156586

NOTE: THE DATA PRESENTED IN THIS SECTION IS PRESENTED IN THE ORIGINAL REPORT FORMAT.

SOURCE: "REMEDIAL INVESTIGATION AT SAUGET SITE R"
Geraghty & Miller, 1994

SUMMARY OF SAMPLES COLLECTED AT THE RIVER'S EDGE LANDFILL, MARCH 13-16, 1989

DYNAMAC SAMPLE NUMBER	RMA SAMPLE NUMBER	LOCATION	ANALYTES	SAMPLE DEPTH (FEET)*	CHAIN OF CUSTODY NUMBER	TRIP BLANK
D-1-3	003918-0001-SA	BORING 1	VOA	2-4	9348	1
D-1-7	003918-0002-SA	BORING 1	VOA	6-8	9348	1
D-1-13	003918-0003-SA	BORING 1	TCL	0-16, 12-14	9348	1
D-2-7	003918-0004-SA	BORING 2	VOA	6-8	9348	1
D-2-11	003918-0005-SA	BORING 2	VOA	10-12	9348	1
D-2-15	003918-0006-SA	BORING 2	VOA	14-16	9348	1
D-2-17	003918-0007-SA	BORING 2	TCL	0-18, 16-18	9348	1
D-8-5	003918-0008-SA	BORING 8	VOA	4-6	9348	1
D-8-9	003918-0009-SA	BORING 8	VOA	8-10	9348	1
D-8-25	003918-0010-SA	BORING 8	TCL	0-28, 24-26	9348	1
D-7-5	003919-0001-SA	BORING 7	VOA	6-8	9349	1
D-7-15	003919-0002-SA	BORING 7	VOA	14-16	9349	1
R-7-15	003919-0003-SA	BORING 7	VOA	14-16	9349	1
D-7-23	003919-0004-SA	BORING 7	TCL	0-24, 22-24	9349	1
D-6-5	003919-0005-SA	BORING 6	VOA	4-6	9349	1
D-6-15	003919-0006-SA	BORING 6	VOA	14-16	9349	1
D-6-27	003919-0007-SA	BORING 6	TCL	0-30, 26-28	9349	1
P-1	003919-0008-SA	PERIMETER	VOA	0.5-1	9349	1
P-2	003919-0009-SA	PERIMETER	TCL	0.5-1	9349	1
P-3	003919-0010-SA	PERIMETER	TCL	0.5-1	9349	1
P-4	003919-0011-SA	PERIMETER	VOA	0.5-1	9351	1
P-5	003919-0012-SA	PERIMETER	TCL	0.5-1	9351	1
P-6	003919-0013-SA	PERIMETER	VOA	0.5-1	9351	1

recycled paper

ecology and environment

TRIP BLANK	003919-0014-SA	-	VOA	-	9351	-
D-5-7	003950-0001-SA	BORING 5	VOA	6-8	9330	2
D-5-13	003950-0002-SA	BORING 5	VOA	12-14	9330	2
D-5-23	003950-0003-SA	BORING 5	TCL	0-30, 22-24	9330	2
D-4-5	003950-0004-SA	BORING 4	VOA	4-6	9330	2
D-4-17	003950-0005-SA	BORING 4	VOA	16-18	9330	2
D-4-23	003950-0006-SA	BORING 4	TCL	0-26, 22-24	9330	2
D-3-5	003950-0007-SA	BORING 3	VOA	4-6	9330	2
R-3-5	003950-0008-SA	BORING 3	VOA	4-6	9330	2
D-3-13	003950-0009-SA	BORING 3	VOA	12-14	9330	2
D-3-29	003950-0010-SA	BORING 3	TCL	0-30, 28-30	9330	2
R-3-29	003951-0001-SA	BORING 3	TCL	0-30, 28-30	9331	2
D-3-21	003951-0002-SA	BORING 3	VOA	20-22	9331	2
C-7	003951-0003-SA	CENTER	VOA	0.5-1	9331	2
C-8	003951-0004-SA	CENTER	VOA	0.5-1	9331	2
C-5	003951-0005-SA	CENTER	VOA	0.5-1	9331	2
C-6	003951-0006-SA	CENTER	VOA	0.5-1	9331	2
C-3	003951-0007-SA	CENTER	TCL	0.5-1	9331	2
RC-3	003951-0008-SA	CENTER	TCL	0.5-1	9331	2
C-4	003951-0009-SA	CENTER	VOA	0.5-1	9331	2
C-1	003951-0010-SA	CENTER	VOA	0.5-1	9331	2
C-2	003951-0011-SA	CENTER	VOA	0.5-1	9331	2
P-7	003951-0012-SA	PERIMETER	VOA	0.5-1	9331	2
PR-7	003951-0013-SA	PERIMETER	VOA	0.5-1	9331	2
P-8	003951-0014-SA	PERIMETER	VOA	0.5-1	9331	2
P-9	003951-0015-SA	PERIMETER	TCL	0.5-1	9331	2
P-10	003951-0016-SA	PERIMETER	VOA	0.5-1	9331	2
RC-6	003951-0017-SA	PERIMETER	VOA	0.5-1	9331	2
TRIP BLANK	NONE	-	VOA	-	9331	-

---

*1ST NUMBER IS COMPOSITE FOR NON-VOLATILE FRACTIONS OF THE TCL ANALYSIS

recycled paper

ecology and environment

APPENDIX K

DYNAMAC SOIL BORING REPORT - 1989

ATTACHMENT B

Analytical Data for Surface and

Subsurface Soil Samples

TABLE 1: Summary of TCL Volatile Organics in Surface Soil Samples
River's Edge Landfill (Sauget Site R), Monsanto Company, Sauget IL
(concentrations in ug/kg; sample depth in ft)

CAP/PERIM	CAP	CAP	CAP	CAP	CAP	CAP	CAP	CAP	CAP	CAP
SAMPLE NUMBER	C-1	C-2	C-3	RC-3	C-4	C-5	C-6	RC-6	C-7	C-8
SAMPLE DEPTH	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
Acrolein	< 10000	< 10000	< 100000	< 100000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000
Acrylonitrile	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000
Trichlorofluoromethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Dichlorodifluoromethane	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Methyl Isoamyl Ketone	--	--	--	--	--	--	--	--	--	--
Chloromethane	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Bromomethane	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Vinyl chloride	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Chloroethane	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Methylene chloride	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Acetone	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Carbon disulfide	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,1-Dichloroethene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,1-Dichloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,2-Dichloroethene (cis/trans)	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Chloroform	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,2-Dichloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
2-Butanone	< 2500	< 2500	< 2500	< 2500	3300	< 2500	< 2500	< 2500	< 2500	< 2500
1,1,1-Trichloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Carbon tetrachloride	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Vinyl acetate	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Bromodichloromethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,2-Dichloropropane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
cis-1,3-Dichloropropene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Trichloroethene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Chlorodibromomethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,1,2-Trichloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Benzene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
trans-1,3-Dichloropropene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
2-Chloroethyl vinyl ether	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Bromoform	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
4-Methyl-2-pentanone	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Hexanone	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
1,1,2,2-Tetrachloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Tetrachloroethene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Toluene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Chlorobenzene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Ethyl benzene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Styrene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Total xylenes	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500

REPLICATE SAMPLE NUMBERS ARE UNDERLINED

recycled paper

TABLE 1 (continued)

CAP/PERIM	PERIM	PERIM	PERIM	PERIM	PERIM	PERIM	PERIM	PERIM	PERIM	PERIM	PERIM
SAMPLE NUMBER	P-1	P-2	P-3	P-4	P-5	P-6	P-7	PR-7	P-8	P-9	P-10
SAMPLE DEPTH	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
Acrolein	< 10000	< 10000	< 10000	< 10000	< 10000	< 2500	< 10000	< 10000	< 10000	100000	< 10000
Acrylonitrile	< 10000	< 10000	< 10000	< 10000	< 10000	< 2500	< 10000	< 10000	< 10000	< 10000	< 10000
Trichlorofluoromethane	< 500	< 500	< 500	< 500	< 500	< 2500	< 500	< 500	< 500	< 500	< 500
Dichlorodifluoromethane	< 1000	< 1000	< 1000	< 1000	< 1000	< 2500	< 1000	< 1000	< 1000	< 1000	< 1000
Methyl Isoamyl Ketone	--	--	--	--	--	2500	--	--	--	--	--
Chloromethane	< 1000	< 1000	< 1000	< 1000	< 1000	< 2500	< 1000	< 1000	< 1000	< 1000	< 1000
Bromomethane	< 1000	< 1000	< 1000	< 1000	< 1000	< 2500	< 1000	< 1000	< 1000	< 1000	< 1000
Vinyl chloride	< 1000	< 1000	< 1000	< 1000	< 1000	< 2500	< 1000	< 1000	< 1000	< 1000	< 1000
Chloroethane	< 1000	< 1000	< 1000	< 1000	< 1000	< 2500	< 1000	< 1000	< 1000	< 1000	< 1000
Methylene chloride	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Acetone	< 2500	< 2500	< 2500	< 2500	< 2500	4900	< 2500	< 2500	4600	3400	3100
Carbon disulfide	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,1-Dichloroethene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,1-Dichloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,2-Dichloroethene (cis/trans)	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Chloroform	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,2-Dichloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
2-Butanone	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
1,1,1-Trichloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Carbon tetrachloride	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Vinyl acetate	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Bromodichloromethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,2-Dichloropropane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
cis-1,3-Dichloropropene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Trichloroethene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Chlorodibromomethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,1,2-Trichloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Benzene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
trans-1,3-Dichloropropene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
2-Chloroethyl vinyl ether	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Bromoform	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
4-Methyl-2-pentanone	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Hexanone	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
1,1,2,2-Tetrachloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Tetrachloroethene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Toluene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Chlorobenzene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Ethyl benzene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Styrene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Total xylenes	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500

REPLICATE SAMPLES NUMBERS ARE UNDERLINED

TABLE 2: Summary of TCL Semivolatile Organics in Surface Soil Samples
River's Edge Landfill (Sauget Site R), Monsanto Company, Sauget, IL
(concentrations in ug/kg; sample depth in ft)

CAP/PERIM	CAP	CAP	PERIM	PERIM	PERIM	PERIM
SAMPLE NUMBER	C-3	RC-3	P-2	P-3	P-5	P-9
SAMPLE DEPTH	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
1,2-Diphenylhydrazine	--	--	< 330	< 330	< 330	--
Benzidine	--	--	< 330	< 330	< 330	--
N-Nitrosodimethylamine	< 330	< 330	< 330	< 330	< 330	< 330
Aniline	< 330	< 330	< 330	< 330	< 330	< 330
4-Chlorophenol	--	--	--	--	--	--
Triphenyl Phosphate	--	--	--	--	--	--
4-Nitrodiphenylamine	--	--	--	360	--	--
2-Nitrobiphenyl	--	--	--	--	--	--
3-Nitrobiphenyl	--	--	--	--	--	--
2-Nitrochlorobenzene	--	--	--	--	--	--
4-Nitrochlorobenzene	--	--	--	360	--	--
Total Dinitrochlorobenzene	--	--	--	--	--	--
Phenol	< 330	< 330	< 330	< 330	< 330	< 330
bis(2-Chloroethyl)ether	< 330	< 330	< 330	< 330	< 330	< 330
2-Chlorophenol	< 330	< 330	< 330	< 330	< 330	< 330
1,3-Dichlorobenzene	< 330	< 330	< 330	< 330	< 330	< 330
1,4-Dichlorobenzene	< 330	< 330	< 330	< 330	< 330	< 330
Benzyl alcohol	< 330	< 330	< 330	< 330	< 330	< 330
1,2-Dichlorobenzene	< 330	< 330	< 330	< 330	< 330	< 330
2-Methylphenol	< 330	< 330	< 330	< 330	< 330	< 330
bis(2-Chloroisopropyl)ether	< 330	< 330	< 330	< 330	< 330	< 330
4-Methylphenol	< 330	< 330	< 330	< 330	< 330	< 330
N-Nitroso-di-n-propylamine	< 330	< 330	< 330	< 330	< 330	< 330
Hexachloroethane	< 330	< 330	< 330	< 330	< 330	< 330
Nitrobenzene	< 330	< 330	< 330	< 330	< 330	< 330
Isophorone	< 330	< 330	< 330	< 330	< 330	< 330
2-Nitrophenol	< 330	< 330	< 330	< 330	< 330	< 330
2,4-Dimethylphenol	< 330	< 330	< 330	< 330	< 330	< 330
Benzoic acid	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
bis(2-Chloroethoxy) methane	< 330	< 330	< 330	< 330	< 330	< 330
2,4-Dichlorophenol	< 330	< 330	< 330	< 330	< 330	< 330
1,2,4-Trichlorobenzene	< 330	< 330	< 330	< 330	< 330	< 330
Naphthalene	< 330	< 330	< 330	< 330	< 330	< 330
4-Chloroaniline	< 330	< 330	< 330	< 330	< 330	< 330
Hexachlorobutadiene	< 330	< 330	< 330	< 330	< 330	< 330
4-Chloro-3-methylphenol	< 330	< 330	< 330	< 330	< 330	< 330
2-Methylnaphthalene	< 330	< 330	< 330	< 330	< 330	< 330
Hexachlorocyclopentadiene	< 330	< 330	< 330	< 330	< 330	< 330

REPLICATE SAMPLE NUMBERS ARE UNDERLINED

TABLE 2 (continued)

CAP/PERIM	CAP	CAP	PERIM	PERIM	PERIM	PERIM
SAMPLE NUMBER	C-3	RC-3	P-2	P-3	P-5	P-9
SAMPLE DEPTH	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
2,4-Dinitrophenol	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
4-Nitrophenol	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
Dibenzofuran	< 330	< 330	< 330	< 330	< 330	< 330
2-4-Dinitrotoluene	< 330	< 330	< 330	< 330	< 330	< 330
2,6-Dinitrotoluene	< 330	< 330	< 330	< 330	< 330	< 330
Diethyl phthalate	< 330	< 330	< 330	< 330	< 330	< 330
4-Chlorophenyl phenyl ether	< 330	< 330	< 330	< 330	< 330	< 330
Fluorene	< 330	< 330	< 330	< 330	< 330	< 330
4-Nitroaniline	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
4,6-Dinitro-2-methylphenol	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
N-Nitrosodiphenylamine	< 330	< 330	< 330	< 330	< 330	< 330
4-Bromophenyl phenyl ether	< 330	< 330	< 330	< 330	< 330	< 330
Hexachlorobenzene	< 330	< 330	< 330	< 330	< 330	< 330
Pentachlorophenol	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
Phenanthrene	< 330	< 330	< 330	< 330	< 330	< 330
Anthracene	< 330	< 330	< 330	< 330	< 330	< 330
Di-n-butyl phthalate	< 330	< 330	< 330	< 330	< 330	< 330
Fluoranthene	< 330	< 330	< 330	< 330	< 330	< 330
Pyrene	< 330	< 330	< 330	< 330	< 330	< 330
Butyl benzyl phthalate	< 330	< 330	< 330	< 330	< 330	< 330
3,3'-Dichlorobenzidine	< 660	< 660	< 660	< 660	< 660	< 660
Benzo(a)anthracene	< 330	< 330	< 330	< 330	< 330	< 330
bis(2-Ethylhexyl) phthalate	< 330	< 330	< 330	< 330	< 330	< 330
Chrysene	< 330	< 330	< 330	< 330	< 330	< 330
Di-n-octyl phthalate	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(b)fluoroanthene	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(k)fluoroanthene	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)pyrene	< 330	< 330	< 330	< 330	< 330	< 330
Indeno(1,2,3-c,d)pyrene	< 330	< 330	< 330	< 330	< 330	< 330
Dibenz(a,h)anthracene	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(g,h,i)perylene	< 330	< 330	< 330	< 330	< 330	< 330

REPLICATE SAMPLE NUMBERS ARE UNDERLINED

TABLE 3: Summary of PP Organochlorine Pesticides/PCBs in Surface Soil Samples
River's Edge Landfill (Sauget Site R), Monsanto Company, Sauget, IL
(concentrations in ug/kg; sample depth in ft)

CAP/PERIM	CAP	CAP	CAP	PERIM	PERIM	PERIM	PERIM
SAMPLE NUMBER	C-1	C-3	RC-3	P-2	P-3	P-5	P-9
SAMPLE DEPTH	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
alpha-BHC	< 8	< 8	< 8	< 8	< 8	< 8	< 8
beta-BHC	< 8	< 8	< 8	< 8	< 8	< 8	< 8
delta-BHC	< 8	< 8	< 8	< 8	< 8	< 8	< 8
gamma-BHC (Lindane)	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Heptachlor	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Aldrin	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Heptachlor epoxide	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Endosulfan I	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Dieldrin	< 16	< 16	< 16	< 16	< 16	< 16	< 16
4,4'-DDE	< 16	< 16	< 16	< 16	< 16	< 16	< 16
Endrin	< 16	< 16	< 16	< 16	< 16	< 16	< 16
Endosulfan II	< 16	< 16	< 16	< 16	< 16	< 16	< 16
4,4'-DDT	< 16	< 16	< 16	< 16	< 16	< 16	< 16
Endosulfan sulfate	< 16	< 16	< 16	< 16	< 16	< 16	< 16
4,4'-DDT	< 16	< 16	< 16	< 16	< 16	< 16	< 16
Endrin aldehyde	< 16	< 16	< 16	< 16	< 16	< 16	< 16
Methoxychlor	< 80	< 80	< 80	< 80	< 80	< 80	< 80
Chlordane	< 80	< 80	< 80	< 80	< 80	< 80	< 80
Toxaphene	< 160	< 160	< 160	< 160	< 160	< 160	< 160
Arochlor-1016	< 80	< 80	< 80	< 80	< 80	< 80	< 80
Arochlor-1221	< 80	< 80	< 80	< 80	< 80	< 80	< 80
Arochlor-1232	< 80	< 80	< 80	< 80	< 80	< 80	< 80
Arochlor-1242	< 80	< 80	< 80	< 80	< 80	< 80	< 80
Arochlor-1248	< 80	< 80	< 80	< 80	680	< 80	< 80
Arochlor-1254	< 160	< 160	< 160	< 160	630	< 160	< 160
Arochlor-1260	< 160	< 160	< 160	< 160	< 160	< 160	< 160

REPLICATE SAMPLE NUMBERS ARE UNDERLINED

TABLE 4: Summary of Metals and Miscellaneous Compounds in Surface Soil Samples
River's Edge Landfill (Sauget Site R), Monsanto Company, Sauget, IL
(concentrations in mg/kg; sample depth in ft)

CAP/PERIM	CAP	CAP	PERIM	PERIM	PERIM	PERIM
SAMPLE NUMBER	C-3	RC-3	P-2	P-3	P-5	P-9
SAMPLE DEPTH	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
Antimony	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 0.50
Beryllium	0.40	0.40	0.40	0.40	0.40	0.50
Cadmium	< 0.50	< 0.50	< 0.50	< 0.50	1.00	< 1.00
Chromium	9.00	8.00	8.00	9.00	9.00	8.00
Copper	12.00	11.00	9.40	9.70	14.00	13.00
Nickel	13.00	14.00	11.00	11.00	11.00	13.00
Silver	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc	30.00	27.00	27.00	27.00	75.00	43.00
Aluminum	7600.00	6700.00	6800.00	7500.00	7400.00	8100.00
Barium	93.00	87.00	74.00	78.00	86.00	100.00
Boron	< 2.00	< 2.00	11.00	2.00	11.00	4.00
Cobalt	6.00	7.00	5.00	6.00	5.00	7.00
Iron	13500.00	12100.00	11400.00	12400.00	12300.00	13900.00
Lead	10.00	8.00	8.00	9.00	16.00	15.00
Manganese	470.00	560.00	400.00	430.00	400.00	550.00
Tin	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Vanadium	22.00	21.00	23.00	25.00	24.00	23.00
Arsenic	3.90	4.10	3.10	3.60	3.70	5.70
Mercury	< 0.05	< 0.05	< 0.05	0.24	< 0.05	< 0.05
Selenium	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Thallium	< 0.80	< 0.80	< 0.40	< 0.40	< 0.40	0.40
2,3,7,8-TCDD (ng/g)	< 0.045	< 0.064	< 0.036	< 0.059	< 0.037	< 0.04

REPLICATE SAMPLE NUMBERS ARE UNDERLINED

TABLE 5: Summary of TCL Volatile Organics in Subsurface Soil Samples
River's Edge Landfill (Sauget Site R), Monsanto Company, Sauget, IL
(concentrations in ug/kg)

BORING	D-1	D-1	D-1	D-2	D-2	D-2	D-2	D-2	D-3	D-3
SAMPLE NUMBER	D-1-3	D-1-7	D-1-13	D-2-7	D-2-11	D-2-15	D-2-17	D-3-5	R-3-5
SAMPLE DEPTH *	2-4	6-8	12-14	6-8	10-12	14-16	16-18	4-6	4-6
Acrolein	< 200000	< 100000	< 200000	< 2000000	< 50000	< 20000	< 50000	< 10000	< 10000
Acrylonitrile	< 200000	< 100000	< 200000	< 2000000	< 50000	< 20000	< 50000	< 10000	< 10000
Trichlorofluoromethane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Dichlorodifluoromethane	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
Methyl isoamyl Ketone	--	--	--	--	--	--	--	--	--
Chloromethane	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
Bromomethane	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
Vinyl chloride	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
Chloroethane	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
Methylene chloride	< 50000	< 25000	< 50000	< 500000	< 12500	< 5000	< 12500	< 2500	< 2500
Acetone	< 50000	< 25000	< 50000	1200000	< 12500	12000	< 12500	< 2500	< 2500
Carbon disulfide	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
1,1-Dichloroethene	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
1,1-Dichloroethane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
1,2-Dichloroethene (cis/trans)	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Chloroform	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
1,2-Dichloroethane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
2-Butanone	< 50000	< 25000	< 50000	770000	< 12500	< 5000	< 12500	< 2500	< 2500
1,1,1-Trichloroethane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Carbon tetrachloride	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Vinyl acetate	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
Bromodichloromethane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
1,2-Dichloropropene	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
cis-1,3-Dichloropropene	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Trichloroethene	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Chlorodibromomethane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
1,1,2-Trichloroethane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Benzene	< 10000	< 5000	< 10000	1200000	5800000	2900	6800	< 500	< 500
trans-1,3-Dichloropropene	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
2-Chloroethyl vinyl ether	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
Bromoform	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
4-Methyl-2-pentanone	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
2-Hexanone	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
1,1,2,2-Tetrachloroethane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Tetrachloroethene	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Toluene	< 10000	< 5000	< 10000	< 100000	13000	< 1000	< 2500	510	< 500
Chlorobenzene	< 10000	< 5000	48000	1900000	540000	24000	39000	< 500	< 500
Ethyl benzene	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Styrene	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Total xylenes	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500

TABLE 5 (continued)

BORING	D-3	D-3	D-3	D-3	D-4	D-4	D-4	D-5	D-5
SAMPLE NUMBER	D-3-13	D-3-21	D-3-29	8-3-29	D-4-5	D-4-17	D-4-23	D-5-7	D-5-13
SAMPLE DEPTH *	12-14	20-22	28-30	28-30	4-6	16-18	22-24	6-8	12-14
Acrolein	--	--	--	--	--	--	--	--	--
Acrylonitrile	< 1000000	< 200000	< 1000000	< 10000000	< 67000	< 10000	< 100000	< 13000	< 200000
Trichlorofluoromethane	< 1000000	< 200000	< 1000000	< 1000000	< 67000	< 10000	< 10000	< 13000	< 200000
Dichlorodifluoromethane	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Methyl Isoamyl Ketone	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 1300	< 20000
Chloromethane	--	--	--	--	--	--	--	--	--
Bromomethane	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 1300	< 20000
Vinyl chloride	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 1300	< 20000
Chloroethane	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 1300	< 20000
Methylene chloride	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 1300	< 20000
Acetone	< 250000	< 50000	< 250000	< 250000	< 16750	< 2500	< 2500	< 3250	< 50000
Carbon disulfide	< 250000	< 50000	< 250000	< 250000	33000	< 2500	< 2500	14000	130000
1,1-Dichloroethene	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
1,1-Dichloroethane	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
1,2-Dichloroethene (cis/trans)	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Chloroform	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
1,2-Dichloroethane	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
2-Butanone	< 50000	170000	< 50000	270000	< 3350	< 500	< 500	< 650	< 10000
1,1,1-Trichloroethane	670000	< 50000	280000	< 250000	18000	< 2500	< 2500	< 3250	< 50000
Carbon tetrachloride	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Vinyl acetate	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Bromodichloromethane	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 1300	< 20000
1,2-Dichloropropane	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
cis-1,3-Dichloropropene	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Trichloroethene	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Chlorodibromomethane	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
1,1,2-Trichloroethane	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Benzene	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
trans-1,3-Dichloropropene	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
2-Chloroethyl vinyl ether	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	870	< 10000
Bromoform	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 650	< 10000
4-Methyl-2-pentanone	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 1300	< 20000
2-Hexanone	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 650	< 10000
1,1,2,2-Tetrachloroethane	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 1300	< 20000
Tetrachloroethene	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 1300	< 20000
Toluene	380000	46000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Chlorobenzene	190000	25000	80000	86000	< 3350	< 500	< 500	< 650	< 10000
Ethyl benzene	260000	230000	1200000	1500000	< 3350	< 500	< 500	730	< 10000
Styrene	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Total xylenes	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
	180000	18000	< 50000	52000	< 3350	< 500	< 500	< 650	< 10000

TABLE 5 (continued)

BORING	D-5	D-6	D-6	D-6	D-7	D-7	D-7	D-7	D-8	D-8
SAMPLE NUMBER	D-5-23	D-6-5	D-6-15	D-6-27	D-7-5	D-7-15	R-7-15	D-7-23	D-8-5	D-8-9
SAMPLE DEPTH *	22-24	4-6	14-16	26-28	6-8	14-16	14-16	22-24	4-6	8-10
Acrolein	< 200000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 200000	< 50000
Acrylonitrile	< 20000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 200000	< 50000
Trichlorofluoromethane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Dichlorodifluoromethane	< 2000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 20000	< 5000
Methyl Isoamyl Ketone	--	--	--	--	--	--	--	--	--	--
Chloromethane	< 2000	< 1000	< 1000	< 1000	< 1000	5500	< 1000	< 1000	< 20000	< 5000
Bromomethane	< 2000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 20000	< 5000
Vinyl chloride	< 2000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 20000	< 5000
Chloroethane	< 2000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 20000	< 5000
Methylene chloride	< 5000	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 50000	< 12500
Acetone	16000	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	50000	26000
Carbon disulfide	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
1,1-Dichloroethene	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
1,1-Dichloroethane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
1,2-Dichloroethene (cis/trans)	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Chloroform	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
1,2-Dichloroethane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
2-Butanone	< 5000	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 50000	< 12500
1,1,1-Trichloroethane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Carbon tetrachloride	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Vinyl acetate	< 2000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 20000	< 5000
Bromodichloromethane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
1,2-Dichloropropane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
cis-1,3-Dichloropropene	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Trichloroethene	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Chlorodibromomethane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
1,1,2-Trichloroethane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Benzene	3100	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
trans-1,3-Dichloropropene	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
2-Chloroethyl vinyl ether	< 2000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 20000	< 5000
Bromoform	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
4-Methyl-2-pentanone	14000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 20000	< 5000
2-Hexanone	< 2000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 20000	< 5000
1,1,2,2-Tetrachloroethane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Tetrachloroethene	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Toluene	3400	< 500	< 500	< 500	< 500	< 500	< 500	< 500	210000	48000
Chlorobenzene	1200	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Ethyl benzene	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Styrene	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Total xylenes	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500

* ALL SAMPLE DEPTHS ARE GIVEN IN FEET BELOW LAND SURFACE

REPLICATE SAMPLE NUMBERS UNDERLINED

VOC FRACTION SAMPLES ARE COMPOSITES OF ONE SPLIT SPOON SAMPLE FROM THE STATED DEPTH INTERVAL

NON-VOC SAMPLES ARE COMPOSITES OF ALIQUOTS FROM CONTINUOUS SPLIT SPOON SAMPLES COLLECTED FROM OVER THE STATED DEPTH INTERVAL

TABLE 6: Summary of TCL Semivolatile Organics in Subsurface Soil Samples
River's Edge Landfill (Sauget Site R), Monsanto Company, Sauget, IL
(concentrations in ug/kg)

BORING	D-1	D-2	D-3	D-3	D-4	D-5	D-6	D-7	D-8
SAMPLE NUMBER	D-1-13	D-2-17	D-3-29	R-3-29	D-4-23	D-5-23	D-6-27	D-7-23	D-8-25
SAMPLE DEPTH *	0-16	0-18	0-30	0-30	0-26	0-30	0-30	0-24	0-28
1,2-Diphenylhydrazine	< 16000000	< 159984	--	--	--	--	< 330	< 330	< 33000
Benzidine	< 16000000	< 159984	--	--	--	--	< 330	< 330	< 33000
N-Nitrosodimethylamine	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Aniline	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
4-Chlorophenol	--	--	--	--	14000	120000	--	--	--
Triphenyl Phosphate	--	--	--	--	360000	800000	--	--	--
4-Nitrodiphenylamine	--	--	--	--	17000	440000	--	--	--
2-Nitrobiphenyl	--	--	--	--	--	--	--	--	--
3-Nitrobiphenyl	--	--	--	--	--	--	--	--	--
2-Nitrochlorobenzene	8000000	5400000	8000000	19000000	57000	840000	--	--	--
4-Nitrochlorobenzene	--	2100000	6800000	8400000	14000	320000	--	--	--
Total Dinitrochlorobenzene	--	--	--	--	--	--	--	--	--
Phenol	< 1600005	330000	< 660000	< 660000	21000	140000	< 330	< 330	< 33000
bis(2-Chloroethyl)ether	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2-Chlorophenol	< 1600005	< 159984	< 660000	< 660000	26000	220000	< 330	< 330	< 33000
1,3-Dichlorobenzene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
1,4-Dichlorobenzene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Benzyl alcohol	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
1,2-Dichlorobenzene	< 1600005	< 159984	< 660000	< 660000	7300	680000	< 330	< 330	< 33000
2-Methylphenol	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
bis(2-Cloroisopropyl) ether	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
4-Methylphenol	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
N-Nitroso-di-n-propylamine	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Hexachloroethane	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Nitrobenzene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Isophorone	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2-Nitrophenol	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2,4-Dimethylphenol	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Benzoic acid	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
bis(2-Chloroethoxy) methane	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2,4-Dichlorophenol	2100000	980000	3900000	4200000	16000	1100000	< 330	< 330	< 33000
1,2,4-Trichlorobenzene	< 1600005	< 159984	< 660000	< 660000	< 6600	210000	< 330	< 330	< 33000
Naphthalene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	410	< 330	< 33000
4-Chloroaniline	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Hexachlorobutadiene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
4-Chloro-3-methylphenol	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2-Methylnaphthalene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Hexachlorocyclopentadiene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2,4,6-Trichlorophenol	< 1600005	< 159984	< 660000	980000	< 6600	240000	< 330	< 330	< 33000
2,4,5-Trichlorophenol	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
2-Chloronaphthalene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2-Nitroaniline	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
Dimethyl phthalate	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000

TABLE 6 (continued)

BORING	D-1	D-2	D-3	D-3	D-4	D-5	D-6	D-7	D-8
SAMPLE NUMBER	D-1-13	D-2-17	D-3-29	R-3-29	D-4-23	D-5-23	D-6-27	D-7-23	D-8-25
SAMPLE DEPTH *	0-16	0-18	0-30	0-30	0-26	0-30	0-30	0-24	0-28
Acenaphthylene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
3-Nitroaniline	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
Acenaphthene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2,4-Dinitrophenol	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
4-Nitrophenol	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
Dibenzofuran	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2-4-Dinitrotoluene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2,6-Dinitrotoluene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Diethyl phthalate	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
4-Chlorophenyl phenyl ether	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Fluorene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
4-Nitroaniline	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
4,6-Dinitro-2-methylphenol	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
N-Nitrosodiphenylamine	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
4-Bromophenyl phenyl ether	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Hexachlorobenzene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Pentachlorophenol	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
Phenanthrene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Anthracene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Di-n-butyl phthalate	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Fluoranthene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Pyrene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	600	< 330	< 33000
Butyl benzyl phthalate	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	370	< 330	< 33000
3,3'-Dichlorobenzidine	< 3200010	< 319968	< 1320000	< 1320000	< 13200	< 66000	< 330	< 330	< 33000
Benzo(a)anthracene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 660	< 660	< 66000
bis(2-Ethylhexyl) phthalate	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Chrysene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Di-n-octyl phthalate	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	410	< 330	< 33000
Benzo(b)fluoroanthene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Benzo(k)fluoroanthene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Benzo(a)pyrene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	580	< 330	< 33000
Indeno(1,2,3-c,d)pyrene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Dibenz(a,h)anthracene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Benzo(g,h,i)perylene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000

* ALL SAMPLE DEPTHS ARE GIVEN IN FEET BELOW LAND SURFACE

REPLICATE SAMPLE NUMBERS ARE UNDERLINED

VOC FRACTION SAMPLES ARE COMPOSITES OF ONE SPLIT SPOON SAMPLE FROM THE STATED DEPTH INTERVAL

NON-VOC SAMPLES ARE COMPOSITES OF ALIQUOTS FROM CONTINUOUS SPLIT SPOON SAMPLES COLLECTED OVER THE STATED DEPTH INTERVAL

recycled paper

ecology and environment

TABLE 7: Summary of PP Organochlorine Pesticides/PCBs in Subsurface Soil Samples
River's Edge Landfill (Sauget Site R), Monsanto Company, Sauget, IL
(concentrations in ug/kg)

BORING	D-1	D-2	D-3	D-3	D-4	D-5	D-6	D-7	D-8
SAMPLE NUMBER	D-1-13	D-2-17	D-3-29	R-3-29	D-4-23	D-5-23	D-6-27	D-7-23	D-8-25
SAMPLE DEPTH *	0-16	0-18	0-30	0-30	0-26	0-30	0-30	0-24	0-28
alpha-BHC	< 800	< 800	< 4000	< 1600	< 80	< 800	< 8	< 8	< 80
beta-BHC	< 800	< 800	< 4000	< 1600	< 80	< 800	< 8	< 8	< 80
delta-BHC	< 800	< 800	< 4000	< 1600	< 80	< 800	< 8	< 8	< 80
gamma-BHC (Lindane)	< 800	< 800	< 4000	< 1600	< 80	< 800	< 8	< 8	< 80
Heptachlor	< 800	< 800	< 4000	< 1600	< 80	< 800	< 8	< 8	< 80
Aldrin	< 800	< 800	< 4000	< 1600	< 80	< 800	< 8	< 8	< 80
Heptachlor epoxide	< 800	< 800	< 4000	< 1600	< 80	< 800	< 8	< 8	< 80
Endosulfan I	< 800	< 800	< 4000	< 1600	< 80	< 800	< 8	< 8	< 80
Dieldrin	< 1600	< 1600	< 8000	< 3200	< 160	< 1600	< 16	< 16	< 160
4,4'-DDE	< 1600	< 1600	< 8000	< 3200	< 160	< 1600	< 16	< 16	< 160
Endrin	< 1600	< 1600	< 8000	< 3200	< 160	< 1600	< 16	< 16	< 160
Endosulfan II	< 1600	< 1600	< 8000	< 3200	< 160	< 1600	< 16	< 16	< 160
4,4'-DDT	< 1600	< 1600	< 8000	< 3200	< 160	< 1600	< 16	< 16	< 160
Endosulfan sulfate	< 1600	< 1600	< 8000	< 3200	< 160	< 1600	< 16	< 16	< 160
4,4'-DDT	< 1600	< 1600	< 8000	< 3200	< 160	< 1600	< 16	< 16	< 160
Endrin aldehyde	< 1600	< 1600	< 8000	< 3200	< 160	< 1600	< 16	< 16	< 160
Methoxychlor	< 8000	< 8000	< 40000	< 16000	< 800	< 8000	< 80	< 80	< 800
Chlordane	< 8000	< 8000	< 40000	< 16000	< 800	< 8000	< 80	< 80	< 800
Toxaphene	< 16000	< 16000	< 80000	< 32000	< 1600	< 16000	< 160	< 160	< 1600
Arochlor-1016	< 8000	< 8000	< 40000	49000	< 800	< 8000	< 80	< 80	< 800
Arochlor-1221	< 8000	< 8000	< 40000	< 16000	< 800	< 8000	< 80	< 80	< 800
Arochlor-1232	< 8000	< 8000	< 40000	< 16000	< 800	< 8000	< 80	< 80	< 800
Arochlor-1242	< 8000	< 8000	< 40000	< 16000	< 800	< 8000	< 80	< 80	< 800
Arochlor-1248	< 8000	< 8000	< 40000	< 16000	< 800	< 8000	< 80	< 80	< 800
Arochlor-1254	< 16000	< 16000	< 80000	< 32000	< 1600	< 16000	160	< 160	< 1600
Arochlor-1260	< 16000	20000	< 80000	< 32000	< 1600	< 16000	< 160	< 160	< 1600

* ALL SAMPLE DEPTHS ARE GIVEN IN FEET BELOW LAND SURFACE

REPLICATED SAMPLE NUMBERS ARE UNDERLINED

VOC FRACTION SAMPLES ARE COMPOSITES OF ONE SPLIT SPOON SAMPLE FROM THE STATED DEPTH INTERVAL

NON-VOC SAMPLES ARE COMPOSITES OF ALIQUOTS FROM CONTINUOUS SPLIT SPOON SAMPLES COLLECTED OVER THE STATED DEPTH INTERVAL

TABLE 8: Summary of Metals and Miscellaneous Compounds in Subsurface Soil Samples
River's Edge Landfill (Sauget Site R), Monsanto Company, Sauget, IL
(concentrations in mg/kg)

BORING	D-1	D-2	D-3	D-3	D-4	D-5	D-6	D-7	D-8
SAMPLE NUMBER	D-1-13	D-2-17	D-3-29	R-3-29	D-4-23	D-5-23	D-6-27	D-7-23	D-8-25
SAMPLE DEPTH *	0-16	0-18	0-30	0-30	0-26	0-30	0-30	0-24	0-28
Antimony	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Beryllium	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.6	0.6
Cadmium	< 0.5	< 0.5	0.6	0.7	< 0.5	< 0.5	< 0.5	0.7	< 0.5
Chromium	5	8	13	13	5	7	4	8	8
Copper	11	23	18	36	11	14	7.4	9.3	12
Nickel	9	19	9	10	11	9	9	12	13
Silver	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	43	79	110	46	70	35	40	79	68
Aluminum	10	24	3100	3500	4700	4800	4500	5100	16
Barium	4000	3700	150	160	110	90	110	100	5800
Boron	83	170	9	9	9	15	10	60	110
Cobalt	5	12	6	8	5	3	3	4	28
Iron	7	12	7900	11000	9100	10500	8400	10400	5
Lead	5300	8100	13	16	14	15	10	19	11400
Manganese	200	180	180	170	250	190	180	210	250
Tin	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vanadium	14	13	13	14	16	16	13	22	20
Arsenic	3.5	3.1	2.1	3.1	2.3	3	2.9	13	16
Mercury	< 0.05	< 0.05	0.15	0.29	0.26	0.53	< 0.05	< 0.05	0.06
Selenium	< 0.2	< 0.3	< 0.2	< 0.2	0.2	< 0.2	0.3	0.5	0.6
Thallium	< 0.8	< 2	< 0.8	2	< 0.8	2	0.8	0.4	0.4
2,3,7,8-TCDD (ng/g)	< 0.24	< 0.27	0.66	2.6	0.04	< 0.04	< 0.2	< 0.17	< 0.17

* ALL SAMPLE DEPTHS ARE GIVEN IN FEET BELOW LAND SURFACE

REPLICATE SAMPLE NUMBERS ARE UNDERLINED

VOC FRACTION SAMPLES ARE COMPOSITES OF ONE SPLIT SPOON SAMPLE FROM THE STATED DEPTH INTERVAL

NON-VOC SAMPLES ARE COMPOSITES OF ALIQUOTS FROM CONTINUOUS SPLIT SPOON SAMPLES COLLECTED OVER THE STATED DEPTH INTERVAL

recycled paper

ecology and environment

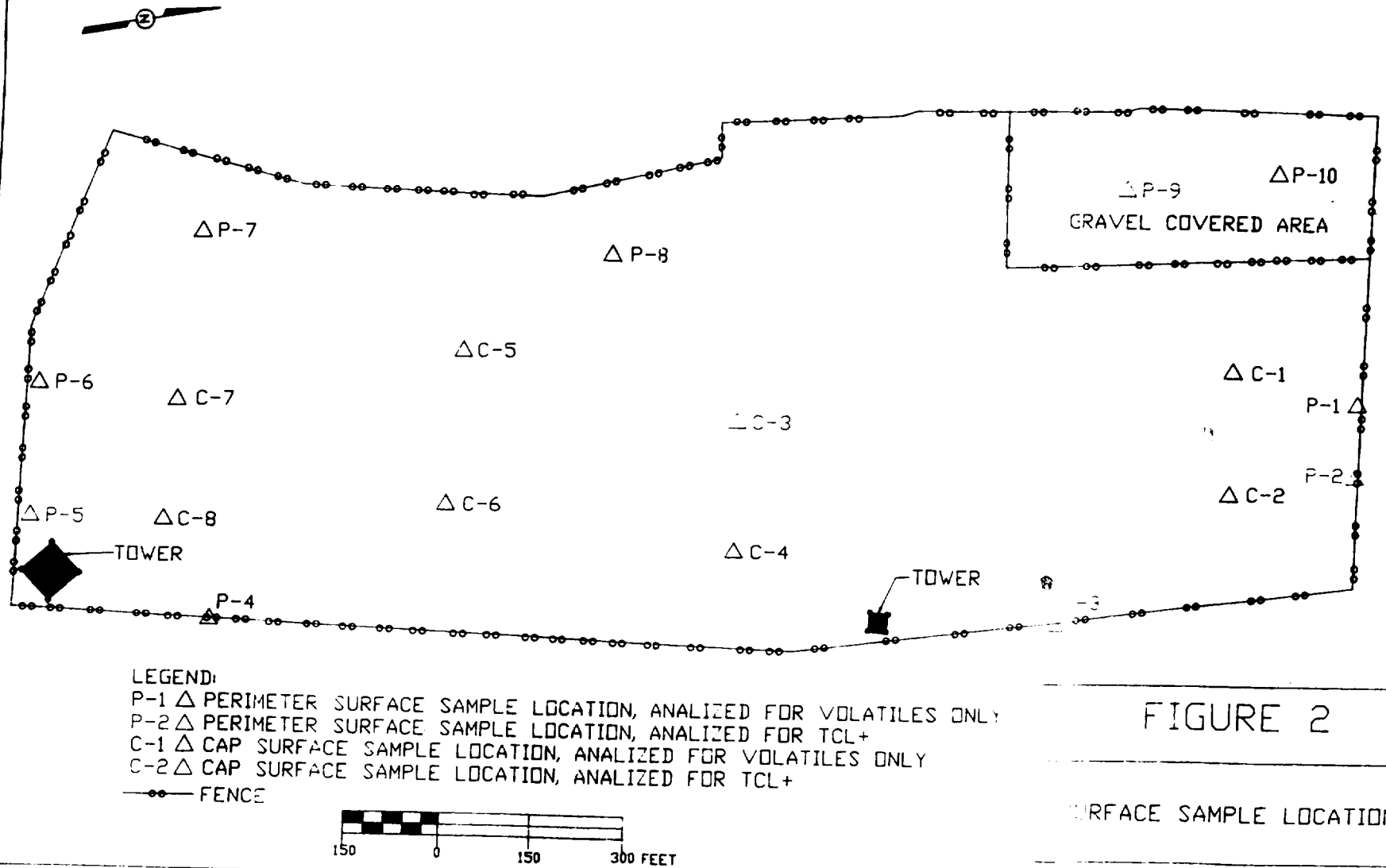

FIGURE 2

RFACE SAMPLE LOCATIONS

recycled paper

ecology and environment

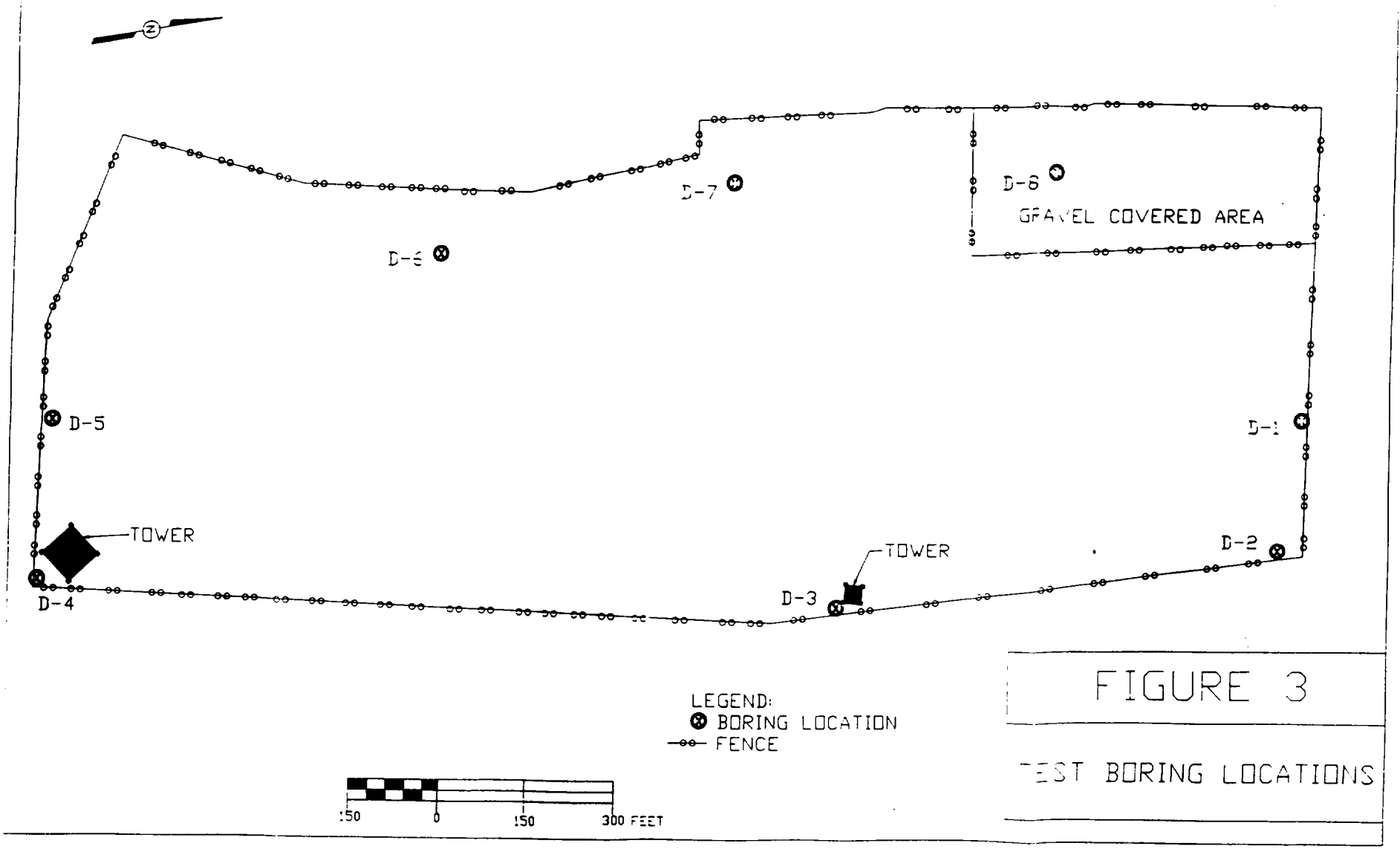

FIGURE 3

TEST BORING LOCATIONS

recycled paper

ecology and environment

NOTE: THE DATA PRESENTED IN THIS SECTION IS PRESENTED IN THE ORIGINAL REPORT FORMAT.

SOURCE: "REMEDIAL INVESTIGATION AT SAUGET SITE R"
Geraghty & Miller, 1994