476Z

#### WORKSHEET 1 SUMMARY SCORE SHEET

Site Name/Location (Street, City, County, Section/Township/Range, TCP ID Number):

Cle Elum Petroleum ContaminationS - 26SW corner of First Street and Billings AvenueT - 20NCle Elum, WA 98922R - 15E

TCP ID#. C-19-2007-000

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

The CleElum Petroleum Contamination site is located in the southwest corner of First Avenue and Billings Street, bordering the Timber Lodge Motel at 301 West First Street in CleElum. The initial complaint came from a U.S. West crew that was trenching for a phone line in November of 1991. The crew encountered approximately one inch of free petroleum product in the hole. The motel was formerly a gas station and the pumps had been located about 10 feet from the excavation. Across the street to the east is a Texaco station.

The Department of Ecology responded to the scene and observed petroleum contaminated soil approximately 10 feet down from the surface of the hole. The hole also contained water that had been contaminated with petroleum.

The soil from the excavation trench was stockpiled and sampled later. The analyses showed TPH-gas at 690 ppm and TPH-Diesel at 640 ppm. Both analysis exceed MTCA cleanup levels. The stockpiled soil have been removed from the site. There is documentation to show that the soil were properly disposed of.

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):

Since the remaining contamination is entirely subsurface, only the groundwater route is applicable to this site.

This site hazard assessment was conducted using the information obtained from the trenching activities that occurred in the city right-away. The Department of Ecology is in the process of conducting a city wide investigation of subsurface contamination. Numerous wells were recently installed within the city and one well was installed between the former trench site and the motel. This well is awaiting groundwater sampling by the Department of Ecology.

RO	UTI	E SC	<b>ORE</b> S	S:

Surface Water/Human Health:NSSurface Water/Environ.:NSAir/Human Health:NSAir/Environmental:NSGround Water/Human Health:44.3/

OVERALL RANK: <u>3</u>

#### WORKSHEET 2 ROUTE DOCUMENTATION

## **1. SURFACE WATER ROUTE**

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

Not applicable/not scored

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

List those management units to be <u>considered</u> for scoring:

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

#### 2. AIR ROUTE

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

Not applicable/not scored

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

List those management units to be <u>considered</u> for scoring:

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

Source:<u>NS</u>

Source:\_\_\_\_\_

Source:\_\_\_\_\_

Source: <u>NS</u>

Source:\_\_\_\_\_

Source: \_\_\_\_

# WORKSHEET 2 (CONTINUED) ROUTE DOCUMENTATION

#### 3. GROUND WATER ROUTE

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

Source: 13\_\_\_\_\_

TPH as gas and TPH as diesel

Explain basis for choice of substance(s) to be used in scoring.

TPH as gas and diesel was detected at elevated concentrations in subsurface soils above MTCA.

List those management units to be <u>considered</u> for scoring:

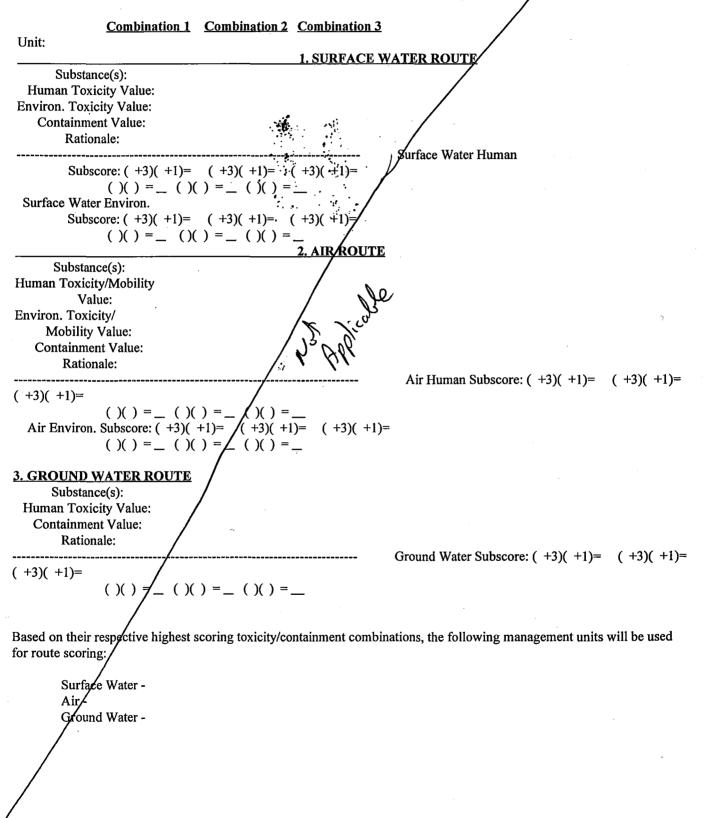
Source: 13

Contaminated subsurface soil

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

During excavation of a trench by the phone company, the crew encountered petroleum contaminated soil approximately 10 feet down from the surface of the hole. The hole contained water that had a 1 inch layer of free petroleum product.

## WORKSHEET 3 (If Required) SUBSTANCE CHARACTERISTICS WORKSHEET FOR MULTIPLE UNIT/SUBSTANCE SITES



# WORKSHEET 6 GROUND WATER ROUTE

#### 1.1 Human Toxicity -----\_\_\_\_\_ Drinking Water Chronic Carcino-Acute Toxicity Standard Toxicity genicity WOE PF- Val. Substance (ug/l) Val. (mg/kg-bw) Val. (mg/kg/day) Val. 1. TPH as diesel 20 6 490 5 0.004 3 2. TPH as gas 5 8 3306 3 1.0 .029 3 --3. 4. 5. 6. Source: 1 Highest Value: 8 (Max.=10) Potency Factor +2 Bonus Points? Final Toxicity Value: <u>10</u> (Max.=12) 1.2 Mobility (Use numbers to refer to above listed substances) Source: 2 Value: 3 (Max.=3) Cations/Anions: <u>1= ; 2= ; 3= ; 4= ; 5= ;</u> 6= . OR Solubility(mg/l): <u>1=30 mg/L=1</u>; <u>2=1,800 mg/L</u>; <u>3=</u>; <u>4=</u>; 5:= 6=. Source: <u>13</u> Value: <u>1</u> (Max.=10) 1.3 Substance Quantity: unknown amount Explain basis:\_\_\_\_\_ 2.0 MIGRATION POTENTIAL Value: <u>10</u> (Max.=10) 2.1 Containment Source: 2 Explain basis: <u>contaminated soils are assigned</u> a containment value of 10 under WARM Value: <u>3</u> (Max.=5) 2.2 Net Precipitation: 26.0 inches Source: 5 2.3 Subsurface Hydraulic Conductivity: $\geq 10^{-3}$ Value: 4 (Max.=4) Source: <u>4, 7</u> Value: 8 (Max.=8) 2.4 Vertical Depth to Ground Water: <u>10</u> feet Source: <u>13</u>

**1.0 SUBSTANCE CHARACTERISTICS** 

. .

## WORKSHEET 6 (CONTINUED) GROUND WATER ROUTE

#### **3.0 TARGETS**

3.1 Ground Water Usage: <u>Private alternative sources available with minimum</u> hookup.	Source: 2_	Value: <u>4</u> (Max.=10)
3.2 Distance to Nearest Drinking Water Well: <u>5000</u> ft	Source: <u>3</u>	Value:2 (Max.=5)
3.3 Population Served within 2 Miles: $\sqrt{pop.=\sqrt{213}} = 14.5$	Source: <u>3</u>	Value: <u>15</u> (Max.=100)
3.4 Area Irrigated by (Groundwater) Wells within 2 miles: $0.75\sqrt{no.acres=9}$ $0.75\sqrt{9} = 0.75(3) = 2.25$	Source: <u>11</u>	Value: 2 (Max.=50)
4.0 RELEASE Explain basis for scoring a release to ground water: <u>Visual inspection by Department of Ecology</u>	Source: <u>12</u>	Value: <u>5</u> (Max.=5)

#### SOURCES USED IN SCORING

1. Washington Department of Ecology, Toxicology Database for use in WARM Scoring, January 1992.

2. Washington Department of Ecology, WARM Scoring Manual April 1992.

3. USGS 7.5 minute Topographic Quadrangle - Cle Elum - Washington.

4. USDA Soil Conservation Survey, Soil Survey of Kittitas County.

5. Washington Climate for Kittitas County, May 1979.

6. NOAA Atlas 2, Volume IX, Isopluvials of 2 yr., 24 hr precipitation in tenths of an inch, US Dept. Of Commerce.

7. Kittitas County Department of Solid Waste Site Hazard Assessment Field Investigations, May 16 and June 10, 1996.

8. National Wetland Inventory, map Cle Elum, Washington

9. Water Well Report, State of Washington.

10. Sole Source Aquifers in the State of Washington, EPA 1995.

11. Water Rights Information System, Washington Department of Health, Spokane.

12. Site inspection by Department of Ecology on November 25, 1991.

13. Results of analyses of the soil samples from the stockpiled soils from trench excavation, November 20, 1991.