

1983

TANK CAR CLEANING
8 HOUR TIME WEIGHTED AVERAGES

<u>METHYLENE CHLORIDE TLV-100</u>	<u>CARBON TETRACHLORIDE TLV-5</u>	<u>CHLOROFORM TLV-10</u>	<u>ETHYLENE DICHLORIDE TLV-10</u>	<u>PERCHLORO- ETHYLENE TLV-50</u>	<u>VINYL CHLORIDE TLV-1</u>	<u>METHYL CHLORIDE TLV-50</u>	<u>ETHYLENE OXIDE TLV-3</u>
0.004	0.114	5.57	1.57	0.72	0.06	0.03	0.12
0.006	0.144	7.52	0.71	0.82	0.07	0.03	0.13
11.22	0.13	0.27	4.71	0.54		0.04	0.16
18.57	0.15	0.62	5.92	1.39		0.03	0.19
0.3	3.44	4.23	2.02	0.06		0.56	
0.49	4.58	2.37	14.79	0.85		0.53	
		1.30					
		3.65					
		1.03					
		0.73					

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TANK CAR CLEANING
15 MINUTE EXCURSIONS (SHORT TERM SAMPLES)

<u>METHYLENE CHLORIDE TLV-500</u>	<u>CARBON TETRACHLORIDE TLV-20</u>	<u>CHLOROFORM TLV-50</u>	<u>ETHYLENE DICHLORIDE TLV-15</u>	<u>PERCHLORO- ETHYLENE TLV-150(200)</u>	<u>VINYL CHLORIDE TLV-5</u>	<u>METHYL CHLORIDE TLV-100</u>	<u>ETHYLENE OXIDE TLV-50</u>
0.194	3.41	0.84	3.58	2.11	0.08	0.62	7.75
		0.57	3.93	2.24		0.65	3.56
6.37	3.4			1.96	0.08	0.62	
30.53	3.44	4.73	90.3		0.08		2.70
	3.3	6.72		0.94		0.63	1.94
		9.78			0.08		
					0.24	1.59	
					0.25		
					0.08		
					0.08		
					0.26		
					0.26		
					0.26		
					0.25		
					0.21		
					0.23		
					0.0		
					0.0		
					0.62		
					2.0		

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8 HOUR TWA - PERSONNEL SAMPLES - BARGES

<u>METHYLENE CHLORIDE TLV-100</u>	<u>CHLOROFORM TLV-10</u>	<u>PERCHLORO- ETHYLENE TLV-50</u>	<u>ETHYLENE DICHLORIDE TLV-10</u>	<u>CARBON TETRACHLORIDE TLV-5</u>	<u>METHANOL TLV-200</u>	<u>TOLUENE TLV-100</u>
0.32	2.57	0.04	9.25	1.46	1.05	1.78
12.27	3.94	0.05	10.26	3.21	1.03	0.67
0.53	5.02	0.04	9.88	1.46	0.04	0.31
	0.24				0.03	
27.09		0.15	0.01		2.03	41.58
0.009	4.95	0.04	2.74			
17.88	7.00	0.14	0.77			9.89
0.16	7.85		1.33			
						0.14
	1.06					0.15
	0.53					0.14
	2.51					0.12
						0.17
						0.17
						0.15
						0.22
						3.10
						2.47

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15 MIN. EXCURSIONS - PERSONNEL SAMPLES - BARGES

<u>METHYLENE CHLORIDE TLV-500</u>	<u>CHLOROFORM TLV-50</u>	<u>PERCHLORO- ETHYLENE TLV-150(200)</u>	<u>ETHYLENE DICHLORIDE TLV-15</u>	<u>CARBON TETRACHLORIDE TLV-20</u>
0.57	8.72	0.63	0.16	18.42
0.31	8.67	0.86	0.16	
5.31	6.19		0.16	
2.05	9.91	1.9	0.16	
		1.9		
		1.9	3.80	
		1.9	4.85	

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<u>BENZENE</u> <u>BARGE</u>	<u>DATE</u>	<u>NAME</u>	<u>S.S. NO.</u>	<u>PERSONNEL</u> <u>SAMPLE PPM</u>	<u>MG PHENOL</u> <u>AM-PM</u>	<u>DELTA</u> <u>PHENOL</u>
DC-306	2-3-83	ALFRED WILSON	437-13-2018	26.48	3-18	+15
DC-306	2-3-83	CARL WOODS	438-11-9731	35.06	1-1	0
DC-306	2-3-83	NORRIS WASHINGTON	434-64-8694	0.04	5-3	-2
DC-349	2-13-83	FRANCIS BARLOW	437-58-8467	0.57	1-1	0
DC-349	2-13-83	PHILIP DOIRON	439-23-5347	171.98	7-4	-3
DC-349	2-13-83	FREDERICK JACKSON	437-90-8525	14.28	3-7	+4
DC-309	2-18-83	RUEL SENECA	439-98-2201	103.62	5-28	+23
DC-309	2-18-83	BRET FERGUSON	438-13-3680	31.34	2-12	+10
DC-309	2-18-83	JOHN LEFEBVRE	435-17-5371	0.12	7-6	-1
DC-310	2-24-83	RICHARD BEARD	437-60-4707	4.2	1-2	+1
DC-310	2-24-83	ANTHONY SENSAT	433-23-3875	14.6	6-29	+23
DC-374	3-8-83	RICHARD BEARD	437-60-4707	0.09	1-1	0
DC-374	3-8-83	BRET FERGUSON	438-13-3680	1.19	4-4	0
DC-374	3-8-83	JOHN LEFEBVRE	435-17-5371	0.07	5-10	+5
DC-374	3-8-83	ANTHONY SENSAT	433-23-3875	0.64	5-7	+2
DC-310	3-10-83	DALE HAMMONDS	436-04-4137	9.29	2-2	0
DC-310	3-10-83	STEVEN PREJEAN	437-04-4550	0.95	5-4	-1
DC-310	3-10-83	ANTHONY SENSAT	433-23-3875	0.43	8-24	+16
DC-306	3-29-83	ANTHONY SENSAT	433-23-3875	0.22	45-43	-2
DC-306	3-29-83	STEVE PREJEAN	437-04-4550	13.19	NO SPECIMENS	--
DC-306	3-29-83	DALE HAMMONDS	436-04-4137	28.81	14-15	+1
DC-306	4-11-83	NORRIS WASHINGTON	434-64-8694	0.09	97-77	-20
DC-306	4-11-83	ALFRED WILSON	437-13-2018	20.29	15-23	+8
DC-306	4-11-83	CARL WOODS	438-11-9731	3.24	4-4	0
DC-306	4-11-83	REGINALD WATTS	439-19-5274	30.42	22-34	+12