THURSTON COUNTY
WASHINGTON
SINCE 1852

COUNTY COMMISSIONERS
Judy Wilson
District One
Diane Oberquell
District Two
Dick Nichols
District Three

PUBLIC HEALTH AND
SOCIAL SERVICES DEPARTMENT

Patrick M. Libby, Director
Diana T. Yu, MD, MSPH
Health Officer

February 5, 1997

File Name _____
County Thurston
File Type TCP
Your Name Heggen

Ms. Zelma Zieman
Environmental Manager, Washington
US West Communications
1600 - 7th Avenue, Room 2013
Seattle, WA 98191

Dear Ms. Zieman:

The Thurston County Health Department has completed the site hazard assessment (SHA) of the US West-Capital Peak site, as required under the Model Toxics Control Act. This site's hazard ranking, an estimation of the potential threat to human health and/or the environment relative to all other Washington state sites assessed at this time, has been determined to be a 5, where 1 represents the highest relative risk and 5 the lowest.

For your information, Ecology will be publishing the ranking of this and other recently assessed sites in the February 18, 1997 Special Issue of the Site Register. The site hazard ranking will be used in conjunction with other site-specific considerations in determining Ecology's priority for future actions.

Please contact me at (360) 754-4111 ext. 7322 if you have any questions relating to the SHA of your site. If you have any inquiries/comments about the site scoring/ranking process, please call Michael Spencer at (360) 407-7195. For inquiries regarding any further activities at your site now that it is on Ecology's Hazardous Sites List, please call Dick Heggen at (360) 407-6267.

Sincerely,

Donna S. Freier

Donna S. Freier
Hazardous Waste Specialist

cc: Michael Spencer, Washington Department of Ecology
Dick Heggen, Ecology SWRO TCP

CSID 9623

Feb 1997

WASHINGTON RANKING METHOD

ROUTE SCORES SUMMARY AND RANKING CALCULATION SHEET

Site name: US West-Capital Peak Communication Facility Region: SWRO

Street, city, county: Capital Peak, Thurston County, Washington T17N, R4W, Section 11

Ecology TCP ID: S-34-6194-000

This site was (X) ranked, ( ) re-ranked, on_____ based on quintile values from a total of ____ assessed/scored sites.

Pathway	Route Score(s)	Quintile Group number(s)	Priority scores:
SW-HH	0		$(H^2 + 2M + L)/8$ = 0.1 → 1
Air-HH	0		
GW-HH	27.7	1	
SW-En	0		$(H^2 + 2L)/7$ = N/A
Air-En	0		

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 (e.g. typically with ground water route-only sites).

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

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.
_____ right in the middle, unlikely to ever change.
X almost into the next lower bin.

WORKSHEET 1
SUMMARY SCORE SHEET

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

U.S. West-Capital Peak Communication Facility
Capital Peak, Thurston County, WA
T17N, R4W, Section 11
Ecology Site No. S-34-6194-000

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

In December 1993, a 500-gallon, #1 diesel fuel above-ground storage tank was installed to replace an underground storage tank (same size and fuel) that had been decommissioned (by removal) in August 1993. In May 1994, a diesel spill was discovered that originated from the AST pipeline. The spill resulted from incorrectly installed piping (no anti-siphon valve) and occurred between the tank and the generator. An estimated 150 to 175 gallons of diesel fuel was spilled into the ground (from inside of an unlined and buried trench). Contaminated soil was identified at the US West fenceline and on adjacent Weyerhaueser property.

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):

As a note, the UST that was decommissioned in August 1993 had leaked and as a result was decommissioned. Contaminated soil was over-excavated to below MTCA cleanup levels as reported in a November 3, 1993, report for Ecology Site No. 010431.

Due to the primarily subsurface nature of any remaining on-site soil contamination, the groundwater migration route is the only applicable route to score for WARM ranking purposes.

ROUTE SCORES:

Surface Water/Human Health: N/A
Air/Human Health: N/A
Ground Water/Human Health: 27.7

Surface Water/Environ.: N/A
Air/Environmental: N/A

OVERALL RANK: 5

WORKSHEET 2
ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE
Surface water route not applicable to site, and thus not scored.

2. AIR ROUTE
Air route not applicable to site, and thus not scored.

3. GROUND WATER ROUTE

List those substances to be considered for scoring: Diesel fuel Source: 1

Explain basis for choice of substance(s) to be used in scoring.
Soil and groundwater samples confirm the presence of diesel at concentrations that exceed MTCA cleanup levels.

List those management units to be considered for scoring: Source: 2, 3
Shallow surface soil, subsurface soil and groundwater

Explain basis for choice of unit to be used in scoring.
Analytical data confirm the continued presence of diesel in soil and groundwater.

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

Worksheet 3 not required.

WORKSHEET 4
SURFACE WATER ROUTE

Worksheet 4 not required.

WORKSHEET 5
AIR ROUTE

Worksheet 5 not required.

WORKSHEET 6
GROUND WATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

Substance	Drinking Water Stnd.		Acute Toxicity		Chronic Toxicity		Carcino-genicity		
	µg/L	Value	mg/kg -bw	Val	mg/ kg/day	Val	WOE	PF*	Val
Diesel		6		5		3			ND

*Potency Factor

Source: 4 - TPH as Diesel (from naphthalene) Highest Value: 6 (Max.=10)

+2 Bonus Points?___

Final Toxicity Value: 6 (Max.=12)

1.2 Mobility (Use numbers to refer to above listed substances)
Solubility(mg/l): Diesel present as product on groundwater = 3 **Value: 3**

1.3 Substance Quantity: 150 - 175 gallons Source: 1 **Value: 1** (Max.=10)

Explain basis: As indicated in Ecology spill report, usage meter was installed wrong; quantity released is an estimate.

2.0 MIGRATION POTENTIAL

2.1 Containment: Spill Source: 1 **Value: 10** (Max.=10)
Explain basis: Discovery of pipeline leak.

2.2 Net Precipitation: 29.9 inches Source: 5 **Value: 3** (Max.=5)

2.3 Subsurface Hydraulic Conductivity: $> 10^{-5}$ to 10^{-3} cm/sec Source: 2 **Value: 3** (Max.=4)

2.4 Vertical Depth to Ground Water: < 9 feet Source: 3 **Value: 8** (Max.=8)

3.0 TARGETS

3.1 Ground Water Usage: Resource not used, and questionably usable based on geologic conditions and "extremely slow" recharge. Source: 2 and 6 **Value: 2** (Max.=10)

3.2 Distance to Nearest Drinking Water Well: >10,000 ft Source: 7 **Value: 0** (Max.=3)

3.3 Population Served within 2 Miles: √pop. =√ 0 = 0 Source: 8 **Value: 0** (Max.=30)

3.4 Area Irrigated by (Groundwater) Wells within 2 miles: Source: 9 **Value: 0** (Max.=100)

0.75√no.acres= 0.75√0 =0.75 (0)= 0

4.0 RELEASE

Explain basis for scoring a release to groundwater: Source: 3 and 6 **Value: 5** (Max.=5)

Analytical data for 7 sampling rounds between October 26, 1994 and January 3, 1996 confirm the presence of diesel as product on the water table and in solution above MTCA cleanup levels. Approximately 3" of product were observed in groundwater retrieved by bailer from MW-1 during a site visit on Sept. 25, 1996. (Photos in file.)

SOURCES USED IN SCORING

1. DOE Environmental Report, SWRO, ID# S10849, August 17, 1994.

2. Letter of Transmittal (Data Summary) from Agra Earth & Environmental to US West Business Resources, Inc., dated 12/7/94. (Analytical soil data and geologic logs.)

3. Letter from Pemco to US West Communications dated December 13, 1995. (Comprehensive summary of analytical groundwater data from October 26, 1994 to October 24, 1995.)

4. Toxicology Database for Use in Washington Ranking Method Scoring, January 1992, 92-37.

5. "Table 16 - Estimated Evapotranspiration (Inches of water), E.M. 2462, Page 42" for Thurston County at Olympia Airport. Sum of (Precip-Ea(6)) for months of November through April.

6. Letter report from Pemco to USWest Communications dated January 17, 1996.

7. U.S.G.S. Topographic maps for Summit Lake, Washington, 7.5 minute series, 1981; Kamilche Valley, Washington, 7.5 minute series, 1981; and Rochester, Washington, 7.5 minute series, 1986.

8. State Department of Health Public Water Supply System Listing for Group A and B systems (excluding transient populations) within Township 17 N, Range 3 W, Sections 6 (SW¼), 7 (SW1/4 & NW1/4), and 18 (NW1/4); Township 17 N, Range 4 W, Sections 1, 2, 3, 4 (NE1/4 & SE1/4), 9 (NE1/4 & SE1/4), 10, 11, 12, 13, 14, 15, 16 (NE1/4), 22 (NE1/4), 23 (NW1/4 & NE1/4), and 24 (NW1/4); and Township 18 N, Range 4 W, Sections 34 (SW1/4 & SE1/4), 35 (SW1/4 & SE1/4), and 36 (SW1/4 & SE1/4).

9. Washington Department of Ecology Water Rights Information System, September 26, 1996, for Township 17 N, Range 3 W, Sections 6 (SW¼), 7 (SW1/4 & NW1/4), and 18 (NW1/4); Township 17 N, Range 4 W, Sections 1, 2, 3, 4 (NE1/4 & SE1/4), 9 (NE1/4 & SE1/4), 10, 11, 12, 13, 14, 15, 16 (NE1/4), 22 (NE1/4), 23 (NW1/4 & NE1/4), and 24 (NW1/4); and Township 18 N, Range 4 W, Sections 34 (SW1/4 & SE1/4), 35 (SW1/4 & SE1/4), and 36 (SW1/4 & SE1/4).

WASHINGTON RANKING METHOD SCORING PACKA

Input values from worksheets 4, 5, and 6 to these three spreadsheets. Press F9 to calculate scores

WORKSHEET 6
GROUND WATER ROUTE

US West-Capital Peak

SUBSTANCE CHARACTERISTICS	
Toxicity	6
Mobility	3
Substance Quantity	1
Containment	10
MIGRATION	
Net Precipitation	3
Hydraulic Conductivity	3
Depth to Ground Water	8
TARGETS	
Aquifer Usage	2
Nearest Well Distance	0
Population Served	0
Area Irrigated	0
RELEASE	5
GW ROUTE SCORE	27.7

SCORE SUMMARY	US West-Capital Peak
Surface Water Human Health	0.0
Air Human Health	0.0
Ground Water Human Health	27.7
Surface Water Environment	0.0
Air Environment	0.0

HUMAN HEALTH PRIORITY:

Select the high, middle, and low score from the three route scores for human health.

	US West-Capital Peak
High:	1.0
Medium:	0.0
Low:	0.0
Human Health Priority:	0.1

ENVIRONMENTAL PRIORITY:

Select the high and low score from the air and surface water routes for environment.

	US West-Capital Peak
High:	0.0
Low:	0.0
Environmental Priority:	0.0