SDMS Document
126060

Facility Name: ARSYNCO, INC.

Location: CARLSTADT BERGEN COUNTY

EPA Region: II

Person(s) in Charge of the Facility: DENNIS SPACE

Name of Reviewer: FRANK SOPCE Date: 10/5/89

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.)

ARSYNCO IS INVOLVED IN THE MANUFACTURE OF BATCH CHEMICALS. SEVERAL OUTDOOR DRUM STORAGE AREAS EXIST ON SITE.

Scores:

HRS S_M = 9.4 (S_{gw} = 3.57 S_{sw} = 15.9 S_a = 0)

PRO S_M = 18.6 (S_{gw} = 4.47 S_{sw} = 15.9 S_a = 27.7)

HRS COVER SHEET

Ground Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	HRS	Max. Score	PRO
1 Observed Release	0 45	1	0	45	45
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					
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	
4 Waste Characteristics					
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	18
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	1
Total Waste Characteristics Score			19	26	19
5 Targets					
Ground Water Use	0 (1) 2 3	3	3	9	3
Distance to Nearest Well/Population Served	(0) 4 6 8 10 / 12 16 18 20 / 24 30 32 35 40	1	0	40	0
Total Targets Score			3	49	3
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			2052	57,330	2565
7 Divide line 6 by 57,330 and multiply by 100		S_{gw} =	3.57		4.47

Surface Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	HRS	Max. Score	PRO
1 Observed Release	0 45	1	45	45	45
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					
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 Waste Characteristics					
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	18
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	1
Total Waste Characteristics Score			19	26	19
5 Targets					
Surface Water Use	0 1 (2) 3	3	6	9	6
Distance to a Sensitive Environment	0 1 2 (3)	2	6	6	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	0
Total Targets Score			12	55	12
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			10260	64,350	10260
7 Divide line 6 by 64,350 and multiply by 100		S_{sw} =	15.9		15.9

AIR ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multiplier	HRS	Max. Score	PRO
1 Observed Release	0 45	1	0	45	45
Date and Location:					
Sampling Protocol:					
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					
Reactivity and Incompatibility	0 1 2 3	1		3	2
Toxicity	0 1 2 3	3		9	6
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	1
	Total Waste Characteristics Score			20	9
3 Targets					
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	15
Distance to Sensitive Environment	0 1 2 3	2		6	6
Land Use	0 1 2 3	1		3	3
	Total Targets Score			39	24
4 Multiply 1 x 2 x 3			0	35,100	9720
5 Divide line 4 by 35,100 and multiply by 100 S_a =					27.7

HRS

	S	S^2
Groundwater Route Score (S_{gw})	3.57	12.7
Surface Water Route Score (S_{sw})	15.9	252.8
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		265.5
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		16.3
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		9.4

WORKSHEET FOR COMPUTING S_M

PRO

	S	S^2
Groundwater Route Score (S_{gw})	4.47	19.9
Surface Water Route Score (S_{sw})	15.9	252.8
Air Route Score (S_a)	27.7	767.29
$S_{gw}^2 + S_{sw}^2 + S_a^2$		1039.9
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		32.2
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		18.6

WORKSHEET FOR COMPUTING S_M

ARSYNCO

BUREAU OF PLANNING AND ASSESSMENT
FILE/DATA CHECK SHEET
Developed by NJDEP DHWM/BPA 1/14/1988

Agency	Phone No.	Contact	Date	File Y/N Reviewed
N.J.DEP Div. Water Resources				
A. Central File	(609)292-0400			
B. Regional Enforcement Office.	201-669-3900	Catharine Beyer	1/4/89	yes
C. Geological Survey	(609)292-0668			
D. Water Allocation (well logs) (radius program)	(609)984-6831 (609)292-2957			
E. Groundwater Quality Mgt.	(609)292-0424			
F. Indust. Waste Mgt. (NJPDES permits)	(609)292-4860	Surya Shah	12/21/88	yes
G. Other	_____			
Div. Haz. Waste Mgnt.				
A. Regional Enforcement Office	201-669-3960		1/4/89	yes
B. Case Management	(609)633-0701	call back	12/29	NO
C. ECRA	(609)633-7141			
D. Haz. Waste Eng.	(609)292-9880	4-4863 Sunila Agrawal	1/3/89	yes
E. Other	_____			
Div. Env. Quality				
A. Reg. Air Pollution Control Office	201-669-3935		1/4/89	yes
B. Office of Quality Assurance	(609)292-3950			
C. Other	_____			
Div. Solid Waste Mgt.				
A. File Room	(609)292-0112			
B. Enforcement Office	(609)426-0791			
C. Solid Waste Eng.	(609)292-7875			

Agency	Phone No.	Contact	Date	File Y/N Reviewed
Div. Hazardous Site Mitigation				
A. Central File	(609)292-3209			No
B. B.of Env.Evaluation and Risk Assmnt.	(609)633-6801	Mike Belvise 2-3209		No
C. Site Management	(609)984-2900			
D. Other	_____			
Other N.J.DEP				
A. ORS (DEP Attorneys)	(609)292-5697			
B. Div.of Law (Att.Gen.Office)	(609)984-3900			
C. Div.of Science and Research	(609)984-6070			
D. Div.of Fish & Game	_____			
E. Right to Know	(609)292-6714			
F. Off.of Env.Anal. (aerial photos)	(609)292-8206			
F. Other	_____			
N.J. Dept.of Health	_____			
N.J. State Library	(609)292-6220			
U.S.EPA				
A. Surveilance and Monitoring Branch	(201)321-6686			
B. Response and Prevention Branch	(201)321-6658			
C. Other	_____			
Local Authorities				
A. Health Officer	201 939-~~1777~~ 2856	500 MADISON Crist		
B. Tax Assessor or Town Clerk	201 939-1777			
C. Other (Fire, Police, Public Works, etc..)	_____			