WORKSHEET 1
SUMMARY SCORE SHEET

Site Name: Outlook Elementary School

Site Location: (City, County, or Section/Township/Range)

NE 1/4 NW 1/4 Sec. 20 T10N R22E

Site Description: (Include management areas, compounds of concern, and quantities)

A 200-gallon heating oil tank was discovered leaking at the school during excavation of a larger intact tank. Over 1,000 yds^3 of contaminated soil was removed from the site; 75 gallons of product was recovered from the open pit.

Quantity: scored as once filled capacity of the heating oil tank.

Containment: scored as TPH as diesel, since no individual contaminants were identified (detected) during SHA.

Special Considerations: (Include limitations in site file data, data which cannot be accommodated in the model, but which are important in evaluating the risk associated with the site)

Surface water and air routes not scored. Contaminated soil removed, backfilled with clean fill to 6 ft. and covered with asphalt. Only ground water route still present.

ROUTE SCORES:

Ground Water/Human:	36.7	Overall Rank:	
Surface Water/Human:	ns		
Air/Human:	ns		
Air/Environmental:	ns		
Surface Water/Environmental:	ns		

WORKSHEET 2
ROUTE DOCUMENTATION

SURFACE WATER ROUTE

List substances to be considered for scoring. Source: _____

TPH as diesel -

Explain basis for choice of substances to be used in scoring.

only analytical work
contents of tank

List management units to be considered in scoring: Source: _____

tank
contaminated soil

Explain basis for choice of unit used in scoring.

AIR ROUTE

List substances to be considered for scoring. Source: _____

TPH as diesel

Explain basis for choice of substances to be used in scoring.

only analytical work
contents of tank

List management units to be considered in scoring: Source: _____

tank
contaminated soil

Explain basis for choice of unit used in scoring.

contaminated soil

GROUND WATER ROUTE

List substances to be considered for scoring. Source: _____

TPH as diesel

Explain basis for choice of substances to be used in scoring.

~~the~~ surface water

List management units to be considered in scoring: Source: _____

US Tanks
contaminated soil

Explain basis for choice of unit used in scoring.

WORKSHEET 3
SUBSTANCE CHARACTERISTIC WORKSHEET
FOR MULTIPLE UNIT/SUBSTANCE SITES

	Combination 1	Combination 2	Combination 3
Unit: Substance: <u>AIR ROUTE</u> Human Toxicity/Mobility Value: Environmental Toxicity/ Mobility Value: Containment Value:			
Air Human Subscore: Air Environmental Score:			
<u>SURFACE WATER ROUTE</u> Human Toxicity Value: Environmental Toxicity Value: Containment Value:			
Surface Water Human Subscore: Surface Water Environmental Subscore:			
<u>GROUND WATER ROUTE</u> Human Toxicity/Mobility Value: Containment Value:			
Ground Water Subscore:			

WORKSHEET 4
SURFACE WATER ROUTE

Not scored

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

Substance	Drinking Water Std. (µg/l)	Value	Chronic Toxicity mg/kg/day	Value	Acute Toxicity mg/kg-bw	Value	Carcinogencity Potency WOE	Factor	Value
1. TPH as diesel		6		5		3			0
2.									
3.									
4.									
5.									
6.									

Source: ____
Highest Value: 6
+2 Bonus Points?: —
Value: 6

1.2 Environmental Toxicity

Source: ___ Value: 2

Substance	Acute Criteria (µg/L)	Non-human mammalian acute toxicity (mg/kg)	Value
1. TPH as diesel			2
2.			
3.			
4.			
5.			
6.			

1.3 Substance Quantity

Source: 1 Value: 1

Explain basis: 200 gals

2.0 MIGRATION POTENTIAL

2.1 Containment

Source: 1 Value: 0

Explain basis: Underground leak — no overland route

2.2 Surface Soil Permeability: _____

Source: ___ Value: _____

2.3 Total Annual Precipitation: _____

Source: ___ Value: _____

2.4 Maximum 2-Year 24-Hr Precipitation: _____

Source: ___ Value: _____

2.5 Flood Plain: _____

Source: ___ Value: _____

2.6 Terrain Slope: _____

Source: ___ Value: _____

Not scored

3.0 TARGETS

3.1 Distance to Surface Water: _____ Source: ___ Value: _____

3.2 Population Served within 2 miles: _____ Source: ___ Value: _____

3.3 Area Irrigated by Sources within 2 miles: _____ Source: ___ Value: _____

3.4 Distance to Fishery Resource: _____ Source: ___ Value: _____

3.5 Distance to Sensitive Environment: _____ Source: ___ Value: _____

List: _____

_____

4.0 RELEASE

Explain basis: _____ Source: ___ Value: _____

_____

1.0 SUBSTANCE CHARACTERISTICS

1.1 Introduction - please review before scoring

1.2 Human Toxicity

Substance	Air Std. µg/m³	Value	Chronic Toxicity mg/kg/day	Value	Acute Toxicity mg/kg-bw	Value	Carcinogencity WOE	Potency Factor	Value
1.									
2.									
3.									
4.									
5.									
6.									

Source: _____
Highest Value: _____
+2 Bonus Points?: _____
Toxicity Value: _____

1.3 Mobility

1.3.1 Gaseous Mobility
Vapor Pressure: _____ Source: ___
Value: _____

1.3.2 Particulate Mobility
Soil Type: _____ Source: ___
Erodibility: _____
Climatic Factor: _____
Particulate Mobility Potential Value: _____

1.4 Final Human Health Toxicity/Mobility Matrix: Value: _____

1.5 Environmental Toxicity/Mobility

Substance	Non-human mammalian Acute Toxicity	Value	Mobility	Value
1.				
2.				
3.				
4.				
5.				
6.				

Environmental Toxicity Mobility Matrix: Source: ___ Value: _____

1.6 Substance Quantity: _____

Source: ___ Value: _____

WORKSHEET 5
AIR ROUTE

Not cored

2.0 MIGRATION POTENTIAL

2.1 Containment: _____ Source: ___ Value: _____

_____

3.0 TARGETS

3.1 Nearest Population: _____ Source: ___ Value: _____

3.2 Nearest Sensitive Environment: _____ Source: ___ Value: _____

List: _____

_____

_____

3.3 Population within 1/2 mile: _____ Source: ___ Value: _____

4.0 RELEASE: _____ Source: ___ Value: _____

WORKSHEET 6
GROUND WATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

Substance	Drinking Water Std. (µg/l)	Value	Chronic Toxicity mg/kg/day	Value	Acute Toxicity mg/kg-bw	Value	Carcinogencity Potency WOE	Factor	Value
1. TPH as diesel 2. 3. 4. 5. 6.		6		5		3			0

Source: ____
Highest Value: 6
+2 Bonus Points?: —
Value: 2

1.2 Mobility

Substance: Naphthalene = 1 Source: 1 Value: 1

1.3 Substance Quantity Source: 1 Value: 1

Explain basis: 200 gallons

2.0 MIGRATION POTENTIAL

2.1 Containment Source: ___ Value: 10

Explain basis: Spill

2.2 Net Precipitation: 0.3 ins Source: 1 Value: 1

2.3 Subsurface Hydraulic Conductivity: 10^{-4}-(10^{-6}) Source: 1 Value: 2

2.4 Vertical Depth to Ground Water: 0-contaminated Source: 1 Value: 8

3.0 TARGETS

3.1 Ground Water Usage: Public-no alternate supply Source: 1 Value: 9

3.2 Distance to Nearest Drinking Water Well: <600 ft Source: 1 Value: 5

3.3 Population Served with 2 miles: 9844 Source: 1 Value: 99

3.4 Area Irrigated by Wells within 2 miles: 1136 Source: 1 Value: 25

4.0 RELEASE

Explain basis: Analytical evidence Source: 1 Value: 5

1. SHA for Outlook Elementary School, May 1991
2.
3.
4.
5.
6.
7.
8.
9.
10.

WASHINGTON RANKING METHOD

ROUTE SCORES SUMMARY AND RANKING CALCULATION SHEET

Site name: Outlook Elem. School Region: CRO

City, county: Outlook, Yakima

This site was ranked on August 12, 1991, based on quintile values from 259 assessed/scored sites.

Pathway	Route Score(s)	Quintile Group number(s)
SW-HH	NS	-
Air-HH	NS	-
GW-HH	41.2	3
Sed-HH	-	-
SW-En	NS	-
Air-En	NS	-
Sed-En	-	-

Priority scores:

$\frac{H^2 + 2M + L}{8}$ = 9 to 8 → 9/8 - 1.1 = 2

$\frac{H^2 + 2L}{7}$ = NA

Use the matrix presented to the right, along with the two priority scores, to determine the site ranking. N/A refers to where there is no applicable pathway.

Human Health	Environment 5	4	3	2	1	N/A
5	1	1	1	1	1	1
4	1	2	2	2	3	4
3	1	2	3	4	4	5
2	2	3	4	4	5	(5)
1	2	3	4	5	5	5
N/A	3	4	5	5	5	5

DRAFT / (FINAL)

Matrix ("bin") Ranking: 5, or _____ No Further Action

CONFIDENCE LEVEL: The relative position of this site within this bin is:

____almost into the next higher bin.
__X__right in the middle, unlikely to ever change.
____almost into the next lower bin.

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