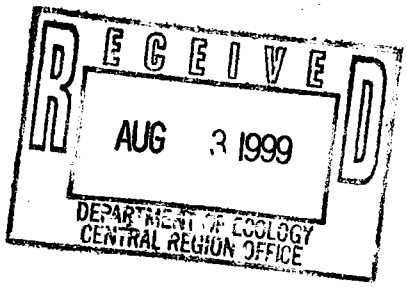
WORKSHEET 1
SUMMARY SCORE SHEET

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

Site Name/Location (City, County, Section/Township/Range):

Valley Junk Co., Inc.
403 Keyes Road
Yakima, Wa 98901



Latitude: N 46° 36' 6.95"
Longitude: W 120° 28' 4.82"

Parcel number: R= 19 T= 13 S= 21 - 23001

Site scored/ranked for the August 31, 1999 Update

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

This site is zoned industrial. Prior to its use as a junk yard, this land was a part of the Keyes Ranch. The exact date of conversion of this land to use as a junk yard is uncertain, but it has been used as a junk yard for at least 30 years. Operations consisted of purchasing recyclable materials and processing them for sale as feed stock or reuse by various manufactures. These operations included shearing, crushing, and baling larger metal items such as household appliances and automobiles and the sale of used auto parts.

PLSA Engineering and Surveying cleaned the site in 1998 with follow-up samples in 1999. No underground storage tanks were encountered during the course of the cleanup. All contamination appears to be the result of surface spills, primarily in the immediate vicinity of the hydraulic shears, hydraulic crusher, and hydraulic baler. This corresponds with the report that large quantities of hydraulic oil were purchased by Valley Junk, Inc. from Chevron. This hydraulic fluid has no toxicity according to its MSDS. (This site was scored on diesel because lab data indicated the presence of diesel range hydrocarbons. This is probably due to the break down of the hydraulic fluid to the diesel hydrocarbon range.)

There were two areas of significant contamination. One towards the north edge of the site (north plume) and one near the middle of the site (south plume). During clean up activities approximately 5,500 cubic yards (cy) of soil were removed from the contaminated area in the south plume. 2,300 cy of this was taken to a permitted petroleum contaminated soil remediation facility and the remaining soils were spread on a paved area on site for short term remediation by land farming. When work on the south plume was completed, soil and ground water samples showed TPH other levels below the MTCA method A levels.

Approximately 2,300 cy of soil were removed from the area of the north plume, 1620 cy of which were contaminated. The contamination found was primarily hydraulic fluid. However, there were small amounts of PCBs found, restricted to a small area. Subsequent testing of the removed soils found concentrations of PCBs in this material to be below action limits (probably due to the mixing of materials as they were removed). No PCBs were found in the ground water. Follow up sampling of the north plume excavation found the PCB levels (3.8 ppm) to be below the action limit for industrial sites (10 ppm). There is a limited area of petroleum contamination in the upgradient side of the excavation for the north plume which tests as diesel. Due to the fact that there is no known source for diesel at this site, it is presumed that the diesel range hydrocarbons are from the natural degradation of the hydraulic oil.

To the north of the site is Snokist Growers (a food cannery). To the east of the site are the railroad tracks and an open field. To the south of the site open land. To the west of the site is a mixture of light industrial and houses.

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):

The surface water route was not scored because there is no surface water near this site and it appears that there is no runoff from the site. The air route was not scored because all remaining contamination is below the ground surface.

PATHWAY SCORES:

Surface Water/Human Health: N/A ; Surface Water/Environ.: N/A ;

Air/Human Health: N/A ; Air/Environmental: N/A ;

Ground Water/Human Health: 41.76 .

OVERALL RANK: 3 .

WORKSHEET 2
ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE

Not Applicable/Not Scored

2. AIR ROUTE

Not Applicable/Not Scored

3. GROUND WATER ROUTE

List substances to be considered for scoring:

TPH diesel
PCBs

Source: 1

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

Considering this is an industrial zoned property, diesel is the only contaminate exceeding MTCA method A industrial levels so diesel is the only contaminant that was scored.

List management units to be considered in scoring:

This is a spill to the soil.

Source: 1

Explain basis for choice of unit used in scoring.

The material came from overfills and leaks from fuel storage tanks and hydraulic fluids from equipment.

WORKSHEET 4
SURFACE WATER ROUTE

Not Applicable/Not Scored

WORKSHEET 5
AIR ROUTE

Not Applicable/Not Scored

WORKSHEET 6
GROUND 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.
Diesel	*20*	*6*	*490*	*5*	*.004*	*5*	-		-

*Potency Factor

Source: 1, 2
Highest Value: 6
+2 Bonus Points? 0
Final Toxicity Value: 6

1.2 Mobility (Use numbers to refer to above listed substances)

Cations/Anions — Source — **Value:**

OR

Solubility(mg/l) 3.0 E001 — Source: 2 — **Value:** 1

1.3 Substance Quantity 134 cu.yd. — Source: 1, 3 — **Value:** 3

Explain basis: Estimate the area of contamination at 30' X 40' and estimate the depth at 3'.

2.0 MIGRATION POTENTIAL

2.1 Containment — Source: 3 — **Value:** 10

Explain basis: The contamination is the result of a spill.

2.2 Net Precipitation: 1.7 inches — Source: 4 — **Value:** 1

2.3 Subsurface Hydraulic Conductivity: $>10^{-3}$ — Source: 1, 3 — **Value:** 4

2.4 Vertical Depth to Ground Water: 0 - 25 feet — Source: 1, 3 — **Value:** 8

3.0 TARGETS

3.1	Ground Water Usage:	Public supply but alternate sources available with minimum hook up requirements	Source: 3, 5	**Value: 4**
3.2	Distance to Nearest Drinking Water Well:	<600 feet	Source: 5	**Value: 5**
3.3	Population Served within 2 Miles:	$(4701)^{-2} = 68.56$	Source: 6	**Value: 69**
3.4	Area Irrigated by (Groundwater) Wells within 2 miles:	$.75(3349)^{-2} = 43.40$	Source: 7	**Value: 43**

4.0 RELEASE

Explain basis for scoring a release to ground water: The contamination has been in contact with ground water and there is no barrier between the remaining contamination and ground water. Source: 1, 3 **Value: 5**

SOURCES USED IN SCORING

1. *Site Assessment Engineering Report on Petroleum Release interim Cleanup at Valley Junk Co., Inc, November 1998.*
2. *Toxicology Database for use in the Washington Ranking Method, January 1992.*
3. *Washington Ranking Method Scoring Manual, April 1992.*
4. *Washington Climate for Grant, Kittitas, Klickitat, and Yakima Counties, May 1979.*
5. *Site Visit by Yakima Health District Personnel*
6. *Mike Vashon with Yakima County GIS*
7. *Water Rights Application Tracking System.*

TABLE 27 - ESTIMATED EVAPOTRANSPIRATION (Inches of Water)

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN.
GRANT COUNTY						Ephrata							
Precip.	1.0	.7	.6	.6	.7	1.0	.2	.3	.4	.7	1.0	1.2	8.4
PET		.1	.8	2.0	3.7	5.0	6.5	5.7	3.6	1.7	.3		29.4
Ea(6)		.1	.8	1.7	2.0	1.6	.4	.4	.4	.7	.3		8.3
						Hartline							
Precip.	1.1	.9	.7	.8	1.1	1.3	.4	.3	.5	1.0	1.3	1.6	11.0
PET			.7	1.8	3.4	4.4	5.9	5.0	3.3	1.6	.2		26.3
Ea(6)			.7	1.6	2.4	2.4	1.4	.7	.6	1.0	.2		11.0
						Ruff 3SW							
Precip.	1.2	.9	.8	.5	.9	1.1	.4	.2	.4	1.0	1.1	1.6	10.1
PET			.8	2.0	3.3	4.4	5 7	5.0	3.3	1.6	.3		26.4
Ea(6)			.8	1.9	2.2	2.1	1.0	.4	.4	1.0	.3		10.1
KITTITAS COUNTY						Ellensburg Airport							
Precip.	1.2	.8	.6	.4	.5	.7	.1	.2	.5	.7	1.3	1.5	8.5
PET			.8	1.8	3.1	4.2	5.4	4.8	3.0	1.6	.3		25.0
Ea(6)			.8	1.3	1.7	1.7	.9	.5	.6	.7	.3		8.5
						Lake CleElum							
Precip.	6.0	4.4	3.7	1.5	1.4	1.1	.4	.4	1.2	3.4	5.7	7.0	36.2
PET			.5	1.5	2.7	3.7	4.8	4.4	3.0	1.6	.3		22.5
Ea(6)			.5	1.5	2.7	2.7	2.0	1.1	1.4	1.6	.3		13.8
						Lake Kachess							
Precip.	8.7	6.9	5.8	2.7	2.2	1.9	.7	.7	1.9	5.1	7.9	10.4	54.9
PET			.4	1.4	2.6	3.6	4.7	4.3	2.9	1.6	.3		21.8
Ea(6)			.4	1.4	2.6	3.3	2.8	1.7	2.1	1.6	.3		16.2
KLICKITAT COUNTY						Bickleton							
Precip.	1.4	1.6	1.0	.7	.7	1.0	.2	.2	.3	1.1	1.6	2.2	12.0
PET		.3	.6	1.6	2.9	3.9	5.1	4.6	3.2	1.7	.4		24.3
Ea(6)		.3	.6	1.6	2.3	2.4	1.4	.7	.5	1.1	.4		11.3
						Goldendale							
Precip.	2.9	2.0	1.6	.8	.8	1.0	.2	.2	.6	1.7	2.6	3.2	17.6
PET		.2	.9	1.8	3.0	3.9	4.9	4.4	3.0	1.7	.5		24.3
Ea(6)		.2	.9	1.8	2.4	2.3	1.4	.7	.7	1.7	.5		12.6
						Mt. Adams R.S.							
Precip.	8.8	6.5	5.0	2.3	1.6	1.4	.2	.4	1.3	4.3	7.6	10.0	49.4
PET		.3	.7	1.7	2.9	3.2	4.8	4.2	2.9	1.6	.7		23.0
Ea(6)		.3	.7	1.7	2.9	2.6	2.1	1.2	1.5	1.6	.7		15.3
YAKIMA COUNTY						Bumping Lake							
Precip.	7.7	6.2	4.6	2.2	1.8	1.6	.5	.6	1.4	4.2	7.0	9.6	47.4
PET				1.0	2.3	3.1	4.1	3.8	2.7	1.4	.3		18.7
Ea(6)				1.0	2.3	2.9	.	1.6	1.7	1.4	.3		13.6
						Rimrock Tieton Dam							
Precip.	4.3	2.9	2.4	1.1	1.0	1.1	.3	.5	.7	2.3	4.2	5.5	26.3
PET			.4	1.3	2.6	3.5	4.6	4.0	2.8	1.6	.3		21.1
Ea(6)			.4	1.3	2.4	2.6	1.8	1.1	.9	1.6	.3		12.4
						Wapato							
Precip.	1.0	.7	.5	.4	.5	.8	.2	.2	.3	.6	.9		7.2
PET		.2	1.0	2.1	3.7	4.8	6.1	5.3	3.4	1.7	.4	.1	28.8
Ea(6)		.2	1.0	1.5	1.4	1.2	.3	.2	.3	.6	.4	.1	7.2
						Yakima							
Precip.	.9	.8	.5	.4	.5	.6	.2	.2	.4	.6	1.0	1.1	7.2
PET		.1	1.0	2.0	3.6	4.6	5.7	4.9	3.0	1.6	.4		26.9
Ea(6)		.1	1.0	1.5	1.5	1.1	.4	.2	.4	.6	.4		7.2

* Precip.- Average precipitation. PET - Potential Evapotranspiration
Ea(6) - Actual evapotranspiration for soil water capacity of 6 inches.

TABLE 4 - AVERAGE MONTHLY AND ANNUAL PRECIPITATION (Inches)

STATION	(feet) Elevation	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
BENTON														
Benton City 2NW	680	1.12	.88	.71	.51	.53	.74	.15	.15	.29	.82	1.04	1.08	8.02
*Eltopia 7WNW	895	.93	.92	.71	.53	.93	.61	.18	.29	.45	.64	.99	1.29	8.47
Hanford	385	.87	.67	.47	.29	.44	.60	.13	.15	.28	.62	.78	1.09	6.39
*Hermiston 2S, Ore.	624	1.18	.93	.81	.62	.66	.75	.19	.13	.44	.87	1.05	1.14	8.77
Kennewick	392	1.05	.82	.56	.48	.54	.63	.17	.14	.33	.73	.95	1.09	7.49
Kennewick 10SW	1500	1.68	.91	.79	.60	.77	.90	.21	.26	.31	.95	1.19	1.36	9.93
McNary Dam	348	1.01	.74	.69	.48	.73	.39	.18	.25	.29	.74	1.02	1.12	7.64
Mottinger	307	1.03	.85	.75	.70	.50	.60	.11	.30	.47	.73	1.17	1.13	8.34
Pasco	360	1.12	.80	.54	.43	.63	.68	.18	.12	.33	.73	.84	1.00	7.40
Prosser	675	1.19	.87	.68	.59	.61	.83	.16	.23	.36	.93	1.02	1.06	8.53
Prosser 4NE	840	.94	.75	.61	.55	.57	.76	.17	.19	.37	.92	.94	1.00	7.77
Rattlesnake Mt.	2800	1.99	1.20	1.85	.70	1.19	.74	.40	.42	.82	.90	1.48	1.58	13.27
Richland	370	1.00	.85	.63	.38	.73	.68	.19	.19	.29	.75	.73	.92	7.34
Richland 25NNW	733	.98	.63	.48	.37	.50	.71	.15	.20	.34	.73	.77	.87	6.73
*Umatilla, Ore.	285	1.08	.79	.74	.56	.59	.69	.18	.13	.44	.82	1.00	1.11	8.13
GRANT														
Coulee Dam 1SW	1700	1.18	.97	.71	.80	1.19	1.23	.38	.43	.57	.89	1.19	1.12	10.66
Ephrata	1360	1.05	.74	.67	.56	.72	.92	.20	.25	.46	.77	.98	1.10	8.42
Ephrata FAA	1259	1.19	.76	.75	.58	.59	.78	.17	.21	.38	.78	.99	.83	8.01
Hartline	1910	1.27	.92	.79	.74	1.13	1.22	.33	.24	.59	.98	1.23	1.47	10.91
Moses Lake 3E	1208	1.09	.65	.63	.48	.89	.72	.33	.35	.45	.77	.97	.77	8.10
*Othello	1190	1.23	.82	.62	.51	.72	.79	.20	.12	.42	.94	.87	.92	8.16
Priest Rapids Dam	460	.70	.93	.77	.69	.46	.33	.10	.18	.21	.52	.79	1.12	6.80
Quincy 3S	1274	.99	.80	.62	.64	.85	.84	.19	.25	.46	.75	1.07	.73	8.19
Ruff 3SW	1342	1.19	.84	.72	.50	.86	1.08	.39	.20	.44	1.00	1.03	1.37	9.62
Smyrna	560	1.15	1.09	.79	.62	.58	.57	.12	.23	.32	.61	1.03	1.28	8.39
Trinidad 2SSE	555	1.04	.83	.70	.53	.70	.90	.14	.20	.39	.61	1.03	1.17	8.24
Wahluke	416	.74	.75	.43	.38	.37	.61	.20	.16	.27	.59	.83	1.03	6.36
Wilson Creek	1276	1.09	.78	.69	.54	.82	1.08	.28	.20	.52	.88	1.12	1.17	9.17
KITTITAS														
Cle Elum	1930	3.41	2.55	2.24	.98	1.00	1.02	.22	.30	.79	2.01	3.54	4.04	22.10
Easton	2170	7.72	5.52	4.63	2.48	1.57	1.40	.43	.69	2.14	5.01	6.95	9.55	48.09
Ellensburg	1520	1.26	.90	.76	.49	.59	.83	.13	.23	.44	.66	1.20	1.37	8.86
Ellensburg Bowers Fld	1729	1.10	.87	.54	.47	.75	.84	.19	.26	.47	.71	1.35	1.20	8.75
Lake Cle Elum	2255	5.87	4.31	3.67	1.57	1.31	1.09	.36	.42	1.32	3.61	6.00	6.96	36.49
Lake Kachess	2270	8.36	6.67	5.77	2.86	2.12	1.88	.61	.71	2.10	5.28	8.21	10.37	54.94
Lake Keechelus	2475	9.86	8.04	6.96	3.78	2.70	2.35	.77	.93	2.83	6.94	10.54	12.46	68.16
Snoqualmie Pass	3020	14.77	12.74	11.72	6.39	4.68	4.86	1.67	2.03	4.81	10.46	15.41	18.06	107.60
Stampede Pass	3958	12.03	10.15	10.60	5.60	4.25	4.09	1.46	2.04	4.39	8.81	12.58	16.19	92.19
KLICKITAT														
Appleton	2336	4.84	4.20	4.80	2.24	1.80	.53	.20	.57	1.01	2.42	5.81	5.54	33.96
*Arlington, Ore.	350	1.44	1.01	.84	.49	.56	.65	.14	.16	.33	.85	1.24	1.33	9.04
Bickleton	3000	1.83	1.57	1.15	.72	.75	.88	.18	.17	.36	1.03	1.81	2.18	12.63
Dallesport FAA	222	2.64	1.67	1.12	.48	.61	.59	.11	.33	.43	1.27	2.29	2.16	13.70
Dallesport 9N	1919	3.20	2.66	2.55	1.43	.91	.59	.14	.44	.72	1.71	3.65	3.45	21.45
Glenwood	1896	7.63	3.97	3.40	1.83	1.01	.64	.14	.29	.83	2.78	5.58	6.07	34.17
Goldendale	1800	2.93	2.03	1.70	.85	.79	.91	.15	.21	.62	1.64	2.53	3.05	17.41
Hood River E.S.,Ore.	350	5.04	3.62	3.41	1.49	1.10	.92	.15	.27	.86	2.62	4.77	5.44	29.69
John Day Dam	186	1.20	1.56	1.16	.65	.57	.25	.07	.19	.32	.62	1.73	2.27	10.59
Laurel	1900	7.31	4.56	3.54	2.08	1.63	.41	.40	.22	1.59	2.42	6.75	6.37	37.28
Maryhill	600	1.50	1.23	.75	.66	.44	.24	.10	.19	.62	.48	2.14	2.16	10.51
Mt. Adams R.S.	1960	8.49	6.05	5.07	2.45	1.67	1.29	.19	.42	1.26	4.14	7.25	9.14	47.42
Satus Pass	2610	2.87	3.32	2.87	1.52	1.08	.35	.16	.26	.71	1.55	3.71	4.05	22.45
White Salmon 4NE	2060	4.69	4.11	3.06	1.36	1.18	1.06	.22	.28	2.01	2.63	4.79	6.21	31.60
YAKIMA														
Bumping Lake	3440	7.85	6.03	4.82	2.29	1.77	1.59	.53	.64	1.52	4.28	7.25	9.25	47.82
Fort Simcoe	1300	2.46	1.78	.86	.45	.56	.37	.27	.17	.55	.60	2.24	2.10	12.41
Gold Creek	2600	2.24	1.81	1.30	.81	1.20	.72	.55	.28	1.08	1.41	2.79	2.18	16.37
McCumbers Ranch	2182	5.78	3.37	2.58	1.43	1.05	.62	.24	.35	1.53	2.46	5.80	4.88	30.09
Moxee	1000	.82	.89	.55	.61	.51	.71	.12	.17	.31	.55	.89	1.23	7.36
Moxee 10E	1550	.99	.59	.67	.63	.64	1.02	.22	.20	.51	.94	.95	.76	8.12
Naches 10NW	2375	2.16	1.24	.97	.77	.84	.74	.16	.33	.45	.74	1.77	1.69	11.86
Naches Heights	1874	.95	1.01	.66	.56	.45	.86	.13	.16	.34	.73	1.05	1.48	8.38
Rimrock Tieton Dam	2730	4.21	2.89	2.41	1.16	.96	1.02	.34	.50	.76	2.36	4.21	5.30	26.12
Sunnyside	747	.89	.66	.48	.42	.51	.84	.18	.21	.35	.72	.76	.88	6.90
Tieton Intake	2280	3.02	2.11	1.77	1.04	.89	1.10	.33	.45	.53	1.53	2.56	3.84	19.17
Toppenish	765	1.21	.64	.27	.28	.32	.25	.01	.12	.52	.35	1.08	.83	5.88
Wapato	850	1.04	.73	.53	.45	.45	.76	.15	.21	.33	.57	.87	1.02	7.11
White Swan R.S.	970	1.39	1.11	.67	.48	.31	.82	.18	.14	.29	.57	.97	1.29	8.22
Yakima NWSAS	1064	1.19	.87	.62	.47	.54	.81	.13	.20	.35	.60	.96	1.12	7.86