Analysis Report

Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. TL 2795999
Collected: 10/ 3/97 at 13:45 by SN

Submitted: 10/ 3/97 Reported: 10/24/97
Discard: 11/24/97

CWK-BD-49 Soil Sample
TCLP ZERO HEADSPACE EXTRACTION Job #6015-08-06
Chambers Works Soil Reuse

Account No: 07032
DERS/DuPont Env Remed Services
Barley Mill Plaza, Bldg. 27
Routes 141 & 48
Wilmington DE 19805

P.O. LBIO-62248
Rel. L146

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS
0948	TCLP Volatiles			
3492	Vinyl Chloride	N.D.	0.010	mg/l
3500	1,1-Dichloroethene	N.D.	0.0050	mg/l
3503	Chloroform	N.D.	0.0050	mg/l
3504	1,2-Dichloroethane	N.D.	0.010	mg/l
0316	2-Butanone	N.D.	0.015	mg/l
3506	Carbon Tetrachloride	N.D.	0.0050	mg/l
3511	Trichloroethene	N.D.	0.0050	mg/l
3515	Benzene	N.D.	0.0050	mg/l
3522	Tetrachloroethene	N.D.	0.0050	mg/l
3525	Chlorobenzene	N.D.	0.0050	mg/l

The volatile organic analyses were performed on a zero headspace toxicity characteristic leachate of the submitted waste. The leachate was prepared according to the procedure specified in the March 29 and the June 29, 1990 Federal Registers.
A sample is considered to have failed the Toxicity Characteristic (TC) test and is therefore considered a hazardous waste if any of the volatile concentrations (mg/l) in the leachate exceed the following maxima:

Benzene	0.5	1,1-Dichloroethene	0.7
Carbon Tetrachloride	0.5	Methyl Ethyl Ketone (2-Butanone)	200.0
Chlorobenzene	100.0	Tetrachloroethene	0.7
Chloroform	6.0	Trichloroethene	0.5
1,2-Dichloroethane	0.5	Vinyl Chloride	0.2

The limits are published in March 29, 1990 Federal Register, pp. 11845-6.

QUALITY CONTROL REPORT

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
0948 TCLP Volatiles		Batch: H972861BB									
3492 Vinyl Chloride											
0.010	mg/l	N.D.		78	101	27					
3500 1,1-Dichloroethene											
0.0050	mg/l	N.D.		117	124	6					

1 COPY TO DERS/DuPont Env Remed Services ATTN: Ms. Jill Meuser
1 COPY TO DERS/DuPont Env Remed Service ATTN: Mr. Tom Morgan

Questions? Contact your Client Services Representative
Nancy Bornholm at (717) 656-2300
07:54:34 D 0002 3 130950 585617
320 0.00 00023700 ASR000

Ramona Layman

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates

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See reverse side for explanation of symbols and abbreviations.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	liter(s)
ml	milliliter(s)	**ul**	microliter(s)
m3	cubic meter(s)	**fib >5 um/ml**	fibers greater than 5 microns in length per ml

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA <0.995
X,Y,Z	Defined in case narrative		

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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