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## WORKSHEET 1 SUMMARY SCORE SHEET

Note: This document currently has no provision for sediment route scoring.

Site Name/Location (Street, City, County, Section/Township/Range). Geiger Field Housing Area 3600 South Spotted Rd NW1/4 of Section 33, Township 25N, Range 42 EWM

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

Historically the Geiger Field Housing Area was military family housing for US Air Force personnel at Fairchild Air Force Base. Currently the housing area is vacant and boarded up. The housing area is comprised of duplex and single family homes. The housing area is located south of Spokane International Airport and Geiger Correctional Facility, west of the Spokane Waste to Energy Refuse Facility, and north of Interstate 90 and Geiger Boulevard.

On November 7, 1996, the Department of Ecology (Ecology) received a report on excavation and removal of underground storage heating oil tanks conducted in 1992 at the Geiger Field housing Area. The report revealed multiple releases of diesel fuel oil at this site. Soil and ground water samples obtained following tank removal contained diesel fuel contamination in excess of Model Toxics Control Act standards (up to 160 ppm in ground water and up to 62,000 ppm in soil).

Special Considerations (Include limitations in site file data or data which cannot be accommodated in the model, but which are important in evaluating the risk associated with the site, or any other factor(s) over-riding a decision of no further action for the site): Partial remediation of contaminated soil has occurred at the site with remaining contamination under structures. Quantity of contaminant remaining on site is unknown.

#### **ROUTE SCORES:**

Surface Water/Human Health: <u>NA</u> Surface Water/Environ.: <u>NA</u>

Air/Human Health: <u>NA</u> Air/Environmental: <u>NA</u>

Ground Water/Human Health: 28.1

OVERALL RANK: 5

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# WORKSHEET 2 ROUTE DOCUMENTATION

- 1. SURFACE WATER ROUTE Not Applicable.

  Contamination is restricted to subsurface soils
- 2. AIR ROUTE Not Applicable.

  Contamination is restricted to subsurface soils

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## WORKSHEET 2 (CONTINUED) ROUTE DOCUMENTATION

#### 3. GROUND WATER ROUTE

List those substances to be <u>considered</u> for scoring: Source: 1

Diesel fuel #2 (heating oil)

Explain basis for choice of substance(s) to be <u>used</u> in scoring.

Documentation of heating oil release into soil and shallow ground water following underground tank decommissioning.

List those management units to be <u>considered</u> for scoring: Source: 1 Contaminated ground water and subsurface soil.

#### Explain basis for choice of unit to be <u>used</u> in scoring.

This site is scored on the basis that the contaminant was detected at concentrations exceeding MTCA cleanup levels in soil and ground water (160 ppm ground water, 62,000 ppm soil).

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# WORKSHEET 6 GROUND WATER ROUTE

### 1.0 SUBSTANCE CHARACTERISTICS

1.1 Human To	xicity						
Substance 1. TPH-Diesel 2. 3. 4. 5.	Drinking Water Standard (ug/l) Val. 20 6	Acute Toxicity (mg/kg-bw) Val. 490 5	Chronic Toxicity (mg/kg/day 0.004	<u>) Val.</u> 3	Carcino genicit <u>WOE</u> *	ty _	<u>Va</u> NE
*Potency Factor			Source's: 6 & Highest Valuonus Points?_ Toxicity Value	e: <u>6</u> 0			
•	ons:	to refer to above			<u>&amp; 7</u> Val	lue:_	<u>1</u>
<u>approxima</u>	s: <u>estima</u> ate square fo	te of soil contam ootage of four dy hich equals 800	velling units @	on 1800	 <u>) each</u>	3_	

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### 2.0 MIGRATION POTENTIAL

	Containment Source: 7 Value: 10  Explain basis: Spills, Discharges, and Contaminated Soil
2.2	Net Precipitation: 7.2 inches Source: 7 & 8 Value: 1
2.3	Subsurface Hydraulic Conductivity: > 10 <sup>-5</sup> to 10 <sup>-3</sup> Source: 7 & 9 Value: 3
2.4	Vertical Depth to Ground Water: 0 feet Source: 1 & 4 Value: 8
3.0	TARGETS
3.1	Ground Water Usage: Public supplies/alternative available Source: 3 & 7 Value: 4
3.2	(Max.=10) Distance to Nearest Drinking Water Well: > 600 - 1,300 ft Source: 3 & 4 Value: 4
3.3	Population Served within 2 Miles: $\sqrt{\text{pop.}} = \sqrt{975} = 31$ Source: 3 & 4 Value: 31  (Max. = 100)
3.4	Area Irrigated by (Groundwater) Wells within 2 miles: $0.75\sqrt{\text{no. acres}} = 97$ Source: $5$ Value: $7$ $0.75\sqrt{97} = 0.75 (10) = 7.4$
<i>1</i> 0	RELEASE
E	Explain basis for scoring a release to ground Source: 1 & 7 Value: 5  water: Reference to shallow ground water encountered during tank removal and subsequent ground water test at 160 ppm exceeding MTCA and drinking water standards

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#### **SOURCES USED IN SCORING**

- Site Assessment Report for UST Decommissioning Fairchild AFB, Geiger Field Military Housing Areas, Spokane, Washington.
  - E. P. Johnson Construction and Environmental, Inc. March 1993
- 2. Aquifer Sensitive Overlay Zone Map, Spokane County, Washington
- 3. Washington State Department of Health Drinking Water Information Network
- 4. Washington State Department of Ecology (Ecology) Well Logs
- 5. Ecology Water Resource Inventory Area (WRIA) System Data Base
- 6. Toxicology Data Base Washington Ranking Method (WARM)
- 7. WARM Scoring Manual
- 8. Washington Climate, Spokane County, WSU Dept. of Agriculture
- 9. Soil Survey of Spokane County Washington. USDA Soil Conservation Svc.
- 10. Ecology Letter: Initial Investigation Report on Review of Tank Removal January 9, 1997