02-8901-14-PA
REV. NO. 0

HRS

	S	S^2
Groundwater Route Score (S_{gw})	40.00	1600
Surface Water Route Score (S_{sw})	0	0
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		1600
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		40.00
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		23.12

WORKSHEET FOR COMPUTING S_M

PRO

	S	S^2
Groundwater Route Score (S_{gw})	73.08	5340.69
Surface Water Route Score (S_{sw})	0	0
Air Route Score (S_a)	20.77	431.39
$S_{gw}^2 + S_{sw}^2 + S_a^2$		5772.08
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		75.97
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		43.91

WORKSHEET FOR COMPUTING S_M

333560

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Ground Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multi-plier	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	12	18	18
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	1	8	1
	Total Waste Characteristics Score		13	26	19
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	40	40	40
	Total Targets Score		49	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			22932	57,330	41895
7 Divide line 6 by 57,330 and multiply by 100		S_{gw} =	40.00		73.08

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Surface Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	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	0	6	0
Physical State	0 1 2 3	1	3	3	3
Total Route Characteristics Score			5	15	5
3 Containment	0 1 2 3	1	0	3	1
4 Waste Characteristics					
Toxicity/Persistence	0 3 6 9 12 15 18	1	0	18	18
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	0	8	1
Total Waste Characteristics Score			0	26	19
5 Targets					
Surface Water Use	0 1 2 3	3	0	9	0
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			0	55	0
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			0	64,350	0
7 Divide line 6 by 64,350 and multiply by 100		S_{sw} =	0		0

○ HRS SCORE

▭ PRO SCORE

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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_a = 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	3
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	1
	Total Waste Characteristics Score			20	6
3 Targets					
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	24
Distance to Sensitive Environment	0 1 2 3	2		6	0
Land Use	0 1 2 3	1		3	3
	Total Targets Score			39	27
4 Multiply 1 x 2 x 3				35,100	7290
5 Divide line 4 by 35,100 and multiply by 100		S_a =	0		20.77

HRS SCORE 0

PRO SCORE