

TABLE 1
OCCUPATIONAL ENVIRONMENT AIR MONITORING

<u>Area</u>	<u>Monitored Personnel</u>	<u>Date-Time</u>	<u>Contaminant</u>	<u>Concentration</u>	<u>Conditions</u>	<u>Method</u>
Mercury Cell Circuit	Cell Operator	11-7-72 (A.M.)	Chlorine	0.5 ppm	-	Monitaire Sampler
	Cell Auxiliary Operator	Ditto	Ditto	0.5 ppm	-	Ditto
	Cell Repairman	Ditto	Ditto	0.5 ppm	-	Ditto
	Cell Cut-Out Man	Ditto	Ditto	0.75 ppm	-	Ditto
	Cell Operator	11-7-72 (A.M.)	Mercury	0.05 mg/M ³	-	Monitaire Sampler
	Cell Auxiliary Operator	7-31/8-4-72 Average of 5 eight hour exposures	Ditto	0.070 mg/M ³		Silver Wool Personnel Monitor
		11-7-72 (A.M.)	Ditto	< 0.05 mg/M ³	-	Monitaire Sampler
	Cell Repairman	7-24/7-28-72 Average of 5 eight hour exposures	Ditto	0.053 mg/M ³	-	Silver Wool Personnel Monitor
		11-7-72 (A.M.)	Ditto	< 0.05 mg/M ³	-	Monitaire Sampler

1 BB 0000141 1

LD-1121E/5

TABLE 1 (CONT'D.)
OCCUPATIONAL ENVIRONMENT AIR MONITORING

<u>Area</u>	<u>Monitored Personnel</u>	<u>Date-Time</u>	<u>Contaminant</u>	<u>Concentration</u>	<u>Conditions</u>	<u>Method</u>
Mercury Cell Circuit	Cell Cut-Out Man (I)	7-24/7-28-72 Average of 5 eight hour exposures	Mercury	0.069 mg/M ³	-	Silver Wool Personnel Monitor
	Cell Cut-Out Man (II)	Ditto	Ditto	0.061 mg/M ³	-	Ditto
		11-7-72 (A.M.)	Ditto	0.05 mg/M ³	-	Monitaire Sampler
	Cell Auxiliary Operator	11-7-72 (A.M.)	Hydrogen Sulfide	< 0.01 ppm	-	H ₂ S Badge
	Brine Area Operator	Ditto	Ditto	< 0.01 ppm	-	Ditto

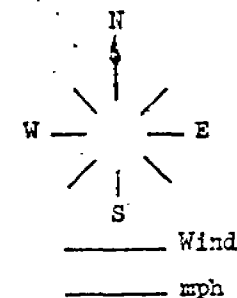
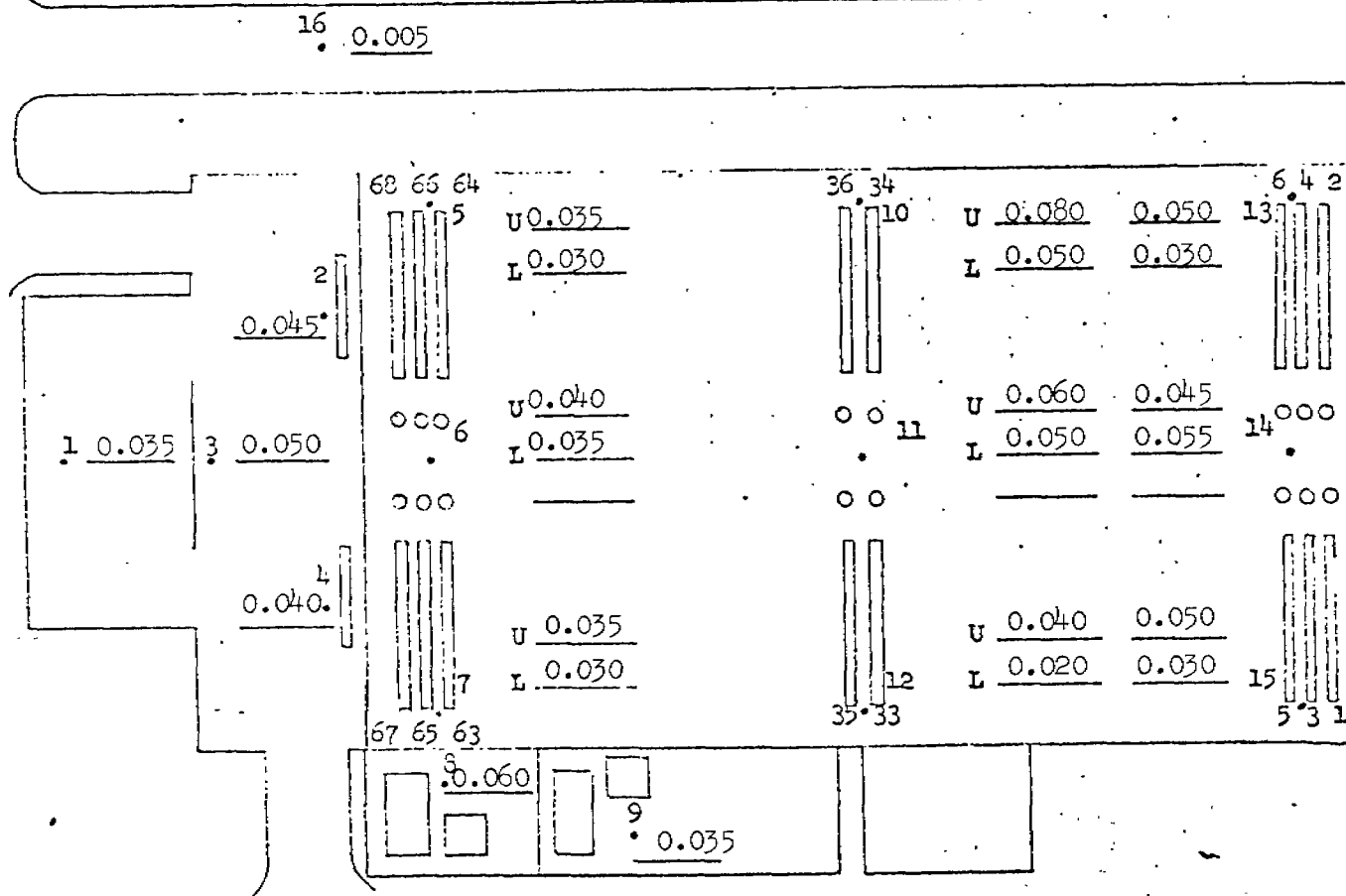
1 BB 0000142 1

LD-1121E/6

TABLE 1
MERCURY IN AIR - MERCURY CELL
(Hg in $\mu\text{g}/\text{M}^3$)

Date: 5/3-11/20/77
(Average of 7 Surveys)

Laboratory	0.010	Control Room	0.015	H ₂ Stack Area	0.010
Lunch Room	0.035	Office	0.010	Open Cells	
No. of People	6	Motor Control	0.020	Relative Humidity	
Rest Room	0.015	Area Maintenance	0.010	Temperature	
Locker Room	0.010	13.8 KV Sw. Gr.	0.005	Maintenance	0.005
				Lunch Room	



Approved: _____

Distribution

A. T. Raetzsch
D. L. Duncan
J. M. Davis
E. J. Tullier
Dr. Lovejoy
M. G. Burns
E. McVicker
C. A. Burns
C. P. LeBlanc
H. J. Hoenes, Jr.
Wilton Wallace (2)
B. Green
Laboratory File

U - Cell Floor
L - Ground Floor

Surveys taken with J-W Lemaire Mercury Sniffer, Model MV-2.

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TABLE 3
OCCUPATIONAL ENVIRONMENT AIR MONITORING

<u>Area</u>	<u>Monitored Personnel</u>	<u>Date-Time</u>	<u>Contaminant</u>	<u>Concentration</u>	<u>Conditions</u>	<u>Method</u>
Brine Treatment/ Liquefaction	Liquefaction Operator	11-8-72 (A.M.)	Chlorine	0.75 ppm	-	Monitaire Sampler
	Brine Treatment Operator	Ditto	Ditto	0.5 ppm	-	Ditto
	Liquefaction Operator	11-8-72 (A.M.)	Ammonia	8 ppm	-	Monitaire Sampler
	Brine Treatment Operator	Ditto	Ditto	< 5 ppm	-	Ditto

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TABLE 4
OCCUPATIONAL ENVIRONMENT AIR MONITORING

<u>Area</u>	<u>Monitored Personnel</u>	<u>Date-Time</u>	<u>Contaminant</u>	<u>Concentration</u>	<u>Conditions</u>	<u>Method</u>
Caustic Plant	Evaporator Operator	11-8-72	Chlorine	0.5 ppm	-	Monitaire Sampler
	Area Janitor	Ditto	Ditto	0.5 ppm	-	Ditto
	Evaporator Operator	11-8-72 (A.M.)	Ammonia	< 5 ppm	-	Monitaire Sampler
	Area Janitor	Ditto	Ditto	< 5 ppm	-	Ditto
Caustic Bird Area	-	11-8-72 (A.M.)	NaOH Mist	0.2 mg/M ³	-	Water Scrubber/ Atomic Absorption Sodium Anal.
PELS®/Anhydrous	Operator	11-11-72 (A.M.)	Chlorine	0.5 ppm	-	Monitaire Sampler

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TABLE 5
OCCUPATIONAL ENVIRONMENT AIR MONITORING

<u>Area</u>	<u>Monitored Personnel</u>	<u>Date-Time</u>	<u>Contaminant</u>	<u>Concentration</u>	<u>Conditions</u>	<u>Method</u>
Diaphragm Cell Circuits	Tender, Circuits 1,2	11-9-72 (A.M.)	Chlorine	< 0.5 ppm	-	Monitaire Sampler
	Tender, Circuits 5,6	Ditto	Ditto	< 0.5 ppm	-	Ditto
	Tender, Circuits 7,8	Ditto	Ditto	< 0.5 ppm	-	Ditto
	Operator	Ditto	Ditto	< 0.5 ppm	-	Ditto

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TABLE 6
OCCUPATIONAL ENVIRONMENT AIR MONITORING

Area	Monitored Personnel	Date-Time	Contaminant	Concentration	Conditions	Method
Diaphragm Cell Repair and Manufacturing	Lead Pot Area	11-10-72 (P.M.)	Lead	< 0.05 mg/M ³	Pouring Lead	MSA Universal Pump with Lead Kit
	Solder Wiping Area	Ditto	Ditto	0.05 mg/M ³	Wiping tinned bus bars.	Ditto
	Repairman	11-15-72 (P.M.)	Chlorine	< 0.5 ppm	-	Monitaire Sampler
	Diaphragm Depositor	10-19-72 (A.M.)	Asbestos	0.68 Fibers > 5 microns/ml	-	Personnel Monitor with Filter
		10-24-72 (A.M.)	Ditto	1.15 Fibers > 5 microns/ml	-	Ditto
Acid Dipping Tank Area		11-29-72 (P.M.)	Hydrogen Chloride	25 ppm ¹	While dipping cathodes.	MSA Universal Pump.
		11-29-72 (P.M.)	Ditto	10 ppm ¹	While washing cathodes.	Ditto
		11-29-72 (P.M.)	Ditto	2 ppm ¹	While drying cathodes.	Ditto

1. Respirator necessary.

1 BB 0000147 1

LD-1121E/11

TABLE 8
OCCUPATIONAL ENVIRONMENT AIR MONITORING

<u>Area</u>	<u>Monitored Personnel</u>	<u>Date-Time</u>	<u>Contaminant</u>	<u>Concentration</u>	<u>Conditions</u>	<u>Method</u>
Power Houses	"A" Watch Engineer	11-11-72 (A.M.)	Chlorine	< 0.5 ppm	-	Monitaire Sampler
	"B" Watch Engineer	Ditto	Chlorine	< 0.5 ppm	-	Ditto

1 BB 0000148 1

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TABLE 9
OCCUPATIONAL ENVIRONMENT AIR MONITORING

Area	Monitored Personnel	Date-Time	Contaminant	Concentration	Conditions	Method
Silica Pigments (see note for locations of sampling)	C	9-13-72 (A.M.)	Particulates	1.3 mg/M ³	Loading	Electrostatic Precipitation
	D	Ditto	Ditto	4.9 mg/M ³	Loading	Ditto
	E	Ditto	Ditto	9.4 mg/M ³	Bagging and Loading	Ditto
	F	Ditto	Ditto	22.6	Ditto	Ditto
	Sampling personnel wearing Midget Cascade Impactor while sampling above points - 1-1/2 hours	9-13-72 (A.M.)	Total Particulates	9.9 mg/M ³		Andersen Mini-Sampler
			Respirable Portion	2.2 mg/M ³ or 22% Respirable (wind E at 7 mph)		
Furnace Building Upper Floor		11-7-72 (A.M.)	NaOH Mist	0.2 mg/M ³		Water Scrubber/ "AA" Sodium Analysis

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TABLE 10
OCCUPATIONAL ENVIRONMENT AIR MONITORING

<u>Area</u>	<u>Monitored Personnel</u>	<u>Date-Time</u>	<u>Contaminant</u>	<u>Concentration</u>	<u>Conditions</u>	<u>Method</u>
Organics Area (see map for sample locations)	1 thru 9	9-11-72	Phosgene	None Detected	14 mph ESE wind	Unico Gas Detection Tubes
	1 thru 9	9-11-72	Methyl Chloroform	None Detected	14 mph ESE wind	Unico Gas Detection Tubes
	5	9-11-72	Per/Tri	10 ppm	14 mph ESE wind	Unico Gas Detection Tubes
	8	9-11-72	Per/Tri	10 ppm	Ditto	Ditto
	All other points	9-11-72	Per/Tri	None Detected	Ditto	Ditto
	3	9-11-72	Vinyl Chloride	None Detected	14 mph ESE wind	Unico Gas Detection Tubes
	4	9-11-72	Ditto	None Detected	Ditto	Ditto
	1 thru 9	9-11-72	Carbon Tetrachloride	None Detected	14 mph ESE wind	Unico Gas Detection Tubes
	3	9-11-72	Hydrogen Chloride	None Detected	14 mph ESE wind	Unico Gas Detection Tubes
	4	9-11-72	Ditto	None Detected	Ditto	Ditto
	8	9-11-72	Ditto	None Detected	Ditto	Ditto
	9	9-11-72	Ditto	None Detected	Ditto	Ditto

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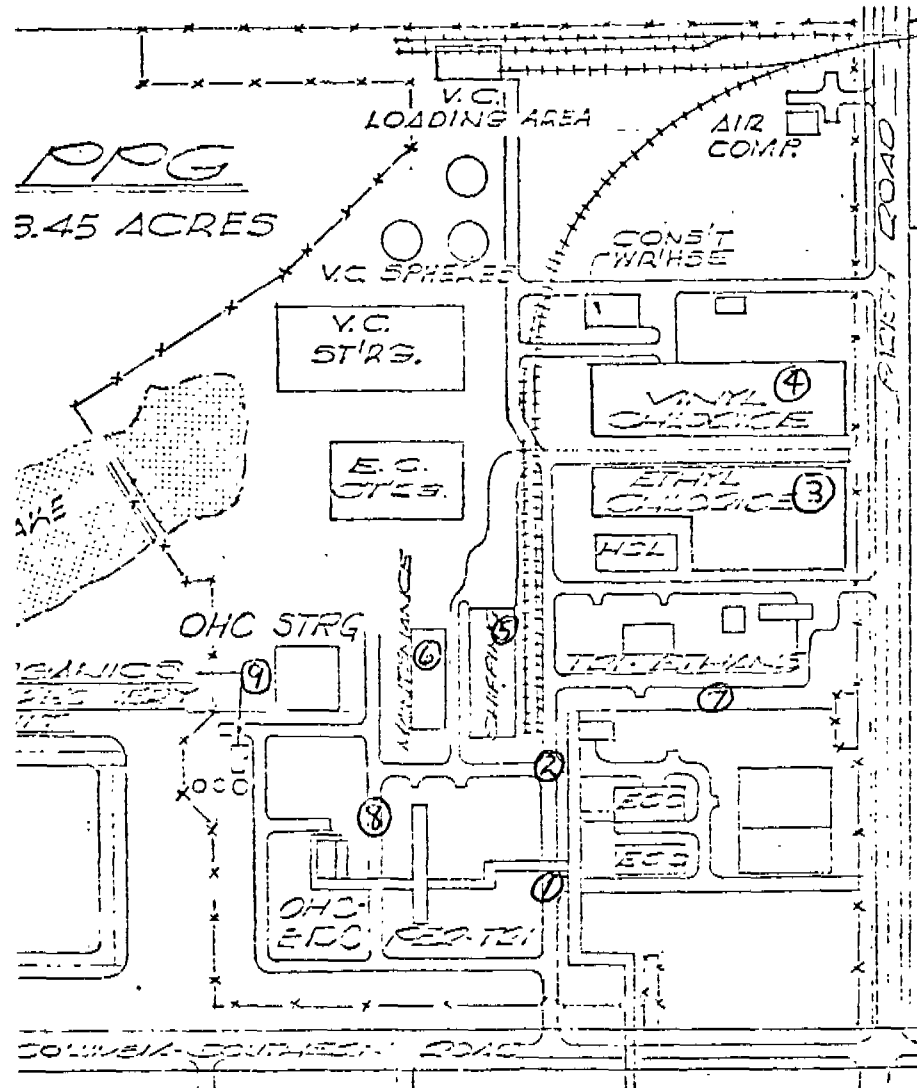
LD-1121E/14

SILICA PIGMENTS AREA
PARTICULATE AIR SAMPLING LOCATIONS

- A Downstairs in Frit Reactor area of Furnace Building
- B Upstairs, over the south end of the furnace in Furnace Building
- C Northeast corner of the Pigments Shipping Building where trucks and boxcars are loaded
- D Center of Pigments Shipping Building, under North-South conveyors
- E On the Bagging Platform between Baggers in Pigments Shipping Building
- F Center of Lower Roadway leading out the west door of Pigments Shipping Building, adjacent to Bagging Area and Hopper Car Loading

Sampling

Points



PITTSBURGH PLATE GLASS COMPANY
CHEMICAL DIVISION
LAKE CHARLES, LOUISIANA

Laboratory Department

Date: 11-27-72

Factory: _____

Analysis of Oil Contamination of Compressor Air Used for Breathing11-15-723.5 mg/M³ Hydrocarbon Mist and Vapor*11-21-723.8 mg/M³ Hydrocarbon Mist and Vapor** Sampled by impingement into CCl₄ and analyzed by infrared spectroscopy.(OSHA's threshold limit value for oil mist is 5 mg/M³)

cc: B. Chapman

B. Bailey

H. J. Hoehes/File

C. P. LeBlanc

| BB 0000153 |

PITTSBURGH PLATE GLASS COMPANY
CHEMICAL DIVISION
LAKE CHARLES, LOUISIANA

Laboratory Department

Date: 11-30-72Factory: Diaphragm RepairAnalysis of HCl in Air Around Cathode Dipping Vats
11-29-72 (PM)

While Dipping Cathode (Pit Open)	25 ppm HCl
While Washing Cathode (Pit Open)	10 ppm HCl
While Drying Cathode (Pit Open)	2 ppm HCl

Notes: Respirators in use during routine

T.L.V. for HCl is 5 ppm - Ceiling

cc: Jacobi

M.G. Burns

Khoury

Hoenes/File

C.P. LeBlanc

QUICKI-LETTER •

• NATIONAL PRODUCT / NATIONAL BLANK BOOK COMPANY • HOLYOKE, MASS.

NO. 1000
1000

MAIL TO: Dr. H.B. Longoy

SUBJECT
Heat Stress
Temperature
Measurements

FROM
+ E.D. Thomas

DATE
9-11-72

MESSAGE

I have discussed the current status of our WBGT Temperature measurements in the Cell Room with C.P. LeBlanc and Mark Wood.

We have data for both day and evening shifts; however we have none for graveyard. Unfortunately I don't believe there is any way we can make this in before Ed's visit, since Mark needs to finish the Silva Riment stack survey and help prepare for the stack sampling school before then.

+
REPLY

SIGNED

DATE

SNAP-A-PART
47-213
NATIONAL

THIS COPY FOR PERSON ADDRESSED

SENDER RETAIN THIS COPY

1 BB 0000155 1