WORKSHEET 1 SUMMARY SCORE SHEET

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

Circle K Station #1461 2350 24th Ave. E. Seattle, WA 98112-2606 King Co. Sec. 21/T25N/R4E N-17-5101-000

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

The former Circle K gasoline station was used as a gasoline station and convenience store from 1968 to 1990. The property is now used as a retail dry cleaning business. Based on inventory records, approx. 4000 - 6000 gallons of gasoline leaked from a 4,000 gallon underground storage tank between June 22, 1989 and August 7, 1989. Fuel vapors were observed in the basement of the Museum of History and Industry, located approx. 2000 feet to the north, subsequent to the discovery of the leak. These vapors appeared to originate from the sanitary sewer system, the main line of which passed within 40 feet of the leaky underground fuel tank.

Concentrations of the gasoline components benzene, toluene and ethylbenzene (BTEX) exceeding MTCA cleanup levels were documented in on-site subsurface soil and shallow ground water samples.

Four underground fuel storage tanks and two underground oil storage tanks have been excavated, removed and transported offsite; and 900 cubic yards of contaminated soil were removed for offsite disposal. Free product recovery from a relatively small plume of contaminated ground water is continuing.

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):

Although gasoline vapors were detected in sanitary sewer lines downgradient from the leaky tank at the former Circle K site, no evidence of free product or fuel vapors flowing directly into the sanitary sewer system was determined during site assessment and remediation activities. Only the ground water migration route is applicable to be scored for ranking of this site.

ROUTE SCORES:

Surface Water/Human Health:	NS*	Surface Water/Environ.:	NS
Air/Human Health:	NS	Air/Environmental:	NS
Ground Water/Human Health:	39.6	·	

NS = Not scored.

OVERALL RANK: 3

WORKSHEET 2 ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE

List those substances to be <u>considered</u> for scoring:	Source: 1,2
Not applicable to site/not scored.	_ ¥
Explain basis for choice of substance(s) to be <u>used</u> in score	ing.
List those management units to be <u>considered</u> for scoring:	Source:
Explain basis for choice of unit to be <u>used</u> in scoring.	Source:
2. AIR ROUTE	
List those substances to be <u>considered</u> for scoring:	Source: 1,2
Not applicable to site/not scored.	
Explain basis for choice of substance(s) to be <u>used</u> in score	ing.
List those management units to be considered for scoring:	Source:
Explain basis for choice of unit to be <u>used</u> in scoring.	
3. GROUND WATER ROUTE	
List those substances to be <u>considered</u> for scoring:	Source: 1
Gasoline constituents: benzene, toluene, ethylbenzene, xyle	enes.
Explain basis for choice of substance(s) to be <u>used</u> in score	ing.
All of the above constituents were detected in subsurface s concentrations exceeding MTCA Cleanup levels.	soil samples at
List those management units to be considered for scoring:	Source: 1
Contaminated soil.	

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

BETX constituents were detected in subsurface soil samples at concentrations exceeding MTCA Cleanup levels.

WORKSHEET 6 GROUND WATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

				W		350.		
	Drinking			C 1		,		
	Water	Acut		Chro			Carcino	
3	Standard		city		city		genicit	
Substance	(ug/l) Val.	(mg/kg-by			<u>day) Val</u>			
l. Benzene	5 8	3306	3	X				5
2. Ethylbenzen		3500	3	0.1				
3. Toluene	2000 2	5000	3	0.2			X	-
4. Xylene	10,000 2	50	10	2	1	D	X	-
-				it			: 1,3	
Potency Factor					Highest	Value	: 10 (Max.=10	
	557			+	2 Bonus I	Points	s? <u> 2</u>	
		54		F	inal Toxi	lcity	Value	12 (Max.=
.2 Mobility	(Use numbers to	rofor to	above li	sted sub	etances)			(tax
	nions:					3	Value	. 3
Oations/A	110113				bource		Value	(Max.=
	Quantity: 4000				Source:	1	Value	: 4 (Max.=
2.0 MIGRATION	POTENTIAL				5			
2.1 Containmen Explain ba	asis: <u>Spills/di</u>		ontamina	ted	Source:	1,4	Value	10 (Max.=
	soil alw	ays = 10.						
2.2 Net Precip	oitation:	18.	7 inch	es	Source:	5	Value	. 2 (Max.=
	Hydraulic Con							
	epth to Ground							
								(LIGA.

WORKSHEET 6 (CONTINUED) GROUND WATER ROUTE

3.0	TARGETS		
3.1	Ground Water Usage: Groundwater not used/but usable	Source: 6	Value: 2 (Max.=10)
3.2	Distance to Nearest Drinking Water Well:>10,000 ft	Source: 6	Value: 0 (Max.=5)
3.3	Population Served within 2 Miles: $\sqrt{pop.} = 0$	Source: 6	Value: 0 (Max.=100)
3.4	Area Irrigated by (Groundwater) Wells		
	within 2 miles: $0.75\sqrt{\text{no.acres}} = 0.75\sqrt{0} = 0.75$ (0) = 0	Source: 7	Value: 0 (Max.=50)
4.0	RELEASE		
	Explain basis for scoring a release to ground water: Analytical evidence - groundwater contami-	Source: 1	Value: 5 (Max.=5)
	nation documented by gasoline constituents BETX	-	
	constituents exceeding their respective MTCA	-	
	cleanup levels for on-site monitoring wells.		

SOURCES USED IN SCORING

- 1. Report of Geotechnical Services, Subsurface Contamination Study and remedial Action Monitoring, Circle K Facility 1461, Seattle, WA, GeoEngineers, Inc., March 6, 1990; and Report of First Phase Activity at Former Circle K #1461, 2350 24th Ave. E., Seattle, WA, Glacier Environmental Services, Inc., June 1, 1992
- 2. Drive-by site reconnaisance, June 7, 1994.
- 3. Washington Department of Ecology, Toxicology Database for Use in Washington Ranking Method Scoring, January 1992.
- Washington Department of Ecology, WARM Scoring Manual, April 1992.
- 5. See enclosed table identified as Reference 5.
- 6. DOH Public Water Supply Listing
- 7. Ecology Water Rights Information System (WRIS).