



DOW CHEMICAL U.S.A.
LOUISIANA DIVISION

ENVIRONMENTAL CONTROL

REPORT OF ANALYSIS

REFERENCE NO. AN072

DATE THIS REPORT 8/26/81

CHARGE 82

DEPT. (Vinyl II) Tank Car Co

DATE SAMPLES COLLECTED 8/19/81

SAMPLES Potential Personnel Exposure to Vinyl Chloride

ID	Concentration: Total milligrams					REMARKS
02256				.028		
02257				.007		
02258				.011		
02259				.006		

METHOD Dry ice chilled CS₂
extraction - GC/FID

*BLD - BELOW LIMIT OF DETERMINATION

VALUES REPORTED HAVE BEEN CORRECTED FOR INTERFERENCES

MLS SOLVENT 10 ml CS₂
LIMIT OF DETERMINATION .085 µg/ml
(WEIGHT/VOLUME)

REMARKS

BY D.S.

SIGNED Terry White

DO 084614
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$$\frac{\text{milligrams detected} \times 24.4 \times 1000}{\text{mL} \times \text{charcoal Eff.} \times \text{liters air sampled}} = \text{PPM(V)} \quad \text{OK}$$

Potential Personnel Exposure To Vinyl chloride at Taskcar
Sample ID.

$$02256 \quad \frac{.028 \times 24.4 \times 1000}{62.5 \times 1.00 \times 11.72} = 0.93$$

$$02257 \quad \frac{.007 \times 24.4 \times 1000}{62.5 \times 1.00 \times 11.84} = 0.23$$

$$02258 \quad \frac{.011 \times 24.4 \times 1000}{62.5 \times 1.00 \times 5.61} = 0.77$$

$$02259 \quad \frac{.006 \times 24.4 \times 1000}{62.5 \times 1.00 \times 5.76} = 0.41$$

TANK CAR
Block CLEANING - 41 Pump # 11
Person or Area Monitored J.L. MOREAU, JR. Sample No 02258
Monitoring for VINYL CHLORIDE Type Sample: ☒ Personnel ☐ Area
CAR CAT 46959 ☒ Excursion ☐ Other _____ Date 8-19-81
Other Chemicals Present: _____ Job Classification ENVIRON. SPECIALIST Description of task performed during monitoring period
HCL including any unusual activities OPENING CAR ONLY
Time Started 1205 PM
Time Stopped 1220 PM
Beginning Flow Rate 100 cc
16.5 SECS. Respirator used ☐ Yes ☒ No Type? _____
Ending Flow Rate 100 cc
16.2 SECS. Wind, Temp. and Humidity
Calibration Check Prior to Monitoring? ☒ Yes ☐ No FROM N/NW 9 MPH - 89°
Calibration Equipment Used? BUBBLE
NOTE: Job description must be concise and complete. Form filled in by J.L. Moreau, Jr.

LOUISIANA DIVISION INDUSTRIAL HYGIENE

TANK CAR
Block CLEANING - 41 Pump # 11-A
Person or Area Monitored J.L. MOREAU, JR. Sample No 02259
Monitoring for VINYL CHLORIDE Type Sample: ☒ Personnel ☐ Area
CAR CAT 46906 ☒ Excursion ☐ Other _____ Date 8-19-81
Other Chemicals Present: _____ Job Classification ENVIRON. SPECIALIST Description of task performed during monitoring period
HCL including any unusual activities OPENING CAR ONLY
Time Started 1240 PM
Time Stopped 1255 PM
Beginning Flow Rate 100 cc
15.7 SECS. Respirator used ☐ Yes ☒ No Type? _____
Ending Flow Rate 100 cc
15.5 SECS. Wind, Temp. and Humidity
Calibration Check Prior to Monitoring? ☒ Yes ☐ No FROM N/NW 9 MPH - 89°
Calibration Equipment Used? BUBBLE
NOTE: Job description must be concise and complete. Form filled in by J.L. Moreau, Jr.

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TANK CAR PUMP # 4
Block CLEANING - 41 Person or Area Monitored W. JOHNSON Sample No 02256

Monitoring for VINYL CHLORIDE Type Sample: ☒ Personnel ☐ Area

☐ Excursion ☐ Other

Date 8-19-81

Other Chemicals Present:

Job Classification LABORER

Description of task performed during monitoring period

HCL-ALKANOLAMINES-

including any unusual activities OPENING AND CLEANING CARS GATX 46959

GLYCOL

AND GATX 46906

Time Started 1201 PM

Time Stopped 235 PM

Beginning Flow Rate 50 cc 60.0 SECS. Respirator used ☒ Yes ☐ No

Type? BREATHING AIR

Ending Flow Rate 50 cc 71.4 SECS.

Wind, Temp. and Humidity

Calibration Check Prior to Monitoring? ☒ Yes ☐ No

FROM N/NW 9 MPH - 89°

Calibration Equipment Used? BUBBLE

NOTE: Job description must be concise and complete.

Form filled in by J.L. Marvan, Jr.



LOUISIANA DIVISION INDUSTRIAL HYGIENE

TANK CAR PUMP # 5
Block CLEANING - 41 Person or Area Monitored HERBERT WALKER Sample No 02257

Monitoring for VINYL CHLORIDE Type Sample: ☒ Personnel ☐ Area

☐ Excursion ☐ Other

Date 8-19-81

Other Chemicals Present:

Job Classification LABORER

Description of task performed during monitoring period

HCL-ALKANOLAMINES-

including any unusual activities OPENING + CLEANING CARS GATX 46959

GLYCOL

AND GATX 46906

Time Started 1201 PM

Time Stopped 235 PM

Beginning Flow Rate 50 cc 62.8 SECS. Respirator used ☐ Yes ☒ No

Type?

Ending Flow Rate 50 cc 67.3 SECS.

Wind, Temp. and Humidity

Calibration Check Prior to Monitoring? ☒ Yes ☐ No

FROM N/NW 9 MPH - 89°

Calibration Equipment Used? BUBBLE

NOTE: Job description must be concise and complete.

Form filled in by J.L. Marvan, Jr.

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