

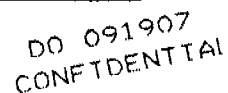
Distribution Services
86-87 Rev

~~CONFIDENTIAL~~

DO 091906
CONFIDENTIAL

CANOFILED
NOV 2 - 1993
DO NOT ADD ANYTHING
TO THIS PACKAGE
SEE OFFICE PROFESSIONAL!!

CANOFILED
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DO 091908
CONFIDENTIAL

$$\text{ppm} = \frac{\text{ug}}{\text{L}} \times \frac{\text{ACAD} \left(\begin{array}{c} .09375 \\ 24.45 \\ \text{m.w.} \\ 260.79 \end{array} \right)}{1} = .0037 \text{ ppm}$$

$$\frac{.310}{2.52} \times \frac{24.45}{260.79} = .0115 \text{ ppm} \quad 11.53 \text{ ppb}$$

$$\frac{.260}{2.51} = .0097 \text{ ppm} \quad 9.7 \text{ ppb}$$

(Recovery Rate)

Block Deirda Swamp Person or Area Monitored Clinton Crochet ⁴³²⁷⁸⁴ Sample No 07703

Monit ring for Hexes Type Sample: ☐ Personnel ☐ Area
☒ Excursion ☐ Other _____ Date 4/10/87

Other Chemicals Present: _____ Job Classification 501 Description of task performed during monitoring period
including any unusual activities _____

_____ transporting hex tank

Time Started _____

Time Stopped 162.15 turn on @ gate: turn off after deposit

Beginning Flow Rate 104.0 ^{16863.6 cc} Respirator used ☐ Yes ☐ No Type? _____

Ending Flow Rate 104.0 Wind, Temp. and Humidity _____

Calibration Check Prior to Monitoring? ☒ Yes ☐ No

Calibration: ☒ Bubblemeter ☐ Rotometer
☐ Other _____

NOTE: J b description must be concise and complete. Form filled in by J. Paul

 LOUISIANA DIVISION INDUSTRIAL HYGIENE

DO 091910
CONFIDENTIAL

Block Devils Swamp Person or Area Monitored Lawrence Brandy Sample No 07700
Monitoring for Heves Type Sample: ☒ Personnel ☐ Area #432008
☐ Excursion ☐ Other _____ Date 3/27/87

Other Chemicals Present: _____ Job Classification SET Description of task performed during monitoring period
including any unusual activities _____

Time Started _____ Transporting hex tank
to solvent block
Time Stopped 113.09 11535cc

Beginning Flow Rate 101cc Respirator used ☐ Yes ☐ No Type? _____

Ending Flow Rate 103 Wind, Temp. and Humidity turn on at site gate
turn off deposit

Calibration Check Prior to Monitoring? ☒ Yes ☐ No

Calibration: ☒ Bubblemeter ☐ Rotometer
☐ Other _____

NOTE: Job description must be concise and complete. Form filled in by J. Paul



LOUISIANA DIVISION INDUSTRIAL HYGIENE

DO 091911
CONFIDENTIAL

Block 111 Person or Area Monitored _____ Sample **Nº 07701**

Monitoring for Hevea Type Sample: ☐ Personnel ☐ Area
☐ Excursion ☐ Other _____ Date 3/27/87

Other Chemicals Present: _____ Job Classification _____ Description of task performed during monitoring period
including any unusual activities _____

Time Started _____ Blank

Time Stopped _____

Beginning Flow Rate _____ Respirator used ☐ Yes ☐ No Type? _____

Ending Flow Rate _____ Wind, Temp. and Humidity _____

Calibration Check Prior to Monitoring? ☒ Yes ☐ No

Calibration: ☒ Bubblemeter ☐ Rotometer

☐ Other _____

NOTE: Job description must be concise and complete. Form filled in by J. Paul



LOUISIANA DIVISION INDUSTRIAL HYGIENE

DO 091912
CONFIDENTIAL

DO 091913
CONFIDENTIAL

Block Devil Swamp Person or Area Monitored Clinton Crockett Sample No 07702
Monitoring for Hexes Type Sample: ☒ Personnel ☐ Area
☐ Excursion ☐ Other _____ Date 4/02/87
Other Chemicals Present: _____ Job Classification SOT Description of task performed during monitoring period
including any unusual activities transporting waste tank
from NKC site to Solvents
turn on at gate
turn off
Time Started 125.27 _____
Time Stopped 12.77 CC _____
Beginning Flow Rate 98 cc/102 cc Respirator used ☐ Yes ☐ No Type? _____
Ending Flow Rate 102 cc _____
Calibration Check Prior to Monitoring? ☒ Yes ☐ No
Calibration: ☒ Bubblemeter ☐ Rotometer
☐ Other _____
NOTE: Job description must be concise and complete.

Wind, Temp. and Humidity

Form filled in by J. Paul



LOUISIANA DIVISION INDUSTRIAL HYGIENE

$$\# 07700 \quad \frac{.110}{11.5 \ell} \times \frac{\text{HCB} \cdot (.09375)}{24.45} \quad \frac{260.79 \text{ (mw)}}{\quad} \quad .0009 \text{ ppm} \quad 0.90 \text{ ppb}$$

$$\# 07703 \quad \frac{.190}{12.777 \ell} \times .09375 \quad .0014 \text{ ppm} \quad 1.4 \text{ ppb}$$

$$\# 07703 \quad \frac{.130}{16.863} \times .09375 \quad .0007 \text{ ppm} \quad 0.72 \text{ ppb}$$



DOW CHEMICAL U.S.A
LOUISIANA DIVISION

ENVIRONMENTAL CONTROL

REPORT OF ANALYSIS

REFERENCE NO. 693 + 700

DATE THIS REPORT 6/10/87

CHARGE _____

DEPT. Devil Swamp

DATE SAMPLES COLLECTED _____

SAMPLES Potential Exposure of Personnel to Hexes*

ID	Concentration: Micrograms					REMARKS
	HCE	HCB D	HCB Z			
07711	BLD	BLD	BLD	(Blank)		BLANK
07706	ND	.016	ND		0.10	ppb
07710	ND	ND	ND		N/D	
07717	BLD	BLD	BLD	(Blank)		Blank
07716	ND	.031	ND		0.30	ppb
						* Hexes
						HCE - Hexachloroethane
						HCB D - Hexachlorobutadiene
						HCB Z - Hexachlorobenzene

METHOD Hexane Extraction
Hp 5790 GC: ECD

*BLD BELOW LIMIT OF DETERMINATION

VALUES REPORTED HAVE BEEN CORRECTED FOR INTERFERENCES

MLS SOLVENT 10
LIMIT OF DETERMINATION HCE = .009 µg/ml
(WEIGHT/VOLUME) HCB D .009 µg/ml
HCB Z .009 µg/ml

REMARKS Refer to databook 0101 P.P. 61 + 62 for Calibration
data and Calculation

DO 091915
CONFIDENTIAL

BY Lewis J. Almo

SIGNED Terry White

Block Devils Swamp Person or Area Monitored Laurence Breau Sample No 07706
 Monitoring for Leves Type Sample: ☐ Personnel ☐ Area
☒ Excursion ☐ Other _____ Date 4/21/87
 Other Chemicals Present: _____ Job Classification SOT Description of task performed during monitoring period
 including any unusual activities 105 min 11455 109.1
8:00 AM 8:30 AM 9:45 AM 11:00 AM
 Time Started _____ Time Stopped _____
 Beginning Flow Rate 111.0 Respirator used ☐ Yes ☐ No Type? _____
 Ending Flow Rate 107.2 Wind, Temp. and Humidity _____
 Calibration Check Prior to Monitoring? ☒ Yes ☐ No
 Calibration: ☐ Bubblemeter ☐ Rotometer
☐ Other _____
 NOTE: Job description must be concise and complete.



LOUISIANA DIVISION INDUSTRIAL HYGIENE

Form filled in by J. Paul

unplugged - 4/21/87 - 2:40 PM
Pr. 4/21/87

Block Deer Swamp Person or Area Monitored Clinton Crochet #432784 Sample No 07710

Monitoring for Hexa Type Sample: ☐ Personnel ☐ Area
☒ Excursion ☐ Other Date 5/12/87

Other Chemicals Present: Job Classification Inspector Description of task performed during monitoring period
including any unusual activities DOT

Time Started 140.32 N/D transport waste from NPE site to solvent

Time Stopped 143

Beginning Flow Rate 102.0 CC Respirator used ☐ Yes ☐ No Type?

Ending Flow Rate 99.3 CC Wind, Temp. and Humidity

Calibration Check Prior to Monitoring? ☒ Yes ☐ No

Calibration: ☒ Bubblemeter ☐ Rotometer
☐ Other

NOTE: Job description must be concise and complete. Form filled in by J. Paul

 LOUISIANA DIVISION INDUSTRIAL HYGIENE

DO 091917
CONFIDENTIAL

Block Demonstration

Monitoring for hexene

Person or Area Monitored Personnel # 432008

Sample No 07716

Type Sample: ☐ Personnel ☐ Area

☒ Excursion ☐ Other

Date 6/1/87

Other Chemicals Present:

Job Classification SOT Description of task performed during monitoring period including any unusual activities

Time Started 8:25 AM

Time Stopped 100.58

Transport waste - tank to solvent from NPC site
100.58 min
8800.7cc

Beginning Flow Rate 88 cc

Respirator used ☐ Yes ☐ No

Type?

Ending Flow Rate 87 cc

Wind, Temp. and Humidity

Calibration Check Prior to Monitoring? ☒ Yes ☐ No

Calibration: ☒ Bubblemeter ☐ Rotometer

☐ Other

NOTE: Job description must be concise and complete.

Form filled in by J. Smith



LOUISIANA DIVISION INDUSTRIAL HYGIENE

Block _____ Person or Area Monitored _____ Sample No 07711 ⁸_W
Monitoring for Hexes Type Sample: ☐ Personnel ☐ Area
☐ Excursion ☐ Other _____ Date 5/12/87

Other Chemicals Present: _____ Job Classification _____ Description of task performed during monitoring period
including any unusual activities _____

Time Started _____
Time Stopped _____

Beginning Flow Rate _____ Respirator used ☒ Yes ☐ No Type? 07706
07710

Ending Flow Rate _____ Wind, Temp. and Humidity _____

Calibration Check Prior to Monitoring? ☐ Yes ☐ No
Calibration: ☐ Bubblemeter ☐ Rotometer
☐ Other _____

NOTE: Job description must be concise and complete.

Form filled in by _____



LOUISIANA DIVISION INDUSTRIAL HYGIENE

DO 091919
CONFIDENTIAL

Block Hexe

Person or Area Monitored _____

Sample No 07717

Monitoring for Hexe

Type Sample: ☐ Personnel ☐ Area

☐ Excursion ☐ Other _____

Date

6/1/87

Other Chemicals Present:

Job Classification _____

Description of task performed during monitoring period

including any unusual activities

Time Started _____

Time Stopped _____

Beginning Flow Rate _____

Respirator used ☐ Yes ☐ No

Type? _____

Ending Flow Rate _____

Wind, Temp. and Humidity

Calibration Check Prior to Monitoring? ☐ Yes ☐ No

Calibration: ☐ Bubblemeter ☐ Rotometer

☐ Other _____

NOTE: Job description must be concise and complete.

Form filled in by _____

DOW

LOUISIANA DIVISION INDUSTRIAL HYGIENE

DO 091920
CONFIDENTIAL

S/N 2562

Block Devils Swamp Person or Area Monitored Lawrence Breaux ⁴³²⁰⁰⁸ Sample No 08009

Monitoring for Hexes Employee ID # _____ Job Classification 507

Type Sample: ☒ Personnel ☐ Area ☐ Excursion ☐ Other _____ Date 7/1/87

Other Chemicals Present: _____ Description of task performed during monitoring period including any unusual activities _____

Time Started _____

Time Stopped _____

Beginning Flow Rate 90.1 Respirator used ☐ Yes ☐ No Type? _____

Ending Flow Rate 90.1 Wind, Temp. and Humidity _____

Calibration Check Prior to Monitoring? ☒ Yes ☐ No

Calibration: ☒ Bubblemeter ☐ Rotometer

☐ Other _____

NOTE: Job description must be concise and complete.

Form filled in by Jackie Paul



LOUISIANA DIVISION INDUSTRIAL HYGIENE

DO 091921
CONFIDENTIAL

NCSD

6/10/11
report

07706

$$\frac{.016}{11.45\text{ l}} \times \frac{24.45}{260.79(\text{m.w.})} \times (.09375) = .0001 \text{ ppm} \quad 0.10 \text{ pp}$$

07710 N/D

07716

$$\frac{.031}{8.8 \text{ l}} \times (.09375) = .0003 \text{ ppm} \quad 0.30 \text{ ppl}$$