SDMS Document
122572

02-8901-16-PA
Rev. No. 0

O - HRS Score
□ - PRO score

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	4	6	
Net Precipitation	0 1 [(2)] 3	1	2	3	
Permeability of the Unsaturated Zone	0 1 2 [(3)]	1	3	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	8
Total Waste Characteristics Score			19	26	26
5 Targets					
Ground Water Use	0 1 2 [(3)]	3	9	9	9
Distance to Nearest Well/Population Served	0 4 6 8 (10) / 12 16 18 20 / 24 30 32 35 [40]	1	10	40	40
Total Targets Score			19	49	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			12,996	57,330	57,330
7 Divide line 6 by 57,330 and multiply by 100		S_{gw} =	22.67		100.00

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Surface Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multi-plier	HRS	Max. Score	PRO
1 Observed Release	0 45	1	0	45	0
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	0	3	0
1-yr. 24-hr. Rainfall	0 1 2 3	1	2	3	2
Distance to Nearest Surface Water	0 1 2 3	2	4	6	4
Physical State	0 1 2 3	1	3	3	3
Total Route Characteristics Score			9	15	9
3 Containment	0 1 2 3	1	3	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	8
Total Waste Characteristics Score			19	26	26
5 Targets					
Surface Water Use	0 1 2 3	3	6	9	6
Distance to a Sensitive Environment	0 1 2 3	2	0	6	0
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			6	55	6
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			3,078	64,350	4,212
7 Divide line 6 by 64,350 and multiply by 100		S_{sw} =	4.78		6.55

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HRS

	S	S^2
Groundwater Route Score (S_{gw})	22.67	513.93
Surface Water Route Score (S_{sw})	4.78	22.85
Air Route Score (S_a)	0.00	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		536.78
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		23.17
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		13.39

WORKSHEET FOR COMPUTING S_M

PRO

	S	S^2
Groundwater Route Score (S_{gw})	100.00	10,000.00
Surface Water Route Score (S_{sw})	6.55	42.90
Air Route Score (S_a)	0.00	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		10,042.90
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		100.21
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		57.92

WORKSHEET FOR COMPUTING S_M