#### WASHINGTON RANKING METHOD

#### ROUTE SCORES SUMMARY AND RANKING CALCULATION SHEET

For Sites With No Sediment Route Migration Pathways

Site name: Exxon "Big B" Mini-	mrt Region: CRO
Street, city, county: Ellers du	
This site was ( ) ranked, (XX) re-r quintile values from a total of 338, a	anked, on <u>August 13. 1992</u> based on ssessed/scored sites.
Route Quintile Pathway Score(s) Group number(s)	Priority scores:
sw-нн <u>1.3</u> <u>1</u>	$\frac{16 + 2 + 0}{8} + \frac{18}{8} \cdot 2.25 - 3$
Air-HH	
SW-En 2.8	$\frac{H^2 + 2L}{7} = \frac{1}{5} = 0.14 = 1$
Air-En NA O	7
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  5 4 3 2 1 N/A  5 4 3 2 1 N/A  5 4 3 2 1 N/A  5 1 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 NFA
DRAFT FINAL Matrix ("bin") Ranking:,	or No Further Action
CONFIDENCE LEVEL: The relative position	n of this site within this bin is:
almost into the nex right in the middle almost into the nex rev. 8/92	, unlikely to ever change.

#### WASHINGTON RANKING METHOD

### ROUTE SCORES SUMMARY AND RANKING CALCULATION SHEET

Site name	: Exxum	"Big B" Minim	Region:	C	R	<u> </u>			
City, cou	nty:	Thensburg, K:	Hita						
This site 259 asses	was ranke sed/scored	d on <u>August 12, 199</u> sites.	9 <u>1</u> , based on	quin	til	e v	alu	es	from
<u>Pathway</u>	Route Score(s)	Quintile <pre>Group number(s)</pre>	Priority						
SW-HH	1.3		25 <del>1</del> 2 H <sup>2</sup> + 2M 8	+0 + L =	と	/R =	٠٦.	y =	4
Air-HH	NS								
GW-HH	56.4								
Sed-HH			1.+						
SW-En	2-8		H <sup>2</sup> +		. \	17=	. 1	2	
Air-En	NS								
Sed-En									
			Human Health		nvi		men	-	
	natrix pres			5	invi 4	ron	men	-	<u> N/A</u>
the right	t, along wi	th the two		5	4	3	2	1	1
the right	t, along wi scores, to	th the two determine the	Health 5 4	5	4	3	2	1	1
the right priority site rank	t, along wi scores, to king. N/A	th the two	Health  5 4 3	5	4	3	2	1	1
the right priority site rank	t, along wi scores, to king. N/A	th the two determine the refers to where	Health5 4 3 2	5	4	3	2	1	1
the right priority site rank	t, along wi scores, to king. N/A	th the two determine the refers to where	Health  5 4 3 2 1	5		3	2	1	1 4 5 5 5
the right priority site rank	t, along wi scores, to king. N/A	th the two determine the refers to where	Health5 4 3 2	5	4	3	2	1	1
the right priority site rank there is	t, along wi scores, to king. N/A no applica	th the two determine the refers to where	Health  5 4 3 2 1	1 1 1 2 2 3	1 2 2 3 3 4	3 1 2 3 4 4 5	1 2 4 4 5 5	1 3 4 5 5 5	1 4 5 5 5 5
the right priority site rank there is DRAFT /	t, along wi scores, to king. N/A no applica "FINAL"	th the two determine the refers to where able pathway.	Health  5 4 3 2 1 N/A	5 1 1 2 2 3 No Fu	1 2 2 3 3 4	3 1 2 3 4 4 5	2 1 2 4 4 5 5	1 3 4 5 5 5	1 4 5 5 5 5 5
the right priority site rank there is DRAFT /	t, along wi scores, to king. N/A no applica "FINAL" "bin") Rank	th the two determine the refers to where able pathway.	Health  5 4 3 2 1 N/A  or on of this sext higher because, unlikely	1 1 1 2 2 3 No Fo	1 2 2 3 3 4 4 with	3 1 2 3 4 4 5 5	2 1 2 4 4 5 5 5	1 3 4 5 5 5	1 4 5 5 5 5 5

#### WORKSHEET 1 SUMMARY SCORE SHEET

5	3	G	E	0	V	3	
IM		JUN	2	5	199		

Site Name:

Exxon "Big B" Mini-Mart

DEPARTMENT OF ECOLOGY CENTRAL REGION OFFICE

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

1611 Canyon Road Ellensburg, WA

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

This gas station was discovered to have USTs with diesel fuel leaking while pit was excavated to install another tank in October 1990. Contaminated soil was removed and stockpiled, and has been disposed offsite. Spill occurred from break in pipe from diesel and unleaded gasoline tanks. Contaminated soil and ground water documented.

Quantity: 24,000 gallons, based on once-filled capacity of tanks. Could have used 60 yds³ of contaminated soil, but this has been removed.

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)

Air route not scored - site paved.

**BOUTE SCORES**:

HOUTE GOOMES.				
Ground Water/Human:	48.7	Overall Rank:		:
Surface Water/Human:	1.3			
Air/Human:	ns		8	

Air/Environmental: ns\_\_\_\_ns\_\_

Surface Water/Environmental: 2.6

### WORKSHEET 2 ROUTE DOCUMENTATION

	*
SURFACE WATER ROUTE	
List substances to be considered for scoring.	Source:
Naphthalene (TAHasdiesel)	\$
Explain basis for choice of substances to be used in scoring.	
- substances measured insoil + groundwater - contents of tanks	e ac
List management units to be considered in scoring:	Source:
- UST S/piping - contaminated soil	
Explain basis for choice of unit used in scoring.	-
	ē
AIR ROUTE	
AIR ROUTE	
AIR ROUTE  List substances to be considered for scoring.	Source:
	Source:
List substances to be considered for scoring.  BTEX Naphthalene (TPH as diesel)  Explain basis for choice of substances to be used in scoring.	Source:
List substances to be considered for scoring.  BTEX Naphthalene (TPH as diesel)  Explain basis for choice of substances to be used in scoring.	Source:
List substances to be considered for scoring.  BTEX Naphthalene (TPH as diesel)  Explain basis for choice of substances to be used in scoring.	Source:
List substances to be considered for scoring.  BTEX Naphthalene (TPH as diesel)  Explain basis for choice of substances to be used in scoring.  See about  See about	•

## WORKSHEET 2 (CONTINUED) ROUTE DOCUMENTATION

	' _	201
GROUND WATER RO	OUTE	
List substances to be <u>considered</u> for scoring.  BTEX  Naphthalene (TPH as diese)	) *-	Source:
Explain basis for choice of substances to be used in scoring.		*
see surface water	× 2.5	
List management units to be considered in scoring:		Source:
Contaminated Soul Explain basis for choice of unit used in scoring.		
		e e
		*
		•
*	ĕ	· ·
a a		

# WORKSHEET 3 SUBSTANCE CHARACTERISTIC WORKSHEET FOR MULTIPLE UNIT/SUBSTANCE SITES

	Combination 1	Combination 2	Combination 3
Unit: Substance:	9		na na
AIR ROUTE		a	
Human Toxicity/Mobility Value:		a a	ī.
Environmental Toxicity/ Mobility Value:		e -	
Containment Value:		e .	·
Air Human Subscore:			
Air Environmental Score:		e e	¥
SURFACE WATER ROUTE			
Human Toxicity Value:	. \		
Environmental Toxicity Value:			
Containment Value:			
Surface Water Human Subscore:			,
Surface Water Environmental Subscore:			
GROUND WATER ROUTE			
Human Toxicity/Mobility Value:			-
Containment Value:	8	. \	
Ground Water Subscore:			
2 20 20 E			
	,	,	
		65	

#### WORKSHEET 4 SURFACE WATER ROUTE

1.0	SUBST	ANCE CHA	RACTERIS	STICS						
1.1	Human	Toxicity							s.	
Substance		Drinking Water S	td.	Chronic Toxicit	У		Acute Toxicit		Carcinog Poten	cy .
		(µg/l)	Value	mg/kg/day	Value		mg/kg-bw	Value	WOE Fac	tor Value
1. Kencer 2. Taluen 3. Xylven 4. Naphtho 5.	e	÷	4206		MOLO		e <u>s</u>	3		0000
								Hio	Source: hest Value:	
									nus Points?:	2
			B				*		Value:	12
1.2	Environ	mentalTox	cicity		10		2	Source	e:_/_ Va	lue: 2
Substar	nce '	Acute Crit (µg/L)		-human mam e toxicity (m			Value			
1. Et hagle 2. Tolue 3. Xyler 4. Naph 5. 6.	ne				3	7	2202	ti e		
1.3	Substa Explain	nce Quanti basis: Z	ty 14000 q	allons				Sourc	ce: Va	lue: <u>5</u>
2.0	MICDV.	TION POTE	ENITIAI							
2.0 2.1	Contair		-1411VP	50				Source	e: Val	ue: O
۷. ۱			1000-1-	md tan	U <		(16)	200,00		·
	Cybiail i	Lasis. W	a . E	could in	der -	lux	ing diese	re cove	Ny oper	alione
2.2	Surface	Soil Perm	eability <	and srun	. P - In	1	)	Source	e:/_ Val	ue:
2.2				<10					e: _/_ Val	
				pitation: O.					e: Val	
2.4				pitation: <u>o,</u>					e: 1 Val	
2.5				U					e: Val e: _]_ Val	**
2.6	rerrain	Siohe:	5.21	<u> </u>	7			30010	· var	

#### WORKSHEET 4 (CONTINUED) SURFACE WATER ROUTE

3.0	TARGETS	
3.1	Distance to Surface Water: 625 ft	Source: / Value: 10
3.2	Population Served within 2 miles: None downstream	Source: / Value: O
3.3	Area Irrigated by Sources within 2 miles: Nace downstream	Source: _/_ Value: _O
3.4	Distance to Fishery Resource: 4000 Ft- Jahma Rever	Source: / Value: 6
3.5	Distance to Sensitive Environment: 4000 ft - Yalum Rever	Source: Value: 6
0.0	List:	
福	<del></del>	*
4.0	RELEASE	· ·
	Explain basis: No evidence - did not	Source: Value:
32	use odease to "swampy and "-unsure	<del></del> ,
	what blus was -	
		ğ
#		
	en e	
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		e.
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		×
		0 S 0
*2	e see	
508		ii .
	6	

### WORKSHEET 5 (CONTINUED) AIR ROUTE



1.0	SUBS	TANCE CHA	RACTERIST	īcs		160	J.			÷	£0
1.1	Introd	uction - plea	se review be	efore scorir	ng				er er		
1.2	Huma	n Toxicity									
	*										
Substance		Air Std. μg/m <sup>3</sup>	V-t	Chronic Toxici			Acute Toxicity	Value	WOE	arcinogencit Potency Factor	
**		μg/m	Value	mg/kg/day	Value		mg/kg-bw	Value	WOE	ractor	Value
1. 2.			1				\$6				
2. 3. 4. 5.			İ			-			ž.		
5. 6.						*					
Source:					-			-			
Highest '	Value: _	s?:							34 25		
		sr	-								
\$1 000 00 000 000 000 000 000 000 000 00											
1.3	Mobili 1.3.1		Aobility:					× *			
	1.3.1	Gaseous N Vapor Pres	ssure:					Source	e:		
		Value:								-	
	1.3.2	Particulate	Mobility					Sourc	e:		
		Erodibility:		,				Oourc	,6,	₹.	
		Climatic Fa	actor:								
		Particulate	Mobility Po	tential \	Value: _				<b>X</b>		
1.4	Final I	Human Healt	h Toxicity/M	lobility Mat	rix:		8			Value	<b>.</b>
4.5	Facility.			1561							
1.5	Enviro	nmentalTox	icity/Mobility								
-		•		-			19	-1			
Cubot	0000		n mammalia			Mobility	Volue			20	
Subst	ance	Acute Toxi	city	Value		Mobility	Value				
1. 2.											*
3.								, ,			
4.			5 8								
5. 6.		3									<i>w</i> .
0.											
i		80.58		2.2		4					
	Enviro	nmental Tox	icity Mobility	Matrix:				Source	∍:	Value	·
1.6	Subst	ance Quantit	y:	51 							
								Source	e:	Value	!

## WORKSHEET 5 AIR ROUTE

2.0	MIGRATION POTENTIAL	October Webser
2.1	Containment:	Source: Value:
		• -
3.0	TARGETS	
3.1	Nearest Population:	Source: Value:
3.2	Nearest Sensitive Environment:	Source: Value:
	List:	-
		- *
3.3	Deputation within 1/2 miles	Source: Volum
3.3	Population within 1/2 mile:	Source: Value:
4.0	RELEASE:	Source: Value:
	2	n n
	*	*
	*	
	4,	
	*	
	9	

# WORKSHEET 6 GROUND WATER ROUTE

#### SUBSTANCE CHARACTERISTICS 1.0

#### **Human Toxicity** 1.1

Substance	Drinking Wate	er Std.	Chronic Toxicit	ty	Acute Toxicity			cinogencit Potency	54
-	(µg/l)	(µg/l) Value mg/kg/day Value	Value	mg/kg-bw	Value	WOE	Factor	Value	
Ethylberrane		420		3)3		l 1		*	000
Northhalene		le		10	#	3			00

	(μ9/1)	value	mg/kg/day	value	mg/kg-bw	value	WOE	Factor	value
1. Ethylberro 2. tophene 3. xylene 4. Norphthal 6.	,	4206		MAROLO	e e	3	ē.		0000
32	a a					Source: Highest Value: \			
						+2 Bonus Points?: 2			
	· EB	2	6:		× ×		Va	llue:	12
1.2	Mobility 🏷	2							
	Substance:					Source	e:	Value	
					10				
	Substance Quantit	-	625		ar •	Source	e:	Value	:_5_
<u> </u>	Explain basis: 24,000 gallons-								
-									
	MIGRATION POTENTIAL								
	Containment  Explain basis: Spulled I rated							Value:	10
<u> </u>	Explain basis:	pulla,	realied			*			10 10
2.2	Net Precipitation:O,   ın							Value:	_1
2.3	Subsurface Hydraulic Conductivity: 10-2						1_	Value:	4
	Vertical Depth to Ground Water:							Value:	8
	*							57	
	TARGETS								
3.1	Ground Water Usage: Public private with alternate source						e:	Value	:
	Distance to Nearest Drinking Water Well: 1300-2600						-		3
3.3 F	Population Served with 2 miles: 2732								52
3.4	Area Irrigated by Wells within 2 miles:						e:	Value	10
					0. 15				
	RELEASE	Α. Α	0 0		e,				_
E	Explain basis: 🖺	ralytica	1 ende	nce		Source	e:	Value	:_5
1.7									

#### WORKSHEET 7 SOURCES USED IN SCORING

- 1. EXXON Big B SHA, May 1991
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.