### WORKSHEET 1 Summary Score Sheet

SITE INFORMATION:

Name:Smith-Kem FacilityAddress:200 Railroad AvenueCity:EllensburgCounty: KittitasSection:02Township:17 NorthRange:18 EastLatitude:46° 59' 27.00"Longitude:FS ID #:12832256

Site scored/ranked for the August 20, 2008 update

August 13, 2008

### SITE DESCRIPTION (management areas, substances of concern, and quantities):

The Smith-Kem Facility (Site) comprises about 2.3-acres, and began as a petroleum business in 1923. Agricultural spray services were added in about 1948. The site contains multiple aboveground storage tanks for chemical storage, as well as buildings used for storage and business operations.

Limited site characterization activities occurred in July 2007 as a result of an interested purchaser inquiry. Fourteen test pits were excavated to characterize soil and groundwater at the site. Soil samples collected from the test pits were analyzed for NWTPH – HCID and/or NWTPH – Dx. Laboratory analysis of soil samples identified diesel-range hydrocarbons above the Model Toxics Control Act Method A soil cleanup levels in two test pits. Laboratory analysis of water collected from the bottom of test pit bottoms identified elevated levels of diesel-range hydrocarbons.

The submitted report does not discuss why collected samples weren't analyzed for possible pesticides, herbicides, and/or insecticide impact.

#### **SPECIAL CONSIDERATIONS:**

Due to the significant contamination documented onsite being primarily subsurface, the surface water and air routes are not applicable for WARM scoring for this site. Thus, only the groundwater route will be scored.

#### **ROUTE SCORES:**

Surface Water/Human Health:	NS	Surface Water/Environmental.:	NS
Air/Human Health:	NS	Air/Environmental:	NS
Groundwater/Human Health:	51.5		
		<b>OVERALL RANK:</b>	3

# WORKSHEET 2 Route Documentation

1.	Su	RFACE WATER ROUTE	
	a.	List those substances to be <u>considered</u> for scoring:	Source:
	b.	Explain basis for choice of substance(s) to be <u>used</u> in scoring.	
	c.	List those management units to be <u>considered</u> for scoring:	Source:
	d.	Explain basis for choice of unit to be <u>used in scoring</u> :	
2.	AI	R ROUTE	
	a.	List those substances to be <u>considered</u> for scoring:	Source:
	b.	Explain basis for choice of substance(s) to be <u>used</u> in scoring.	
	c.	List those management units to be <u>considered</u> for scoring:	Source:
	d.	Explain basis for choice of unit to be <u>used in scoring</u> :	
3.	GI	ROUNDWATER ROUTE	
	a.	List those substances to be <u>considered</u> for scoring:	Source: <u>1,2</u>
		Diesel-range hydrocarbons	
	b.	Explain basis for choice of substance(s) to be <u>used</u> in scoring:	
		Analytical results indicate diesel concentrations in excess of MTCA groundwater cleanup levels	A Method A soil and
	c.	List those management units to be <u>considered</u> for scoring:	Source: <u>1,2</u>
		Groundwater and subsurface soil	
	d.	Explain basis for choice of unit to be <u>used</u> in scoring:	
		Release to groundwater	

## WORKSHEET 6 Groundwater Route

### **1.0** SUBSTANCE CHARACTERISTICS

Carcino WOE	genicity	Valua		
WOE	DE*	Valua		
	PF*	Value		
ND	ND	-		
Source: <u>1-4</u>				
Highest Value: <u>5</u>				
(Max = 10)				
Plus 2 Bonus Points? <u>0</u>				
Final Toxicity Value: <u>5</u>				
	(Max = 12)			
] i	ND Sou hest V us Po city V	ND ND   Source: 1-4   hest Value: 5   (Max = 10) us Points? 0   city Value: 5 (Max = 12)		

<b>1.2</b> Mobility (use numbers to refer to above li	isted s	ubstances)
Cations/Anions [Coefficient of Aqueous Migration (K)]	OR	Solubility (mg/L)
1=	1=	$3.0 \times 10^1 = 1$
		Source: 134



1.3 Substance Quantity:	
<b>Explain basis:</b> Unknown – use default value = 1	Source: <u>1,4</u>
	Value: <u>1</u>
	(Max=10)

### 2.0 MIGRATION POTENTIAL

		Source	Value
2.1	Containment (explain basis): Spill/discharge to surface soil, no cover	1,2,4,5	<b>10</b> (Max = 10)
2.2	<b>Net precipitation:</b> 6.5" – 4.5" = 2.0"	4,6	<b>1</b> (Max = 5)
2.3	Subsurface hydraulic conductivity: Sandy Gravel	1,4	<b>4</b> (Max = 4)
2.4	<b>Vertical depth to groundwater:</b> Release to groundwater = 0'	1,4	<b>8</b> (Max = 8)

### 3.0 TARGETS

		Source	Value
3.1	<b>Groundwater usage:</b> Public supply, but alternate sources available with minimum hookup requirements	4,8,9	<b>4</b> (Max = 10)
3.2	<b>Distance to nearest drinking water well:</b> <u>1,400</u> feet	4,8,9	<b>3</b> (Max = 5)
3.3	<b>Population served within 2 miles:</b> $\sqrt{pop.} = >10,000$	4,8,9	<b>100</b> (Max = 100)
3.4	Area irrigated by (groundwater) wells within 2 miles: (0.75)* $\sqrt{\#}$ acres = >4,500	4,8,9	<b>50</b> (Max = 50)

### 4.0 **Release**

	Source	Value
Explain basis for scoring a release to groundwater: Analytical results		E
collected of water collected from test pits confirm a release to groundwater has	1,4	$\mathbf{S}$ (Max - 5)
occurred		(Max = 5)

### Sources Used in Scoring

- 1. *Limited Site Characterization Report*, Sage Environmental, July 2007.
- 2. Early Notice Letter to site owner, Dick Bassett, Washington Department of Ecology, June 2, 2008.
- 3. Bassett, Dick. Personal Communication. 5 June 2008.
- 4. Washington State Department of Ecology, Toxicology Database for Use in Washington Ranking Method Scoring, January 1992.
- 5. Washington State Department of Ecology, WARM Scoring Manual, April 1992.
- 6. Washington Climate Net Rainfall Table.
- 7. Washington State Department of Ecology, Water Rights Application System (WRATS) printout for two-mile radius of site.
- 8. Washington State Department of Health, SADIE Database printout for public water supplies.