



Lancaster Laboratories
A Division of Thermo Analytical Inc.

LLI Sample No. TL 2795998

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 NON-VOLATILE EXTRACTION

Chambers Works Soil Reuse

Job #6015-08-06

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

P.O. LB10-62248
Rel. L146

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
3329	nitrobenzene	N.D.	0.0020 mg/l
3330	hexachlorobutadiene	N.D.	0.0020 mg/l
3331	2,4,6-trichlorophenol	N.D.	0.0040 mg/l
3332	2,4,5-trichlorophenol	N.D.	0.0020 mg/l
3333	2,4-dinitrotoluene	N.D.	0.0020 mg/l
3334	hexachlorobenzene	N.D.	0.0020 mg/l
3335	pentachlorophenol	N.D.	0.0020 mg/l

The semivolatile analyses were performed on a non-volatile 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 semivolatile concentrations (mg/l) in the leachate exceed the following maxima:

Total Methylphenols	200.0	Nitrobenzene	2.0
1,4-Dichlorobenzene	7.5	Pentachlorophenol	100.0
2,4-Dinitrotoluene	0.13	Pyridine	5.0
Hexachlorobenzene	0.13	2,4,5-Trichlorophenol	400.0
Hexachlorobutadiene	0.5	2,4,6-Trichlorophenol	2.0
Hexachloroethane	3.0		

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 LOW	LIMITS HIGH
1335 Arsenic		Batch: 972825705004									
0.029	mg/l	N.D.	0 (1)	89	87	2	101	101	0	80	120
1336 Selenium		Batch: 972825705004									
0.048	mg/l	N.D.	0 (1)	80	81	2	95	97	2	80	120
1746 Barium		Batch: 972825705004									
0.0028	mg/l	N.D.	0 (1)	10	11	1	104	105	1	80	120
1749 Cadmium		Batch: 972825705004									
0.0031	mg/l	N.D.	0 (1)	77	78	0	100	106	6	80	120
1751 Chromium		Batch: 972825705004									
0.0066	mg/l	N.D.	0 (1)	80	80	1	107	106	0	80	120
1755 Lead		Batch: 972825705004									

Questions? Contact your Client Services Representative
Nancy Bornholm at (717) 656-2300

Ramona V. Layman
Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates



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See reverse side for explanation of symbols and abbreviations

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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 <u>limit of quantitation</u> , 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 ≥DL
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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