

JOHN SPELTMAN
Governor



Publication No. 84-e36

WA-10-0020

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

7272 Cleanwater Lane, LU-11 • Olympia, Washington 98504 • (206) 753-2353

M E M O R A N D U M

July 11, 1984

To: Frank Monahan
From: Dale Norton *D.N.*
Subject: Data on Leachate from the B & L Woodwaste Landfill

Summarized in Table 1 (attached) are data on metals concentrations and conventional water quality parameters from leachate samples I collected at the B & L Woodwaste Landfill over the last few months. These samples were collected as grabs. The EPA Manchester laboratory did the metals analysis. Conventional analyses were done at the WDOE Tumwater laboratory. Flow measurements were made in the field using a Marsh-McBernie magnetic flow meter.

The data are preliminary and have not been completely reviewed. They have not been blank-corrected.

Jane Hedges, Tacoma-Pierce County Health Department, has requested these data for their files on B & L. I would appreciate it if you could send her a copy after you have reviewed them.

DN:cp

Attachment

cc: Bill Yake
Dick Cunningham
Jim Krull

Table 1. WDOE data on metals concentrations and conventional water quality parameters in leachate from B & L Landfill collected between February 14 and May 9, 1984.

Date Collected	2/14/84	2/16/84	2/16/84	2/16/84	3/12/84	4/10/84	5/09/84
Time	1800	1350	1515	1715	1430	1310	1025
Parameter (units)							
pH (S.U.)	6.3	6.4	6.4	6.4	6.7	6.5	6.6
Specific Conductivity (umhos/cm)	907	501	533	551	331	570	583
Total Suspended Solids (mg/L)	220	90	110	140	220	130	100
Total Hardness (mg/L)	350	220	230	240	150	240	270
Flow (cfs)	0.032	0.11	0.11	0.11	0.67	0.11	0.03
Arsenic (ug/L)							
Total	--	5400	7900	8400	1600	3900	5200
Dissolved ²	--	--	1400	1400	--	--	--
Cadmium (ug/L)							
Total	0.2	0.1	<0.1	<0.1	0.3	0.1	<0.1
Dissolved	--	--	<0.1	<0.1	--	--	--
Chromium (ug/L)							
Total	11	2	3	4	5	5	1
Dissolved	--	--	4	<1	--	--	--
Nickel (ug/L)							
Total	134	41	46	42	6	13	<1
Dissolved	--	--	15	38	--	--	--
Lead (ug/L)							
Total	42	19	17	20	31	<1	18
Dissolved	--	--	10	11	--	--	--
Antimony (ug/L)							
Total	17	5	7	8	3	1	1
Dissolved	--	--	3	9	--	--	--
Zinc (ug/L)							
Total	250	120	143	146	101	99	69
Dissolved	--	--	72	78	--	--	--
Selenium (ug/L)							
Total	<1	--	--	--	--	--	--
Silver (ug/L)							
Total	<0.2	--	--	--	--	--	--
Beryllium (ug/L)							
Total	<0.2	--	--	--	--	--	--
Thallium (ug/L)							
Total	<1	--	--	--	--	--	--

¹Total metal in unfiltered sample.
²Dissolved metal able to pass through a 0.45u membrane filter.
 -- = Not analyzed.