NTP 87
8/17/82

Facility Name: Ideal Cooperage

Location: Jersey City, NJ

EPA Region: II

Person(s) in Charge of the Facility: RAY BASSO (EPA)
TEX ALDRIDGE (JERSEY CITY H.W. TASK FORCE)

Name of Reviewer: Peter M. Cangialosi (FIT) Date: 8/4/82

General Description of the Facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

This installation formerly was used to recondition barrels. However, within the last few years, the company has experienced several major fires which left the main buildings totally destroyed. The property is poorly kept and unsecured. (The owner has indicated that arson is a problem). Chemical residues of solids, oily, and sludge-like materials are abundant over most of the site. Sampling by FCHA-FIT/Newark indicates many contaminants are present at the site and are migrating off-site via an adjacent ditch.

Scores: S_M = 25.03 (S_{gw} = 3.77 S_{sw} = 8.39 S_a = 42.31)

S_{FE} = 30.63

S_{DC} = 62.50

HRS COVER SHEET

231941

GROUND WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 45	1	0	45	3.1
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2 Route Characteristics					3.2
Depth to Aquifer of Concern	0 1 2 3	2	6	6	
Net Precipitation	0 1 2 3	1	2	3	
Permeability of the Unsaturated Zone	0 1 2 3	1	1	3	
Physical State	0 1 2 3	1	3	3	
	Total Route Characteristics Score		12	15	
3 Containment	0 1 2 3	1	3	3	3.3
4 Waste Characteristics					3.4
Toxicity/Persistence	0 3 6 9 12 15 18	1	18	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	2	8	
	Total Waste Characteristics Score		20	26	
5 Targets					3.5
Ground Water Use	0 1 2 3	3	3	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	
	Total Targets Score		3	49	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			2160	57,330	
7 Divide line 6 by 57,330 and multiply by 100	S_{gw} = 3.77				

SURFACE WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 45	1	45	45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					4.2
Facility Slope and Intervening Terrain	0 1 2 3	1		3	
1-yr. 24-hr. Rainfall	0 1 2 3	1		3	
Distance to Nearest Surface Water	0 1 2 3	2		6	
Physical State	0 1 2 3	1		3	
Total Route Characteristics Score				15	
3 Containment	0 1 2 3	1		3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistence	0 3 6 9 12 15 18	1	18	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	2	8	
Total Waste Characteristics Score			20	26	
5 Targets					4.5
Surface Water Use	0 1 2 3	3	6	9	
Distance to a Sensitive Environment	0 1 2 3	2	0	6	
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 / 12 16 18 20 / 24 30 32 35 40	1	0	40	
Total Targets Score			6	59	
6 If line 1 is 45, multiply 1 x 4 x 5. If line 1 is 0, multiply 2 x 3 x 4 x 5			5400	64,350	
7 Divide line 6 by 64,350 and multiply by 100	S_{sw} = 8.39				

AIR ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 (45)	1	45	45	5.1
Date and Location:	OVA survey performed by FIT on 8/4/82, detectable release from site documented				
Sampling Protocol:	OVA survey made - breathing level				
If line 1 is 0, the S = 0. Enter on line 5. If line 1 is 45, then proceed to line 2.					
2 Waste Characteristics					5.2
Reactivity and Incompatibility	(0) 1 2 3	1	0	3	
Toxicity	0 1 2 (3)	3	9	9	
Hazardous Waste Quantity	0 1 (2) 3 4 5 6 7 8	1	2	8	
	Total Waste Characteristics Score		17	20	
3 Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 (27) 30	1	27	30	
Distance to Sensitive Environment	(0) 1 2 3	2	0	6	
Land Use	0 1 2 (3)	1	3	3	
	Total Targets Score		30	39	
4 Multiply 1 x 2 x 3			14850	35,100	
5 Divide line 4 by 35,100 and multiply by 100	S_a = 42.31				

	S	S^2
Groundwater Route Score (S_{gw})	3.77	14.21
Surface Water Route Score (S_{sw})	8.39	70.39
Air Route Score (S_a)	42.31	1790.14
$S_{gw}^2 + S_{sw}^2 + S_a^2$		1874.~~74~~ 56
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		43.~~20~~ 30
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73$		S_M = 25.03

WORKSHEET FOR COMPUTING S_M

FIRE AND EXPLOSION WORK SHEET *

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Containment	1 (3)	1	3	3	7.1
2 Waste Characteristics					7.2
Direct Evidence[1]	0 (3)	1	3	3	
Ignitability	0 1 (2) 3	1	2	3	
Reactivity	(0) 1 2 3	1	0	3	
Incompatibility[2]	(0) 1 2 3	1	0	3	
Hazardous Waste Quantity	0 1 (2) 3 4 5 6 7 8	1	2	8	
Total Waste Characteristics Score			7	20	
3 Targets					7.3
Distance to Nearest Population[3]	0 1 2 3 4 (5)	1	5	5	
Distance to Nearest Building	0 1 2 (3) onsite	1	3	3	
Distance to Sensitive Environment	(0) 1 2 3	1	0	3	
Land Use[4]	0 1 2 (3)	1	3	3	
Population Within 2-Mile Radius[5]	0 1 2 3 4 (5)	1	5	5	
Buildings Within 2-Mile Radius[5]	0 1 2 3 4 (5)	1	5	5	
Total Targets Score			21	24	
4 Multiply 1 × 2 × 3			441	1,440	
5 Divide line 5 by 1,440 and multiply by 100			S_{FE} = 30.63		

[1] Fires have already occurred

[2] The wastes have been spilled and mixed over the entire site. There is no evidence of incompatible substances

[3] Adjacent tracks of Erie-Lackawanna Commuter Railroad

[4] Commercial & Industrial adjacent, includes Commuter Railroad

[5] Includes most of Jersey City and Hoboken, NJ

* Numerous fires have occurred at the site. The site owner has indicated these were started by arsons. Due to the nature of the site, its location and observations of children in the area (on-site) (some being abusive toward the owner) there is a continued demonstrated Fire and explosion threat at the site

DIRECT CONTACT WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Incident[1]	(0) 45	1	0	45	8.1
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility[2]	0 1 2 (3)	1	3	3	8.2
3 Containment[3]	0 (15)	1	15	15	8.3
4 Waste Characteristics[4] Toxicity	0 1 2 (3)	5	15	15	8.4
5 Targets					8.5
Population Within a 1-Mile Radius	0 1 2 3 4 (5)	4	20	20	
Distance to a Critical Habitat	(0) 1 2 3	4	0	12	
Total Targets Score			20	32	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			13500	21,600	
7 Divide line 6 by 21,600 and multiply by 100	S_{DC} = 62.50				

[1] none documented

[2] Fence around site has holes, gaps and is down in some areas -- does not preclude entry at all

[3] ~~no~~ contaminants are spilled on ground surface

[4] PCB's and others