	300
Di-n-octyl Phthalate	Not Det	300
Benzo(b)fluoranthene	Not Det	300
Benzo(k)fluoranthene	Not Det	300
Benzo(a)pyrene	Not Det	300
Indeno(1,2,3-c,d)pyrene	Not Det	300
Dibenzo(a,h)anthracene	Not Det	300

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Sample I.D. AA00087 (continued)

Data for Semi-Volatile Organics (continued)

Component Name	Concentration	Component MDL
Benzo(g,h,i)perylene	Not Det	300
Benzidine	Not Det	2400
alpha-BHC	Not Det	300
beta-BHC	Not Det	300
delta-BHC	Not Det	300
gamma-BHC	Not Det	300
Heptachlor	Not Det	300
Aldrin	Not Det	300
Heptachlor Epoxide	Not Det	300
Endosulfan I	Not Det	300
Di ldrin	Not Det	300
4,4'-DDE	Not Det	300
Endrin	Not Det	300
Endosulfan II	Not Det	300
4,4'-DDD	Not Det	300
Endosulfan Sulfate	Not Det	300
4,4'-DDT	Not Det	300
Methoxychlor	Not Det	300
Endrin Aldehyde	Not Det	300
alpha-Chlordane	Not Det	300
gamma-Chlordane	Not Det	300
Toxaphene	Not Det	600
Aroclor-1016	Not Det	300
Aroclor-1221	Not Det	300
Aroclor-1232	Not Det	300
Aroclor-1242	Not Det	300
Aroclor-1248	Not Det	300
Aroclor-1254	Not Det	600
Aroclor-1260	Not Det	600
1,2-Diphenylhydrazine	Not Det	300
N-Nitrosodimethylamine	Not Det	300

Comments:

Reference Lab Report No. R1670.

SL 021476