CSID 689

WORKSHEET 1
SUMMARY SCORE SHEET

Site Name:

Inland Power & Light Spill
Section 11, Township 16 N, Range 43 EWM
TCP ID: E-38-3028-000 807
Facility Site ID: 807
Latitude: 46° 53 min 32.6 sec
Longitude: 117° 21 min 55.66 sec
Address Hwy 195 & Hwy 26
Colfax, Whitman County, WA 99111

Site Scored/Ranked: Feb. 16, 1999 update

Site Description:

This site is located approximately 120 feet above the Palouse River on a slope in excess of 50%. The roadside drainage systems of State Routes 26 and 195 follow the toe of the hillside below the site and are directly connected to the river. Soils are shallow (0 – 12" of silt loam over fractured basalt) and vegetation sparse, grasses and scattered shrubs interspersed with patches of bare soil and rock outcrops.

In the early 60s, a regulator station was retired. Unable to reach the station with heavy equipment, the decommissioning crew cut the poles allowing the regulators to hit the ground. This site was added to Ecology's Site Information System Listing in 1994 when the empty regulator ballast tanks were discovered by Inland Power and Light personnel. Although there was no visible evidence of a spill, the tanks were dry and lying on their sides indicating that 90 gallons of PCB-containing oil may have been released to the environment. Subsequent soil testing revealed concentrations of PCB's at the site above MTCA Method A cleanup levels for soil. No cleanup action was conducted.

Special Considerations:

Due to the depth to groundwater (>200'), the extreme permeability of the fractured-basalt stratum immediately underlying the soil, and the impermeability of the deep basalt strata confining the regional aquifer, contaminants spilled on the ground surface at this site could not reach the groundwater resource. For this reason, only the surface water route was considered for scoring.

The air route was not scored due to the low volatility of the PCB-oil mixture, the lack of surface soil contamination, and the isolated nature of the spill site.

PATHWAY SCORES:

Surface Water/Human Health: 23.6. Surface Water/Environ.: 59.3

Air: NA Ground Water: NA **OVERALL RANK: 3**

WORKSHEET 2
ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE.

List those substances to be considered for scoring: Source: 1A

PCBs

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

Analysis of spill site soil samples revealed PCBs in concentrations exceeding MTCA Method A Compliance Clean-up levels.

List those management units to be considered for scoring: Source: 1A

Contaminated soil

Explain basis for choice of unit to be used in scoring. Source: 1

Contaminated area limited to 50-75 square feet of soil. No evidence of overland flow. Groundwater confined by 200' of impermeable basalt.

2. AIR ROUTE. Not Applicable

3. GROUND WATER ROUTE Not Applicable

WORKSHEET 4
SURFACE WATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

Substance	Drinking Water Standard (ug/l)	Val.	Acute Toxicity (mg/kg-bw)	Val.	Chronic Toxicity (mg/kg/day)	Val.	Carcino-genicity WOE	PF	Val.
1. PCB's	.5	10	1315	3	ND	—	B2 (0.8)	7.7	
2.									
3.									
4.									

5.
6.

Source: 2

*Potency Factor Highest Value: 10

+2 Bonus Points? ✓

Final Toxicity Value 10

1.2 Environmental Toxicity

(X) Freshwater
( ) Marine

Substance	Acute Water Quality Criteria (ug/l)	Value	Non-human Mammalian Acute Toxicity (mg/kg)	Value
1. PCB's	2	8		
2.				
3.				
4.				
5.				
6.				

Source: 2 **Value: 8**

1.3 Substance Quantity 90 gals. Source: 1A **Value: 1**

1.4 Explain basis Estimate presented in PCB Accident/Spill Report submitted by Harvey Chamberlain and Rich Mock of Inland Power & Light.

2.0 MIGRATION POTENTIAL

2.1 Containment Source: 3 **Value: 10** Explain basis: Soil depth at spill site 0-12". Contaminants identified in surface soil samples. Site is located on a slope in excess of 50% with no run-on/run-off controls.

2.2 Surface Soil Permeability: .6-2.0 Low Source: 3 **Value: 5**

2.3 Total Annual Precipitation: 19.28 inches Source: 4 **Value: 2**

2.4 Max. 2-Yr/24-hour Precipitation: 1.4 inches Source: 5 **Value: 2**

2.5 Flood Plain: Not in Flood Plain Source: 6 **Value: 0**

x=750'

2.6 Terrain Slope: y=120' 16% Source: 7 **Value: 5**

3.0 TARGETS

3.1 Distance to Surface Water: 750' Source: 7 **Value: 10**

3.2 Population Served within 2 miles : 0 Source: **Value: 0**

3.3 Area Irrigated within 2 miles: 0 acres
Source: **Value: 0**

3.4 Distance to Nearest Fishery Resource: 750' Source: 7 **Value: 12**

3.5 Distance to, and Name(s) of, Nearest Sensitive Environment(s) Palouse River Source: 7 **Value: 12**

4.0 RELEASE

Explain basis for scoring a release to surface water: No documented release to surface water Source: 1 **Value: 0**

SOURCES USED IN SCORING

1. PCB Accident/Spill Report
1a. Soil sample test results submitted by Inland Power & Light

2. Toxicology Database, WARM

3. S.C.S. Soil Survey of Whitman County

4. Western Regional Climate Center database www.wrcc.sage.dri.edu

5. NOAA Atlas 2, Volume IX

6. USHUD Flood Insurance Rate Map (FIRM)

7. USGS Map, North Colfax Quadrangle