MCP PHASE I REPORT FOR LYMAN STREET PARKING LOT (OXBOW AREA D) AND CURRENT ASSESSMENT SUMMARY FOR USEPA AREA 5A

VOLUME IV OF IV

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FEBRUARY 1994

BLASLAND, BOUCK & LEE, INC.
6723 TOWPATH ROAD, BOX 66
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MCP PHASE I REPORT
FOR LYMAN STREET PARKING LOT (OXBOW AREA D) AND CURRENT ASSESSMENT SUMMARY FOR USEPA AREA 5A

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SECTION 1

VOLATILE ORGANICS (GROUNDWATER)

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APPENDIX IX VOLATILE ORGANIC ANALYSIS

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-2
Lab Sample ID: LL77030

Compound		Compound	
acetone	2,000 U	1,2-dichloropropane	1,000 U
acetonitrile	20,000 U	cis-1,3-dichloropropene	1,000 U
acrolein	2,000 U	trans-1,3-dichloropropene	1,000 U
acrylonitrile	2,000 U	1,4-dioxane	200,000 U
benzene	270 J	ethyl benzene	890 J
bromodichloromethane	1,000 U	ethyl cyanide	20,000 U
bromoform	1,000 U	2-hexanone	2,000 U
bromomethane	2,000 U	iodomethane	1,000 U
2-butanone	2,000 U	isobutyl alcohol	400,000 U
carbon disulfide	1,000 U	methacrylonitrile	2,000 U
carbon tetrachloride	1,000 U	methyl methacrylate	2,000 U
chlorobenzene	14,000	4-methyl-2-pentanone	2,000 U
chloroethane	2,000 U	methylene chloride	310 J
3-chloro-1-propene	1,000 U	pyridine	400,000 U
chloroform	1,000 U	styrene	1,000 U
chloromethane	2,000 U	1,1,1,2-tetrachloroethane	1,000 U
chloroprene	1,000 U	1,1,2,2-tetrachloroethane	1,000 U
1,2-dibromo-3-chloropropane	2,000 U	tetrachloroethene	1,000 U
dibromochloromethane	1,000 U	toluene	1,000 U
1,2-dibromoethane	1,000 U	1,1,1-trichloroethane	1,000 U
dibromomethane	1,000 U	1,1,2-trichloroethane	1,000 U
trans-1,4-dichloro-2-butene	4,000 U	trichloroethene	1,000 U
dichlorodifluoromethane	4,000 U	trichlorofluoromethane	1,000 U
1,1-dichloroethane	1,000 U	1,2,3-trichloropropane	4,000 U
1,2-dichloroethane	1,000 U	vinyl acetate	2,000 U
1,1-dichloroethene	1,000 U	vinyl chloride	2,000 U
trans-1,2-dichloroethene	1,000 U	xylenes (total)	7,800
ethyl methacrylate	2,000 U	2-chloroethyl vinyl ether	2,000 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an extimated value less than the detection limit.

Date of Analysis: 09/19/90

APPENDIX IX VOLATILE ORGANIC ANALYSIS

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-4
Lab Sample ID: LL7704

Compound		Compound	
acetone	100 U	1,2-dichloropropane	50 U
acetonitrile	1,000 U	cis-1,3-dichloropropene	50 U
acrolein	100 U	trans-1,3-dichloropropene	50 U
acrylonitrile	100 U	1,4-dioxane	10,000 U
benzene	81	ethyl benzene	110
bromodichloromethane	50 U	ethyl cyanide	1,000 U
bromoform	50 U	2-hexanone	100 U
bromomethane	100 U	iodomethane	50 U
2-butanone	100 U	isobutyl alcohol	20,000 U
carbon disulfide	31 J	methacrylonitrile	100 U
carbon tetrachloride	1,900	methyl methacrylate	100 U
chlorobenzene	880	4-methyl-2-pentanone	100 U
chloroethane	100 U	methylene chloride	14 J
3-chloro-1-propene	50 U	pyridine	200,000 U
chloroform	180	styrene	50 U
chloromethane	100 U	1,1,1,2-tetrachloroethane	50 U
chloroprene	50 U	1,1,2,2-tetrachloroethane	50 U
1,2-dibromo-3-chloropropane	100 U	tetrachloroethene	50 U
dibromochloromethane	50 U	toluene	60 U
1,2-dibromoethane	50 U	1,1,1-trichloroethane	50 U
dibromomethane	50 U	1,1,2-trichloroethane	50 U
trans-1,4-dichloro-2-butene	200 U	trichloroethene	330
dichlorodifluoromethane	200 U	trichlorofluoromethane	50 U
1,1-dichloroethane	50 U	1,2,3-trichloropropane	20 U
1,2-dichloroethane	50 U	vinyl acetate	100 U
1,1-dichloroethene	50 U	vinyl chloride	100 U
trans-1,2-dichloroethene	50 U	xylenes (total)	1,800
ethyl methacrylate	100 U	2-chloroethyl vinyl ether	100 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an extimated value less than the detection limit.

Date of Analysis: 09/19/90

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 15, 1990

Client Project ID: Lyman St./AY03701 Job Number: GECP 46636

APPENDIX IX VOLATILE ORGANIC ANALYSIS

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-4 DL
Lab Sample ID: LL7704

Compound		Compound	
acetone	1,000 U	1,2-dichloropropane	500 U
acetonitrile	10,000 U	cis-1,3-dichloropropene	500 U
acrolein	1,000 U	trans-1,3-dichloropropene	500 U
acrylonitrile	1,000 U	1,4-dioxane	100,000 U
benzene	500 U	ethyl benzene	500 U
bromodichloromethane	500 U	ethyl cyanide	10,000 U
bromoform	500 U	2-hexanone	1,000 U
bromomethane	1,000 U	iodomethane	500 U
2-butanone	1,000 U	isobutyl alcohol	200,000 U
carbon disulfide	500 U	methacrylonitrile	1,000 U
carbon tetrachloride	1,700 D	methyl methacrylate	1,000 U
chlorobenzene	1,200 D	4-methyl-2-pentanone	1,000 U
chloroethane	1,000 U	methylene chloride	1,200 D
3-chloro-1-propene	500 U	pyridine	2,000,000 U
chloroform	220 JD	styrene	500 U
chloromethane	1,000 U	1,1,1,2-tetrachloroethane	500 U
chloroprene	500 U	1,1,2,2-tetrachloroethane	500 U
1,2-dibromo-3-chloropropane	1,000 U	tetrachloroethene	120 JD
dibromochloromethane	500 U	toluene	210 JD
1,2-dibromoethane	500 U	1,1,1-trichloroethane	500 U
dibromomethane	500 U	1,1,2-trichloroethane	500 U
trans-1,4-dichloro-2-butene	2,000 U	trichloroethene	280 JD
dichlorodifluoromethane	2,000 U	trichlorofluoromethane	500 U
1,1-dichloroethane	500 U	1,2,3-trichloropropane	2,000 U
1,2-dichloroethane	500 U	vinyl acetate	1,000 U
1,1-dichloroethene	500 U	vinyl chloride	1,000 U
trans-1,2-dichloroethene	500 U	xylenes (total)	2,000 U
ethyl methacrylate	1,000 U	2-chloroethyl vinyl ether	1,000 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an extimated value less than the detection limit.
D - Compound analyzed at a secondary dilution factor.

Date of Analysis: 09/19/90

APPENDIX IX VOLATILE ORGANIC ANALYSIS

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-10
Lab Sample ID: LL8924

acetone	10 U	cis-1,3-dichloropropene	5 U
acetonitrile	100 U	trans-1,3-dichloropropene	5 U
acrolein	10 U	1,4-dioxane	1,000 U
acrylonitrile	10 U	ethyl benzene	5 U
benzene	5 U	ethyl cyanide	100 U
bromodichloromethane	5 U	ethyl methacrylate	10 U
bromoform	5 U	2-hexanone	10 U
bromomethane	10 U	iodomethane	5 U
2-butanone	10 U	isobutyl alcohol	2,000 U
carbon disulfide	5 U	methacrylonitrile	10 U
carbon tetrachloride	5 U	methyl methacrylate	10 U
chlorobenzene	5 U	4-methyl-2-pentanone	10 U
chloroethane	10 U	methylene chloride	5 U
3-chloro-1-propene	5 U	pyridine	20,000 U
chloroform	5 U	styrene	5 U
chloromethane	10 U	1,1,1,2-tetrachloroethane	5 U
chloroprene	5 U	1,1,2,2-tetrachloroethane	5 U
1,2-dibromo-3-chloropropane	10 U	tetrachloroethene	18
dibromochloromethane	5 U	toluene	5 U
1,2-dibromoethane	5 U	1,1,1-trichloroethane	4 J
dibromomethane	5 U	1,1,2-trichloroethane	5 U
trans-1,4-dichloro-2-butene	20 U	trichloroethene	5 U
dichlorodifluoromethane	20 U	trichlorofluoromethane	5 U
1,1-dichloroethane	5 U	1,2,3-trichloropropane	20 U
1,2-dichloroethane	5 U	vinyl acetate	10 U
1,1-dichloroethene	5 U	vinyl chloride	10 U
trans-1,2-dichloroethene	5 U	xylenes (total)	5 U
1,2-dichloropropane	5 U	2-chloroethylvinyl ether	10 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an extimated value less than the detection limit.

Date of Analysis: 10/16/90
Dilution Factor: 1

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 31, 1990

Client Project ID: GE Pittsfield, MA/AY03701 Job Number: GECP 46812

APPENDIX IX VOLATILE ORGANIC ANALYSIS

Results in ug/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-11
Lab Sample ID: LL8925

acetone	10 U	cis-1,3-dichloropropene	5 U
acetonitrile	100 U	trans-1,3-dichloropropene	5 U
acrolein	10 U	1,4-dioxane	1,000 U
acrylonitrile	10 U	ethyl benzene	78
benzene	82	ethyl cyanide	100 U
bromodichloromethane	5 U	ethyl methacrylate	10 U
bromoform	5 U	2-hexanone	10 U
bromomethane	10 U	iodomethane	5 U
2-butanone	10 U	isobutyl alcohol	2,000 U
carbon disulfide	5 U	methacrylonitrile	10 U
carbon tetrachloride	5 U	methyl methacrylate	10 U
chlorobenzene	1,600 E	4-methyl-2-pentanone	10 U
chloroethane	10 U	methylene chloride	5 U
3-chloro-1-propene	5 U	pyridine	20,000 U
chloroform	5 U	styrene	5 U
chloromethane	10 U	1,1,1,2-tetrachloroethane	5 U
chloroprene	5 U	1,1,2,2-tetrachloroethane	5 U
1,2-dibromo-3-chloropropane	10 U	tetrachloroethene	5 U
dibromochloromethane	5 U	toluene	3 J
1,2-dibromoethane	5 U	1,1,1-trichloroethane	5 U
dibromomethane	5 U	1,1,2-trichloroethane	5 U
trans-1,4-dichloro-2-butene	20 U	trichloroethene	14
dichlorodifluoromethane	20 U	trichlorofluoromethane	5 U
1,1-dichloroethane	5 U	1,2,3-trichloropropane	20 U
1,2-dichloroethane	5 U	vinyl acetate	10 U
1,1-dichloroethene	5 U	vinyl chloride	10 U
trans-1,2-dichloroethene	5 U	xylenes (total)	120
1,2-dichloropropane	5 U	2-chloroethylvinyl ether	10 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an extimated value less than the detection limit.
E - Value exceeds calibration range.

Date of Analysis: 10/15/90
Dilution Factor: 1

APPENDIX IX VOLATILE ORGANIC ANALYSIS

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-11 DL
Lab Sample ID: LL8925D

acetone	200 U	cis-1,3-dichloropropene	100 U
acetonitrile	2,000 U	trans-1,3-dichloropropene	100 U
acrolein	200 U	1,4-dioxane	20,000 U
acrylonitrile	200 U	ethyl benzene	49 J
benzene	58 J	ethyl cyanide	2,000 U
bromodichloromethane	100 U	ethyl methacrylate	200 U
bromoform	100 U	2-hexanone	200 U
bromomethane	200 U	iodomethane	100 U
2-butanone	200 U	isobutyl alcohol	40,000 U
carbon disulfide	100 U	methacrylonitrile	200 U
carbon tetrachloride	100 U	methyl methacrylate	200 U
chlorobenzene	2,600	4-methyl-2-pentanone	200 U
chloroethane	200 U	methylene chloride	24 J
3-chloro-1-propene	100 U	pyridine	400,000 U
chloroform	21 J	styrene	100 U
chloromethane	200 U	1,1,1,2-tetrachloroethane	100 U
chloroprene	100 U	1,1,2,2-tetrachloroethane	100 U
1,2-dibromo-3-chloropropane	200 U	tetrachloroethene	100 U
dibromochloromethane	100 U	toluene	100 U
1,2-dibromoethane	100 U	1,1,1-trichloroethane	100 U
dibromomethane	100 U	1,1,2-trichloroethane	100 U
trans-1,4-dichloro-2-butene	400 U	trichloroethene	100 U
dichlorodifluoromethane	400 U	trichlorofluoromethane	100 U
1,1-dichloroethane	100 U	1,2,3-trichloropropane	400 U
1,2-dichloroethane	100 U	vinyl acetate	200 U
1,1-dichloroethene	100 U	vinyl chloride	200 U
trans-1,2-dichloroethene	100 U	xylenes (total)	30 J
1,2-dichloropropane	100 U	2-chloroethylvinyl ether	200 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an extimated value less than the detection limit.

Date of Analysis: 10/16/90
Dilution Factor: 20

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
December 6, 1990

Client Project ID: GE - Lyman St./AY03701

Job Number: GECP 46829

VOLATILE ORGANIC TARGET COMPOUND LIST

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-12
Lab Sample ID: LL9058

Compound		Compound	
chloromethane	20 U	1,2-dichloropropane	10 U
bromomethane	20 U	cis-1,3-dichloropropene	10 U
vinyl chloride	20 U	trichloroethene	320
chloroethane	20 U	dibromochloromethane	10 U
methylene chloride	10 U	1,1,2-trichloroethane	10 U
acetone	20 U	benzene	10 U
carbon disulfide	10 U	trans-1,3-dichloropropene	10 U
1,1-dichloroethene	10 U	bromoform	10 U
1,1-dichloroethane	10 U	4-methyl-2-pentanone	20 U
1,2-dichloroethene (total)	10 U	2-hexanone	20 U
chloroform	38	tetrachloroethene	10
1,2-dichloroethane	10 U	1,1,2,2-tetrachloroethane	10 U
2-butanone	20 U	toluene	10 U
1,1,1-trichloroethane	10 U	chlorobenzene	35
carbon tetrachloride	150	ethylbenzene	10 U
vinyl acetate	20 U	styrene	10 U
bromodichloromethane	10 U	total xylenes	54

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date of Analysis: 10/15/90
Dilution Factor: 2

VOLATILE ORGANIC TARGET COMPOUND LIST

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-13
Lab Sample ID: LL9059

Compound		Compound	
chloromethane	25 U	1,2-dichloropropane	13 U
bromomethane	25 U	cis-1,3-dichloropropene	13 U
vinyl chloride	25 U	trichloroethene	13 U
chloroethane	25 U	dibromochloromethane	13 U
methylene chloride	13 U	1,1,2-trichloroethane	13 U
acetone	25 U	benzene	30
carbon disulfide	13 U	trans-1,3-dichloropropene	13 U
1,1-dichloroethene	13 U	bromoform	13 U
1,1-dichloroethane	13 U	4-methyl-2-pentanone	25 U
1,2-dichloroethene (total)	13 U	2-hexanone	25 U
chloroform	13 U	tetrachloroethene	5 J
1,2-dichloroethane	13 U	1,1,2,2-tetrachloroethane	13 U
2-butanone	25 U	toluene	13 U
1,1,1-trichloroethane	13 U	chlorobenzene	400
carbon tetrachloride	13 U	ethylbenzene	36
vinyl acetate	25 U	styrene	13 U
bromodichloromethane	13 U	total xylenes	260

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date of Analysis: 10/15/90
Dilution Factor: 2.5

SECTION 2

SEMIVOLATILE ORGANICS (GROUNDWATER)

LS-2	-	Groundwater Samples from Well LS-2
LS-4	-	Groundwater Samples from Well LS-4
LS-10	-	Groundwater Samples from Well LS-10
LS-11	-	Groundwater Samples from Well LS-11
LS-12	-	Groundwater Samples from Well LS-12
LS-13	-	Groundwater Samples from Well LS-13

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 15, 1990

Client Project ID: Lyman St./AY03701

Job Number: GECP 46636

APPENDIX IX SEMIVOLATILE ORGANIC ANALYSIS

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-2
Lab Sample ID: LL7714

Compound		Compound	
phenol	3 J	bis(2-chloroethoxy)methane	10 U
bis(2-chloroethyl)ether	10 U	2,4-dichlorophenol	10 U
2-chlorophenol	10 U	1,2,4-trichlorobenzene	59
1,3-dichlorobenzene	110	naphthalene	160
1,4-dichlorobenzene	420 D	4-chloroaniline	10 U
benzyl alcohol	4 J	hexachlorobutadiene	10 U
1,2-dichlorobenzene	11	4-chloro-3-methylphenol	10 U
2-methylphenol	10 U	2-methylnaphthalene	40
bis(2-chloroisopropyl)ether	10 U	hexachlorocyclopentadiene	10 U
4-methylphenol	4 J	2,4,6-trichlorophenol	10 U
n-nitroso-di-n-propylamine	10 U	2,4,5-trichlorophenol	50 U
hexachloroethane	10 U	2-chloronaphthalene	10 U
nitrobenzene	10 U	2-nitroaniline	50 U
isophorone	10 U	dimethyl phthalate	10 U
2-nitrophenol	10 U	acenaphthylene	3 J
2,4-dimethylphenol	10 U	2,6-dinitrotoluene	10 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
D - Compound analyzed at a secondary dilution factor.

Date Extracted: 09/13/90
Date Analyzed: 10/04/90

APPENDIX IX SEMIVOLATILE ORGANIC ANALYSIS (page 2)

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-2
Lab Sample ID: LL7714

Compound		Compound	
3-nitroaniline	50 U	anthracene	3 J
acenaphthene	14	di-n-butylphthalate	10 U
2,4-dinitrophenol	50 U	fluoranthene	3 J
4-nitrophenol	50 U	pyrene	5 J
dibenzofuran	10 U	butylbenzylphthalate	10 U
2,4-dinitrotoluene	10 U	3,3'-dichlorobenzidine	20 U
diethylphthalate	10 U	benzo(a)anthracene	10 U
4-chlorophenyl-phenylether	10 U	chrysene	10 U
fluorene	11	bis(2-ethylhexyl)phthalate	10 U
4-nitroaniline	50 U	di-n-octylphthalate	10 U
4,6-dinitro-2-methylphenol	50 U	benzo(b)fluoranthene	10 U
n-nitrosodiphenylamine[1]	10 U	benzo(k)fluoranthene	10 U
4-bromophenyl-phenylether	10 U	benzo(a)pyrene	10 U
hexachlorobenzene	10 U	indeno(1,2,3-cd)pyrene	10 U
pentachlorophenol	50 U	dibenzo(a,h)anthracene	10 U
phenanthrene	15	benzo(g,h,i)perylene	10 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
1 - Detected as diphenylamine.

Date Extracted: 09/13/90
Date Analyzed: 10/04/90

APPENDIX IX SEMIVOLATILE ORGANIC ANALYSIS (page 3)

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-2
Lab Sample ID: LL7714

n-nitrosodimethylamine	10 U	m-dinitrobenzene	10 U
2-picoline	70 U	pentachlorobenzene	20 U
n-nitrosomethylethylamine	10 U	2-naphthylamine	170 U
methyl methanesulfonate	10 U	1-naphthylamine	120 U
n-nitrosodiethylamine	10 U	2,3,4,6-tetrachlorophenol	10 U
ethyl methanesulfonate	10 U	5-nitro-o-toluidine	20 U
aniline	50 U	diphenylamine	10 U
pentachloroethane	20 U	tetraethyl dithiopyropho(2)	10 U
3-methylphenol	10 U	sym-trinitrobenzene	10 U
n-nitrosopyrrolidine	10 U	phenacetin	10 U
acetophenone	3 J	diallate	10 U
n-nitrosomorpholine	10 U	4-aminobiphenyl	50 U
o-toluidine	10 U	pronamide	30 U
n-nitrosopiperidine	10 U	pentachloronitrobenzene	20 U
o,o,o-triethylphosphorot(1)	10 U	dinoseb	20 U
2,6-dichlorophenol	10 U	4-nitroquinoline-1-oxide	10 U
hexachloropropene	20 U	methapyrilene	40 U
a,a-dimethylphenethylamine	10 U	aramite	10 U
n-nitrosodi-n-butylamine	20 U	p-(dimethylamino)azobenzene	30 U
p-phenylenediamine	50 U	3,3'-dimethylbenzidine	80 U
safrole	10 U	2-acetylaminofluorene	10 U
1,2,4,5-tetrachlorobenzene	10 U	7,12-dimethylbenz(a)anth(3)	20 U
isosafrole	10 U	hexachlorophene(4)	50 U
1,4-naphthoquinone	10 U	3-methylcholanthrene	30 U
1,2-diphenylhydrazine	10 U	benzidine	80 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
1 - o,o,o-triethylphosphorothioate
2 - tetraethyl dithiopyrophosphate
3 - 7,12-dimethylbenz(a)anthracene
4 - Quantitation limit for hexachlorophene in soil is ten times that listed.

Date Extracted: 09/13/90
Date Analyzed: 10/04/90

APPENDIX IX SEMIVOLATILE ORGANIC ANALYSIS

Results in ug/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-4
Lab Sample ID: LL7715

Compound		Compound	
phenol	10 U	bis(2-chloroethoxy)methane	10 U
bis(2-chloroethyl)ether	10 U	2,4-dichlorophenol	10 U
2-chlorophenol	10 U	1,2,4-trichlorobenzene	100
1,3-dichlorobenzene	8 J	naphthalene	4,400 D
1,4-dichlorobenzene	64	4-chloroaniline	10 U
benzyl alcohol	10 U	hexachlorobutadiene	10 U
1,2-dichlorobenzene	5 J	4-chloro-3-methylphenol	10 U
2-methylphenol	10 U	2-methylnaphthalene	630 D
bis(2-chloroisopropyl)ether	10 U	hexachlorocyclopentadiene	10 U
4-methylphenol	10 U	2,4,6-trichlorophenol	10 U
n-nitroso-di-n-propylamine	10 U	2,4,5-trichlorophenol	51 U
hexachloroethane	10 U	2-chloronaphthalene	10 U
nitrobenzene	10 U	2-nitroaniline	51 U
isophorone	10 U	dimethyl phthalate	10 U
2-nitrophenol	10 U	acenaphthylene	25
2,4-dimethylphenol	10 U	2,6-dinitrotoluene	10 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
D - Compound analyzed at a secondary dilution factor.

Date Extracted: 09/13/90
Date Analyzed: 10/04/90

APPENDIX IX SEMIVOLATILE ORGANIC ANALYSIS (page 2)

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-4
Lab Sample ID: LL7715

Compound		Compound	
3-nitroaniline	2 J	anthracene	17
acenaphthene	16	di-n-butylphthalate	10 U
2,4-dinitrophenol	51 U	fluoranthene	18
4-nitrophenol	51 U	pyrene	37
dibenzofuran	6 J	butylbenzylphthalate	10 U
2,4-dinitrotoluene	10 U	3,3'-dichlorobenzidine	20 U
diethylphthalate	10 U	benzo(a)anthracene	9 J
4-chlorophenyl-phenylether	10 U	chrysene	9 J
fluorene	53	bis(2-ethylhexyl)phthalate	10 U
4-nitroaniline	51 U	di-n-octylphthalate	10 U
4,6-dinitro-2-methylphenol	51 U	benzo(b)fluoranthene	4 J
n-nitrosodiphenylamine[1]	10 U	benzo(k)fluoranthene	6 J
4-bromophenyl-phenylether	10 U	benzo(a)pyrene	8 J
hexachlorobenzene	10 U	indeno(1,2,3-cd)pyrene	3 J
pentachlorophenol	51 U	dibenzo(a,h)anthracene	10 U
phenanthrene	94	benzo(g,h,i)perylene	4 J

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
1 - Detected as diphenylamine.

Date Extracted: 09/13/90
Date Analyzed: 10/04/90

APPENDIX IX SEMIVOLATILE ORGANIC ANALYSIS (page 3)

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-4
Lab Sample ID: LL7715

n-nitrosodimethylamine	10 U	m-dinitrobenzene	10 U
2-picoline	71 U	pentachlorobenzene	20 U
n-nitrosomethylethylamine	10 U	2-naphthylamine	170 U
methyl methanesulfonate	10 U	1-naphthylamine	120 U
n-nitrosodiethylamine	10 U	2,3,4,6-tetrachlorophenol	10 U
ethyl methanesulfonate	10 U	5-nitro-o-toluidine	20 U
aniline	51 U	diphenylamine	10 U
pentachloroethane	20 U	tetraethyl dithiopyropho(2)	10 U
3-methylphenol	10 U	sym-trinitrobenzene	10 U
n-nitrosopyrrolidine	10 U	phenacetin	10 U
acetophenone	10 U	diallate	10 U
n-nitrosomorpholine	10 U	4-aminobiphenyl	51 U
o-toluidine	10 U	pronamide	31 U
n-nitrosopiperidine	10 U	pentachloronitrobenzene	20 U
o,o,o-triethylphosphorot(1)	10 U	dinoseb	20 U
2,6-dichlorophenol	10 U	4-nitroquinoline-1-oxide	10 U
hexachloropropene	20 U	methapyrilene	41 U
a,a-dimethylphenethylamine	10 U	aramite	10 U
n-nitrosodi-n-butylamine	20 U	p-(dimethylamino)azobenzene	31 U
p-phenylenediamine	51 U	3,3'-dimethylbenzidine	82 U
safrole	10 U	2-acetylaminofluorene	10 U
1,2,4,5-tetrachlorobenzene	10 U	7,12-dimethylbenz(a)anth(3)	20 U
isosafrole	10 U	hexachlorophene(4)	51 U
1,4-naphthoquinone	10 U	3-methylcholanthrene	31 U
1,2-diphenylhydrazine	10 U	benzidine	80 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
1 - o,o,o-triethylphosphorothioate
2 - tetraethyl dithiopyrophosphate
3 - 7,12-dimethylbenz(a)anthracene
4 - Quantitation limit for hexachlorophene in soil is ten times that listed.

Date Extracted: 09/13/90
Date Analyzed: 10/04/90

APPENDIX IX SEMIVOLATILE ANALYSIS

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-10
Lab Sample ID: LL8934

Compound		Compound	
phenol	10 U	bis(2-chloroethoxy)methane	10 U
bis(2-chloroethyl)ether	10 U	2,4-dichlorophenol	10 U
2-chlorophenol	10 U	1,2,4-trichlorobenzene	10 U
1,3-dichlorobenzene	10 U	naphthalene	10 U
1,4-dichlorobenzene	10 U	4-chloroaniline	10 U
benzyl alcohol	10 U	hexachlorobutadiene	10 U
1,2-dichlorobenzene	10 U	4-chloro-3-methylphenol	10 U
2-methylphenol	10 U	2-methylnaphthalene	10 U
bis(2-chloroisopropyl)ether	10 U	hexachlorocyclopentadiene	10 U
4-methylphenol	10 U	2,4,6-trichlorophenol	10 U
n-nitroso-di-n-propylamine	10 U	2,4,5-trichlorophenol	50 U
hexachloroethane	10 U	2-chloronaphthalene	10 U
nitrobenzene	10 U	2-nitroaniline	50 U
isophorone	10 U	dimethyl phthalate	10 U
2-nitrophenol	10 U	acenaphthylene	10 U
2,4-dimethylphenol	10 U	2,6-dinitrotoluene	10 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Extracted: 10/04/90
Date Analyzed: 10/20/90
Dilution Factor: 1

APPENDIX IX SEMIVOLATILE ANALYSIS (continued)

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-10
Lab Sample ID: LL8934

Compound		Compound	
3-nitroaniline	50 U	anthracene	10 U
acenaphthene	10 U	di-n-butylphthalate	10 U
2,4-dinitrophenol	50 U	fluoranthene	10 U
4-nitrophenol	50 U	pyrene	10 U
dibenzofuran	10 U	butylbenzylphthalate	10 U
2,4-dinitrotoluene	10 U	3,3'-dichlorobenzidine	20 U
diethylphthalate	10 U	benzo(a)anthracene	10 U
4-chlorophenyl-phenylether	10 U	chrysene	10 U
fluorene	10 U	bis(2-ethylhexyl)phthalate	10 U
4-nitroaniline	50 U	di-n-octylphthalate	10 U
4,6-dinitro-2-methylphenol	50 U	benzo(b)fluoranthene	10 U
n-nitrosodiphenylamine[1]	10 U	benzo(k)fluoranthene	10 U
4-bromophenyl-phenylether	10 U	benzo(a)pyrene	10 U
hexachlorobenzene	10 U	indeno(1,2,3-cd)pyrene	10 U
pentachlorophenol	50 U	dibenzo(a,h)anthracene	10 U
phenanthrene	10 U	benzo(g,h,i)perylene	10 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
1 - Detected as diphenylamine.

Date Extracted: 10/04/90
Date Analyzed: 10/20/90
Dilution Factor: 1

APPENDIX IX SEMIVOLATILE ANALYSIS (continued)

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-10
Lab Sample ID: LL8934

n-nitrosodimethylamine	10 U	m-dinitrobenzene	10 U
2-picoline	70 U	pentachlorobenzene	20 U
n-nitrosomethylethylamine	10 U	2-naphthylamine	170 U
methyl methanesulfonate	10 U	1-naphthylamine	120 U
n-nitrosodiethylamine	10 U	2,3,4,6-tetrachlorophenol	10 U
ethyl methanesulfonate	10 U	5-nitro-o-toluidine	20 U
aniline	50 U	diphenylamine	10 U
pentachloroethane	20 U	tetraethyl dithiopyropho(3)	10 U
3-methylphenol	10 U	sym-trinitrobenzene	10 U
n-nitrosopyrrolidine	10 U	phenacetin	10 U
acetophenone	10 U	diallate	10 U
n-nitrosomorpholine	10 U	4-aminobiphenyl	50 U
o-toluidine	10 U	pronamide	30 U
n-nitrosopiperidine	10 U	pentachloronitrobenzene	20 U
o,o,o-triethylphosphorot(2)	10 U	dinoseb	20 U
2,6-dichlorophenol	10 U	4-nitroquinoline-1-oxide	10 U
hexachloropropene	20 U	methapyrilene	40 U
a,a-dimethylphenethylamine	10 U	aramite	10 U
n-nitrosodi-n-butylamine	20 U	p-(dimethylamino)azobenzene	30 U
p-phenylenediamine	50 U	3,3'-dimethylbenzidine	80 U
safrole	10 U	2-acetylaminofluorene	10 U
1,2,4,5-tetrachlorobenzene	10 U	7,12-dimethylbenz(a)anth(4)	20 U
isosafrole	10 U	hexachlorophene	50 U
1,4-naphthoquinone	10 U	3-methylcholanthrene	30 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
2 - o,o,o-triethylphosphorothioate
3 - tetraethyl dithiopyrophosphate
4 - 7,12-dimethylbenz(a)anthracene

Date Extracted: 10/04/90
Date Analyzed: 10/20/90
Dilution Factor: 1

EXTRACTABLE ORGANIC COMPOUNDS ANALYSIS

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-10
Lab Sample ID: LL8934

benzidine	50 U
1,2-diphenylhydrazine	10 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date Extracted: 10/04/90
Date Analyzed: 10/20/90

APPENDIX IX SEMIVOLATILE ANALYSIS

Results in ug/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-11
Lab Sample ID: LL8935

Compound		Compound	
phenol	10 U	bis(2-chloroethoxy)methane	10 U
bis(2-chloroethyl)ether	10 U	2,4-dichlorophenol	10 U
2-chlorophenol	10 U	1,2,4-trichlorobenzene	4 J
1,3-dichlorobenzene	14	naphthalene	250
1,4-dichlorobenzene	25	4-chloroaniline	10 U
benzyl alcohol	10 U	hexachlorobutadiene	10 U
1,2-dichlorobenzene	4 J	4-chloro-3-methylphenol	10 U
2-methylphenol	10 U	2-methylnaphthalene	13
bis(2-chloroisopropyl)ether	10 U	hexachlorocyclopentadiene	10 U
4-methylphenol	10 U	2,4,6-trichlorophenol	10 U
n-nitroso-di-n-propylamine	10 U	2,4,5-trichlorophenol	50 U
hexachloroethane	10 U	2-chloronaphthalene	10 U
nitrobenzene	10 U	2-nitroaniline	50 U
isophorone	10 U	dimethyl phthalate	10 U
2-nitrophenol	10 U	acenaphthylene	10 U
2,4-dimethylphenol	10 U	2,6-dinitrotoluene	10 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Extracted: 10/04/90
Date Analyzed: 10/20/90
Dilution Factor: 1

APPENDIX IX SEMIVOLATILE ANALYSIS (continued)

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-11
Lab Sample ID: LL8935

Compound		Compound	
3-nitroaniline	50 U	anthracene	10 U
acenaphthene	10 U	di-n-butylphthalate	10 U
2,4-dinitrophenol	50 U	fluoranthene	10 U
4-nitrophenol	50 U	pyrene	10 U
dibenzofuran	10 U	butylbenzylphthalate	10 U
2,4-dinitrotoluene	10 U	3,3'-dichlorobenzidine	20 U
diethylphthalate	10 U	benzo(a)anthracene	10 U
4-chlorophenyl-phenylether	10 U	chrysene	10 U
fluorene	10 U	bis(2-ethylhexyl)phthalate	10 U
4-nitroaniline	50 U	di-n-octylphthalate	10 U
4,6-dinitro-2-methylphenol	50 U	benzo(b)fluoranthene	10 U
n-nitrosodiphenylamine[1]	10 U	benzo(k)fluoranthene	10 U
4-bromophenyl-phenylether	10 U	benzo(a)pyrene	10 U
hexachlorobenzene	10 U	indeno(1,2,3-cd)pyrene	10 U
pentachlorophenol	50 U	dibenzo(a,h)anthracene	10 U
phenanthrene	3 J	benzo(g,h,i)perylene	10 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
1 - Detected as diphenylamine.

Date Extracted: 10/04/90
Date Analyzed: 10/20/90
Dilution Factor: 1

APPENDIX IX SEMIVOLATILE ANALYSIS (continued)

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-11
Lab Sample ID: LL8935

n-nitrosodimethylamine	10 U	m-dinitrobenzene	10 U
2-picoline	70 U	pentachlorobenzene	20 U
n-nitrosomethylethylamine	10 U	2-naphthylamine	170 U
methyl methanesulfonate	10 U	1-naphthylamine	120 U
n-nitrosodiethylamine	10 U	2,3,4,6-tetrachlorophenol	10 U
ethyl methanesulfonate	10 U	5-nitro-o-toluidine	20 U
aniline	50 U	diphenylamine	10 U
pentachloroethane	20 U	tetraethyl dithiopyropho(3)	10 U
3-methylphenol	10 U	sym-trinitrobenzene	10 U
n-nitrosopyrrolidine	10 U	phenacetin	10 U
acetophenone	10 U	diallate	10 U
n-nitrosomorpholine	10 U	4-aminobiphenyl	50 U
o-toluidine	10 U	pronamide	30 U
n-nitrosopiperidine	10 U	pentachloronitrobenzene	20 U
o,o,o-triethylphosphorot(2)	10 U	dinoseb	20 U
2,6-dichlorophenol	10 U	4-nitroquinoline-1-oxide	10 U
hexachloropropene	20 U	methapyrilene	40 U
a,a-dimethylphenethylamine	10 U	aramite	10 U
n-nitrosodi-n-butylamine	20 U	p-(dimethylamino)azobenzene	30 U
p-phenylenediamine	50 U	3,3'-dimethylbenzidine	80 U
safrole	10 U	2-acetylaminofluorene	10 U
1,2,4,5-tetrachlorobenzene	10 U	7,12-dimethylbenz(a)anth(4)	20 U
isosafrole	10 U	hexachlorophene	50 U
1,4-naphthoquinone	10 U	3-methylcholanthrene	30 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
2 - o,o,o-triethylphosphorothioate
3 - tetraethyl dithiopyrophosphate
4 - 7,12-dimethylbenz(a)anthracene

Date Extracted: 10/04/90
Date Analyzed: 10/20/90
Dilution Factor: 1

EXTRACTABLE ORGANIC COMPOUNDS ANALYSIS

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-11
Lab Sample ID: LL8935

benzidine	50 U
1,2-diphenylhydrazine	10 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date Extracted: 10/04/90
Date Analyzed: 10/20/90

SEMIVOLATILE TARGET COMPOUND LIST

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-12
Lab Sample ID: LL9185

Compound		Compound	
phenol	3 J	bis(2-chloroethoxy)methane	10 U
bis(2-chloroethyl)ether	10 U	2,4-dichlorophenol	10 U
2-chlorophenol	10 U	1,2,4-trichlorobenzene	260
1,3-dichlorobenzene	10 U	naphthalene	10 U
1,4-dichlorobenzene	6 J	4-chloroaniline	10 U
benzyl alcohol	10 U	hexachlorobutadiene	10 U
1,2-dichlorobenzene	2 J	4-chloro-3-methylphenol	10 U
2-methylphenol	10 U	2-methylnaphthalene	10 U
bis(2-chloroisopropyl)ether	10 U	hexachlorocyclopentadiene	10 U
4-methylphenol	10 U	2,4,6-trichlorophenol	10 U
n-nitroso-di-n-propylamine	10 U	2,4,5-trichlorophenol	50 U
hexachloroethane	10 U	2-chloronaphthalene	10 U
nitrobenzene	10 U	2-nitroaniline	50 U
isophorone	10 U	dimethyl phthalate	10 U
2-nitrophenol	10 U	acenaphthylene	10 U
2,4-dimethylphenol	10 U	2,6-dinitrotoluene	10 U
benzoic acid	50 U		

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Extracted: 10/09/90
Date Analyzed: 10/20/90

SEMIVOLATILE TARGET COMPOUND LIST

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-12
Lab Sample ID: LL9185

Compound		Compound	
3-nitroaniline	50 U	anthracene	10 U
acenaphthene	10 U	di-n-butylphthalate	10 U
2,4-dinitrophenol	50 U	fluoranthene	10 U
4-nitrophenol	50 U	pyrene	10 U
dibenzofuran	10 U	butylbenzylphthalate	10 U
2,4-dinitrotoluene	10 U	3,3'-dichlorobenzidine	20 U
diethylphthalate	10 U	benzo(a)anthracene	10 U
4-chlorophenyl-phenylether	10 U	chrysene	10 U
fluorene	10 U	bis(2-ethylhexyl)phthalate	10 U
4-nitroaniline	50 U	di-n-octylphthalate	10 U
4,6-dinitro-2-methylphenol	50 U	benzo(b)fluoranthene	10 U
n-nitrosodiphenylamine[1]	10 U	benzo(k)fluoranthene	10 U
4-bromophenyl-phenylether	10 U	benzo(a)pyrene	10 U
hexachlorobenzene	10 U	indeno(1,2,3-cd)pyrene	10 U
pentachlorophenol	50 U	dibenzo(a,h)anthracene	10 U
phenanthrene	10 U	benzo(g,h,i)perylene	10 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
1 - Detected as diphenylamine.

Date Extracted: 10/09/90
Date Analyzed: 10/20/90

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 24, 1990

Client Project ID: GE Pittsfield/AY03701 Job Number: GECP 46844

SEMIVOLATILE TARGET COMPOUND LIST

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-13
Lab Sample ID: LL9186

Compound		Compound	
phenol	20 U	bis(2-chloroethoxy)methane	20 U
bis(2-chloroethyl)ether	20 U	2,4-dichlorophenol	20 U
2-chlorophenol	20 U	1,2,4-trichlorobenzene	20 U
1,3-dichlorobenzene	35	naphthalene	210
1,4-dichlorobenzene	53	4-chloroaniline	20 U
benzyl alcohol	20 U	hexachlorobutadiene	20 U
1,2-dichlorobenzene	20 U	4-chloro-3-methylphenol	20 U
2-methylphenol	20 U	2-methylnaphthalene	59
bis(2-chloroisopropyl)ether	20 U	hexachlorocyclopentadiene	20 U
4-methylphenol	20 U	2,4,6-trichlorophenol	20 U
n-nitroso-di-n-propylamine	20 U	2,4,5-trichlorophenol	100 U
hexachloroethane	20 U	2-chloronaphthalene	20 U
nitrobenzene	20 U	2-nitroaniline	100 U
isophorone	20 U	dimethyl phthalate	20 U
2-nitrophenol	20 U	acenaphthylene	5 J
2,4-dimethylphenol	20 U	2,6-dinitrotoluene	20 U
benzoic acid	100 U		

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Extracted: 10/09/90
Date Analyzed: 10/20/90

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 24, 1990

Client Project ID: GE Pittsfield/AY03701 Job Number: GECP 46844

SEMIVOLATILE TARGET COMPOUND LIST

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-13
Lab Sample ID: LL9186

Compound		Compound	
3-nitroaniline	100 U	anthracene	15 J
acenaphthene	32	di-n-butylphthalate	20 U
2,4-dinitrophenol	100 U	fluoranthene	20
4-nitrophenol	100 U	pyrene	33
dibenzofuran	20 U	butylbenzylphthalate	20 U
2,4-dinitrotoluene	20 U	3,3'-dichlorobenzidine	40 U
diethylphthalate	20 U	benzo(a)anthracene	10 J
4-chlorophenyl-phenylether	20 U	chrysene	10 J
fluorene	22	bis(2-ethylhexyl)phthalate	20 U
4-nitroaniline	100 U	di-n-octylphthalate	20 U
4,6-dinitro-2-methylphenol	100 U	benzo(b)fluoranthene	4 J
n-nitrosodiphenylamine[1]	20 U	benzo(k)fluoranthene	5 J
4-bromophenyl-phenylether	20 U	benzo(a)pyrene	7 J
hexachlorobenzene	20 U	indeno(1,2,3-cd)pyrene	20 U
pentachlorophenol	100 U	dibenzo(a,h)anthracene	20 U
phenanthrene	63	benzo(g,h,i)perylene	20 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
1 - Detected as diphenylamine.

Date Extracted: 10/09/90
Date Analyzed: 10/20/90

SECTION 3

ORGANOCHLORINE PESTICIDES AND PCBs (GROUNDWATER)

LS-2	-	Groundwater Samples from Well LS-2
LS-4	-	Groundwater Samples from Well LS-4
LS-10	-	Groundwater Samples from Well LS-10
LS-11	-	Groundwater Samples from Well LS-11
LS-12	-	Groundwater Samples from Well LS-12
LS-13	-	Groundwater Samples from Well LS-13

APPENDIX IX ORGANOCHLORINE PESTICIDES

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-2
Lab Sample ID: LL7716

Compound			Compound		
α-BHC	0.5	U	methoxychlor	20	U*
β-BHC	0.6	U*	chlordane	60	U
δ-BHC	0.5	U	toxaphene	8	U*
γ-BHC (lindane)	0.7	U*	Aroclor 1016	5	U*
heptachlor	0.5	U	Aroclor 1221	8	U*
aldrin	10	U*	Aroclor 1232	10	U*
heptachlor epoxide	10	U*	Aroclor 1242	6	U*
endosulfan I	30	U*	Aroclor 1248	10	U*
dieldrin	10	U	Aroclor 1254	900	
4,4'-DDE	4	U	Aroclor 1260	100	U*
endrin	30	U*	endrin aldehyde	2	U*
endosulfan II	30	U*	isodrin	2	U*
4,4'-DDD	30	U*	kepone	80	U*
endosulfan sulfate	20	U*	chlorobenzilate	400	U*
4,4'-DDT	30	U*			

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
* - Elevated detection limits due to matrix interferences and interferences caused by the presence of Aroclor 1254.

Date Extracted: 09/13/90
Date Analyzed: 10/01/90

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 15, 1990

Client Project ID: Lyman St./AY03701

Job Number: GECP 46636

APPENDIX IX ORGANOCHLORINE PESTICIDES

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-4
Lab Sample ID: LL7717

Compound		Compound	
α-BHC	0.5 U	methoxychlor	1 U
β-BHC	4 U**	chlordane	1 U
δ-BHC	0.5 U	toxaphene	1 U
γ-BHC (lindane)	0.5 U	Aroclor 1016	40 U**
heptachlor	1 U	Aroclor 1221	30 U**
aldrin	0.5 U	Aroclor 1232	20 U**
heptachlor epoxide	0.5 U	Aroclor 1242	60 U**
endosulfan I	0.5 U	Aroclor 1248	20 U**
dieldrin	0.5 U	Aroclor 1254	9 *
4,4'-DDE	0.5 U	Aroclor 1260	1 U
endrin	0.5 U	endrin aldehyde	1 U
endosulfan II	0.5 U	isodrin	0.5 U
4,4'-DDD	0.5 U	kepone	0.5 U
endosulfan sulfate	0.5 U	chlorobenzilate	1 U
4,4'-DDT	0.5 U		

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
* - Altered Aroclor pattern.
** - Elevated detection limit due to sample matrix interferences.

Date Extracted: 09/13/90
Date Analyzed: 10/01/90

APPENDIX IX ORGANOCHLORINE PESTICIDES AND PCBs

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-10
Lab Sample ID: LL8931

α-BHC	0.050	U	methoxychlor	0.50	U
β-BHC	0.050	U	chlordane	0.50	U
δ-BHC	0.050	U	toxaphene	1.0	U
γ-BHC (lindane)	0.050	U	Aroclor 1016	0.50	U
heptachlor	0.050	U	Aroclor 1221	0.50	U
aldrin	0.050	U	Aroclor 1232	0.50	U
heptachlor epoxide	0.050	U	Aroclor 1242	0.50	U
endosulfan I	0.050	U	Aroclor 1248	0.50	U
dieldrin	0.10	U	Aroclor 1254	1.8	
4,4'-DDE	0.10	U	Aroclor 1260	1.0	U
endrin	0.10	U	endrin aldehyde	0.10	U
endosulfan II	0.10	U	isodrin	0.050	U
4,4'-DDD	0.10	U	kepone	0.10	U
endosulfan sulfate	0.10	U	chlorobenzilate	0.50	U
4,4'-DDT	0.10	U			

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date Extracted: 10/05/90
Date Analyzed: 10/11/90
Dilution Factor: 1

APPENDIX IX ORGANOCHLORINE PESTICIDES AND PCBs

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-11
Lab Sample ID: LL8932

α-BHC	0.10	U	methoxychlor	1.0	U
β-BHC	0.40	D	chlordane	1.0	U
δ-BHC	0.10	U	toxaphene	2.1	U
γ-BHC (lindane)	0.10	U	Aroclor 1016	1.0	U
heptachlor	0.10	U	Aroclor 1221	1.0	U
aldrin	1.3	D	Aroclor 1232	1.0	U
heptachlor epoxide	0.10	U	Aroclor 1242	1.0	U
endosulfan I	0.10	U	Aroclor 1248	1.0	U
dieldrin	0.21	U	Aroclor 1254	120	D
4,4'-DDE	0.21	U	Aroclor 1260	2.1	U
endrin	0.21	U	endrin aldehyde	0.21	U
endosulfan II	0.21	U	isodrin	0.10	U
4,4'-DDD	0.21	U	kepone	0.21	U
endosulfan sulfate	0.21	U	chlorobenzilate	1.0	U
4,4'-DDT	0.21	U			

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
D - Compound analyzed at a secondary dilution factor.

Date Extracted: 10/05/90
Date Analyzed: 10/12/90
Dilution Factor: 2

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
December 6, 1990

Client Project ID: GE - Lyman St./AY03701

Job Number: GECP 46829

PESTICIDE AND PCB TARGET COMPOUND LIST

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-12
Lab Sample ID: LL9052

Compound		Compound	
α-BHC	1.0 U	endosulfan sulfate	2.0 U
β-BHC	1.0 U	4,4'-DDT	2.0 U
δ-BHC	1.0 U	methoxychlor	10 U
γ-BHC (lindane)	1.0 U	endrin ketone	2.0 U
heptachlor	1.0 U	α-chlordane	10 U
aldrin	1.0 U	γ-chlordane	10 U
heptachlor epoxide	1.0 U	toxaphene	20 U
endosulfan I	7.8 F	Aroclor 1016	10 U
dieldrin	2.0 U	Aroclor 1221	10 U
4,4'-DDE	2.0 U	Aroclor 1232	10 U
endrin	2.0 U	Aroclor 1242	10 U
endosulfan II	2.0 U	Aroclor 1248	10 U
4,4'-DDD	2.0 U	Aroclor 1254	820 F
		Aroclor 1260	20 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
F - Peak off scale and therefore out of linear range.

Date of Extraction: 10/05/90
Date of Analysis: 10/11/90
Dilution Factor: 20

PESTICIDE AND PCB TARGET COMPOUND LIST

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-12 DL
Lab Sample ID: LL9052 DL

Compound		Compound	
α-BHC	10 U	endosulfan sulfate	20 U
β-BHC	10 U	4,4'-DDT	20 U
δ-BHC	10 U	methoxychlor	100 U
γ-BHC (lindane)	10 U	endrin ketone	20 U
heptachlor	10 U	α-chlordane	100 U
aldrin	10 U	γ-chlordane	100 U
heptachlor epoxide	10 U	toxaphene	200 U
endosulfan I	11 D	Aroclor 1016	100 U
dieldrin	20 U	Aroclor 1221	100 U
4,4'-DDE	20 U	Aroclor 1232	100 U
endrin	20 U	Aroclor 1242	100 U
endosulfan II	20 U	Aroclor 1248	100 U
4,4'-DDD	20 U	Aroclor 1254	1,200 D
		Aroclor 1260	200 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
D - Compound analyzed at a secondary dilution factor.

Date of Extraction: 10/05/90
Date of Analysis: 10/11/90
Dilution Factor: 200

PESTICIDE AND PCB TARGET COMPOUND LIST

Results in ug/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-13
Lab Sample ID: LL9053

Compound		Compound	
α-BHC	2.5 U	endosulfan sulfate	5.0 U
β-BHC	2.5 U	4,4'-DDT	5.0 U
δ-BHC	2.5 U	methoxychlor	25 U
γ-BHC (lindane)	2.5 U	endrin ketone	5.0 U
heptachlor	2.5 U	α-chlordane	25 U
aldrin	2.5 U	γ-chlordane	25 U
heptachlor epoxide	2.5 U	toxaphene	50 U
endosulfan I	2.5 U	Aroclor 1016	25 U
dieldrin	5.0 U	Aroclor 1221	25 U
4,4'-DDE	5.0 U	Aroclor 1232	25 U
endrin	5.0 U	Aroclor 1242	25 U
endosulfan II	5.0 U	Aroclor 1248	25 U
4,4'-DDD	5.0 U	Aroclor 1254	2,100
		Aroclor 1260	50 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date of Extraction: 10/05/90
Date of Analysis: 10/17/90
Dilution Factor: 50

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
December 6, 1990

Client Project ID: GE - Lyman St./AY03701 Job Number: GECP 46829

PESTICIDE AND PCB TARGET COMPOUND LIST

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-13 DL
Lab Sample ID: LL9053 DL

Compound		Compound	
α-BHC	25 U	endosulfan sulfate	50 U
β-BHC	25 U	4,4'-DDT	50 U
δ-BHC	25 U	methoxychlor	250 U
γ-BHC (lindane)	25 U	endrin ketone	50 U
heptachlor	25 U	α-chlordane	250 U
aldrin	25 U	γ-chlordane	250 U
heptachlor epoxide	25 U	toxaphene	500 U
endosulfan I	25 U	Aroclor 1016	250 U
dieldrin	50 U	Aroclor 1221	250 U
4,4'-DDE	50 U	Aroclor 1232	250 U
endrin	50 U	Aroclor 1242	250 U
endosulfan II	50 U	Aroclor 1248	250 U
4,4'-DDD	50 U	Aroclor 1254	1,800 D
		Aroclor 1260	500 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
D - Compound analyzed at a secondary dilution factor.

Date of Extraction: 10/05/90
Date of Analysis: 10/17/90
Dilution Factor: 500

SECTION 4

ORGANOPHOSPHORUS PESTICIDES AND HERBICIDES (GROUNDWATER)

LS-2	-	Groundwater Samples from Well LS-2
LS-4	-	Groundwater Samples from Well LS-4
LS-10	-	Groundwater Samples from Well LS-10
LS-11	-	Groundwater Samples from Well LS-11

Client: Geraghty & Miller
Work Order: X0-09-115
00911502

IT ANALYTICAL SERVICES
CINCINNATI, OH

Appendix IX Organophosphorus Pesticides

Client Sample ID: Water # LL718
L S-Z

Lab Sample ID: X0-09-115-02

CAS Number		ug/L
298-04-4	Disulfoton	0.2 U
52-85-7	Famphur	0.2 U
298-00-0	Methyl Parathion	0.2 U
56-38-2	Parathion	0.2 U
298-02-2	Phorate	0.2 U
3689-24-5	Sulfotep	0.2 U
297-97-2	Thionazin	0.2 U
	o,o,o-Triethyl-phosphorothioate	0.2 U

Client: Geraghty & Miller
Work Order: XO-09-115
00911508

IT ANALYTICAL SERVICES
CINCINNATI, OH

Appendix IX Herbicides

Client Sample ID: Water # LL7720
LS-2

Lab Sample ID: XO-09-115-04

CAS Number		ug/L	
93-76-5	2,4,5-T	5	U
92-72-1	2,4,5-TP (Silvex)	5	U
94-75-7	2,4-D	19	U

Client: Geraghty & Miller
Work Order: XO-09-115
00911503

IT ANALYTICAL SERVICES
CINCINNATI, OH

Appendix IX Organophosphorus Pesticides

Client Sample ID: Water # LL719
LS-4

Lab Sample ID: XO-09-115-03

CAS Number		ug/L
298-04-4	Disulfoton	0.2 U
52-85-7	Famphur	0.2 U
298-00-0	Methyl Parathion	0.2 U
56-38-2	Parathion	0.2 U
298-02-2	Phorate	0.2 U
3689-24-5	Sulfotep	0.2 U
297-97-2	Thionazin	0.2 U
	o,o,o-Triethyl-phosphorothioate	0.2 U

Client: Geraghty & Miller
Work Order: XO-09-115
00911509

IT ANALYTICAL SERVICES
CINCINNATI, OH

Appendix IX Herbicides

Client Sample ID: Water # LL7721
LS-4

Lab Sample ID: XO-09-115-05

CAS Number		ug/L	
93-76-5	2,4,5-T	5	U
92-72-1	2,4,5-TP (Silvex)	5	U
94-75-7	2,4-D	19	U

Client: GECP
Work Order: XO-10-079
01007903

IT ANALYTICAL SERVICES
CINCINNATI, OH

Appendix IX Organo-Phosphorous Pesticides and Herbicides

Client Sample ID: Water # LL8937 LS10

Lab Sample ID: XO-10-079-01

CAS Number		ug/L
298-04-4	Disulfoton	0.2 U
52-85-7	Famphur	0.2 U
298-00-0	Methyl Parathion	0.2 U
56-38-2	Parathion	0.2 U
298-02-2	Phorate	0.2 U
3689-24-5	Sulfotep	0.2 U
297-97-2	Thionazin	0.2 U
	o,o,o-Triethyl-phosphorothioate	0.2 U
93-76-5	2,4-D	12 U
93-72-1	2,4,5-TP (Silvex)	1.7 U
93-75-7	2,4,5-T	2 U

Client: GECP
Work Order: X0-10-079
01007904

IT ANALYTICAL SERVICES
CINCINNATI, OH

Appendix IX Organo-Phosphorous Pesticides and Herbicides

Client Sample ID: Water # LL8938 LS11

Lab Sample ID: X0-10-079-02

CAS Number		ug/L
298-04-4	Disulfoton	0.2 U
52-85-7	Famphur	0.2 U
298-00-0	Methyl Parathion	0.2 U
56-38-2	Parathion	0.2 U
298-02-2	Phorate	0.2 U
3689-24-5	Sulfotep	0.2 U
297-97-2	Thionazin	0.2 U
	o,o,o-Triethyl-phosphorothioate	0.2 U
93-76-5	2,4-D	12 U
2-72-1	2,4,5-TP (Silvex)	1.7 U
4-75-7	2,4,5-T	2 U

SECTION 5

METALS, CYANIDES, AND SULFIDES (GROUNDWATER)

LS-2	-	Groundwater Samples from Well LS-2
LS-4	-	Groundwater Samples from Well LS-4
LS-10	-	Groundwater Samples from Well LS-10
LS-11	-	Groundwater Samples from Well LS-11
LS-12	-	Groundwater Samples from Well LS-12
LS-13	-	Groundwater Samples from Well LS-13

APPENDIX IX METALS ANALYSIS

Results in mg/liter (ppm)

Sample Matrix: Water

Client Sample ID:	Method Blank	LS-2	LS-4
Lab Sample ID:	PBWC3199	LL7712	LL7713
antimony	0.03 U	0.03 U	0.03 U
arsenic	0.03 U	0.03 U	0.03 U
barium	0.002 U	2.0	0.51
beryllium	0.001 U	0.001	0.002
cadmium	0.005 U	0.005 U	0.005 U
chromium	0.01 U	0.03	0.01
cobalt	0.02 U	0.02 U	0.02 U
copper	0.01 U	0.10	0.15
lead	0.03 U	0.35	0.12
mercury	NR	0.001 U	0.001 U
nickel	0.02 U	0.03	0.02 U
selenium	0.06 U	0.06 U	0.06 U
silver	0.005 U	0.005 U	0.005 U
thallium	0.03 U	0.03 U	0.03 U
tin	0.02 U	0.02 U	0.02 U
vanadium	0.01 U	0.02	0.01 U
zinc	0.005 U	0.19	0.22

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
NR - Not required.

Digestion Date: 09/27/90
Analysis Date: 10/03/90 (ICP)
10/04 - 10/05/90 (CVAA)

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 15, 1990

ient Project ID: Lyman St./AY03701 Job Number: GECP 46636

CLASSICAL PARAMETERS ANALYSIS

Results in mg/liter (ppm)

Sample Matrix: Water

Client Sample ID: / Lab Sample ID:	Method Blank P1575/P1553	LS-2 LL7710	LS-4 LL7711	Analysis Date
cyanide	0.01 U	0.02 U	0.01 U	09/25/90
sulfide	0.20 U	3.0	4.4	09/19/90

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

APPENDIX IX METALS ANALYSIS

Results in mg/liter (ppm)

Sample Matrix: Water

Client Sample ID:	Method Blank	LS-10	LS-11	FB-1
Lab Sample ID:	PBWC3352	LL8943	LL8944	LL8945
antimony	0.03 U	0.03 U	0.03 U	0.03 U
arsenic	0.03 U	0.03 U	0.03 U	0.03 U
barium	0.002 U	0.12	0.25	0.003
beryllium	0.001 U	0.001 U	0.001 U	0.001 U
cadmium	0.005 U	0.005 U	0.005 U	0.005 U
chromium	0.01 U	0.01 U	0.01 U	0.01 U
cobalt	0.02 U	0.02 U	0.02 U	0.02 U
copper	0.01 U	0.03	0.01	0.02
lead	0.03 U	0.03 U	0.03 U	0.03 U
mercury	NR	0.001 U	0.001 U	0.001 U
nickel	0.02 U	0.02 U	0.02 U	0.02 U
selenium	0.06 U	0.06 U	0.06 U	0.06 U
silver	0.005 U	0.005 U	0.005 U	0.005 U
thallium	0.03 U	0.03 U	0.03 U	0.03 U
tin	0.03	0.02 U	0.02 U	0.02 U
vanadium	0.01 U	0.01 U	0.01 U	0.01 U
zinc	0.019	0.21	0.029	0.12

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
NR - Not required.

Date Digested: 10/10/90
Date Analyzed: 10/18/90 (ICP)
10/15/90 (CVAA)

CLASSICAL PARAMETERS ANALYSIS

Results in mg/liter (ppm)

Sample Matrix: Water

Client Sample ID: / Lab Sample ID:	Method Blank P1641/P1619	LS-10 LL8940	LS-11 LL8941	FB-1 LL8942	Analysis Date
total cyanide	0.01 U	0.01 U	0.01 U	0.01 U	10/15/90
sulfides	0.20 U	0.20 U	0.20 U	0.20 U	10/08/90

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

TARGET ANALYTE LIST - INORGANICS

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-12
Lab Sample ID: LL9054

aluminum	544	
antimony	30.0	U
arsenic	2.0	U
barium	28.3	B
beryllium	1.0	U
cadmium	5.0	U
calcium	66,600	
chromium	10.0	U
cobalt	20.0	U
copper	16.5	B
iron	1,330	
lead	2.0	U
magnesium	23,100	
manganese	1,160	
mercury	0.2	U
nickel	20.0	U
potassium	1,130	B
selenium	2.0	U
silver	5.0	U
sodium	84,500	
thallium	2.0	U
vanadium	10.0	U
zinc	39.9	
% solids	0	

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
B - Value greater than instrument detection limit, but less than contract required quantitation limit.

Date of Digestion: 10/23/90
Date of Analysis: 11/07/90 (ICP)
10/26, 10/28, and 10/29/90 (GFAA)
10/30/90 (CVAA)

TARGET ANALYTE LIST - INORGANICS

Results in µg/liter (ppb)

Sample Matrix: Water

Client Sample ID: LS-13
Lab Sample ID: LL9055

aluminum	2,790	
antimony	30.0	U
arsenic	2.8	B
barium	330	
beryllium	1.0	U
cadmium	5.0	U
calcium	189,000	
chromium	10.0	U
cobalt	21.0	B
copper	27.3	
iron	10,500	
lead	6.1	
magnesium	60,300	
manganese	1,800	
mercury	0.23	
nickel	35.4	B
potassium	1,920	B
selenium	4.0	U
silver	5.6	B
sodium	27,200	
thallium	2.0	U
vanadium	10.0	U
zinc	298	
% solids	0	

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
B - Value greater than instrument detection limit, but less than contract required quantitation limit.

Date of Digestion: 10/23/90
Date of Analysis: 11/07/90 (ICP)
10/26, 10/28, and 10/29/90 (GFAA)
10/30/90 (CVAA)

CYANIDE ANALYSIS

Results in mg/liter (ppm)

Sample Matrix: Water

Client Sample ID	Lab Sample ID	Result
Method Blank	P1649	0.01 U
LS-12	LL9056	0.01 U
LS-13	LL9057	0.01 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date of Analysis: 10/17/90

SECTION 6

PCDDs/PCDFs (GROUNDWATER)

LS-2	-	Groundwater Samples from Well LS-2
LS-4	-	Groundwater Samples from Well LS-4
LL8928/LS-10	-	Groundwater Samples from Well LS-10
LL8929/LS-11	-	Groundwater Samples from Well LS-11

Kim Laisy
Geraghty & Miller

Date: October 15, 1990
Client Project ID: GMIA46636 TDL Project No.: GMIA482739

IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TENNESSEE

Dioxin/Furan Analysis - Modified Method 8280

Client Sample ID: LS-2 (Water, Sample Size: 1000 ml)
Sample Date: September 11, 1990
TDL Sample ID: BB2883
Extraction Date: September 17, 1990

Analyte	Conc. (ng/L)	Internal Standard	% Recovery
Isomer Specific Analysis Date: NA			
2,3,7,8-TCDD	NR	^{13}C-2,3,7,8-TCDD	NR
Totals Analysis Date: September 21, 1990			
Dioxins			
Total TCDD	ND(17.6)	^{13}C-2,3,7,8-TCDD	55
Total PeCDD	ND(5.9)	^{13}C-1,2,3,7,8-PeCDD	85
Total HxCDD	3.3	^{13}C-1,2,3,6,7,8-HxCDD	55
Furans			
Total TCDF	31.3	^{13}C-2,3,7,8-TCDF	67
Total PeCDF	138.	^{13}C-1,2,3,7,8-PeCDF	72
Total HxCDF	503.[a]	^{13}C-1,2,3,4,7,8-HxCDF	65

NA = Not applicable
NR = Not reportable.
[a]Above calibration range.

Kim Laisy
Geraghty & Miller
Date: October 15, 1990
Client Project ID: GMIA46636 TDL Project No.: GMIA482739

IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TENNESSEE

Dioxin/Furan Analysis - Modified Method 8280

Client Sample ID: LS-4 (Water, Sample Size: 100 ml)
Sample Date: September 11, 1990
TDL Sample ID: BB2884
Extraction Date: September 17, 1990

Analyte	Conc. (ng/L)	Internal Standard	% Recovery
Isomer Specific Analysis Date: NA			
2,3,7,8-TCDD	NR	^{13}C-2,3,7,8-TCDD	NR
Totals Analysis Date: September 21, 1990			
Dioxins			
Total TCDD	ND(33.9)[a]	^{13}C-2,3,7,8-TCDD	33[a]
Total PeCDD	ND(64.1)	^{13}C-1,2,3,7,8-PeCDD	75
Total HxCDD	ND(74.1)	^{13}C-1,2,3,6,7,8-HxCDD	44
Furans			
Total TCDF	1410[b]	^{13}C-2,3,7,8-TCDF	64
Total PeCDF	1670[b]	^{13}C-1,2,3,7,8-PeCDF	65
Total HxCDF	2710[b]	^{13}C-1,2,3,4,7,8-HxCDF	53

NA = Not applicable.
NR = Not reportable.
[a]Estimated value due to interference with ^{13}C internal standard.
[b]Possible interference from polychlorinated diphenyl ethers.

Kim Laisy
Geraghty & Miller
Date: October 30, 1990
Client Project ID: GECP46812

IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TENNESSEE

TDL Project No.: ITAB482775

Dioxin/Furan Analysis - Modified Method 8280

Client Sample ID: LL8928/LS-10 (Water)
Sample Date: October 2, 1990
TDL Sample ID: BB2931
Extraction Date: October 5, 1990

Analyte	Conc. (ng/L)	Internal Standard	% Recovery
Isomer Specific Analysis Date: October 16, 1990			
2,3,7,8-TCDD	ND(2.5)	^{13}C-2,3,7,8-TCDD	77
Totals Analysis Date: October 24, 1990			
Dioxins			
Total TCDD	ND(1.4)	^{13}C-2,3,7,8-TCDD	77
Total PeCDD	ND(2.8)	^{13}C-1,2,3,7,8-PeCDD	74
Total HxCDD	ND(4.0)	^{13}C-1,2,3,6,7,8-HxCDD	81
Furans			
Total TCDF	ND(1.0)	^{13}C-2,3,7,8-TCDF	93
Total PeCDF	ND(0.75)	^{13}C-1,2,3,7,8-PeCDF	62
Total HxCDF	ND(0.62)	^{13}C-1,2,3,4,7,8-HxCDF	64

Kim Laisy
Geraghty & Miller
Date: October 30, 1990
Client Project ID: GECP46812 TDL Project No.: ITAB482775

IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TENNESSEE

Dioxin/Furan Analysis - Modified Method 8280

Client Sample ID: LL8929/LS-11 (Water)
Sample Date: October 2, 1990
TDL Sample ID: BB2932
Extraction Date: October 5, 1990

Analyte	Conc. (ng/L)	Internal Standard	% Recovery
Isomer Specific Analysis Date: October 16, 1990			
2,3,7,8-TCDD	ND(4.9)	^{13}C-2,3,7,8-TCDD	75
Totals Analysis Date: October 25, 1990			
Dioxins			
Total TCDD	ND(2.2)	^{13}C-2,3,7,8-TCDD	89
Total PeCDD	ND(5.8)	^{13}C-1,2,3,7,8-PeCDD	74
Total HxCDD	ND(5.3)	^{13}C-1,2,3,6,7,8-HxCDD	88
Furans			
Total TCDF	ND(1.5)	^{13}C-2,3,7,8-TCDF	103
Total PeCDF	ND(2.3)	^{13}C-1,2,3,7,8-PeCDF	67
Total HxCDF	ND(4.5)	^{13}C-1,2,3,4,7,8-HxCDF	73

SECTION 7

VOLATILE ORGANICS (SOIL)

LS-Soil	-	Housatonic River Bank Surficial Soil Sample
LS-7 (14-16')	-	Soil Sample from Boring LS-7 at 14-16 feet
LS-8 (16-18')	-	Soil Sample from Boring LS-8 at 16-18 feet
LS-8 (20-22')	-	Soil Sample from Boring LS-8 at 20-22 feet
LS-8 (22-24')	-	Soil Sample from Boring LS-8 at 22-24 feet
LS-9 (14-16')	-	Soil Sample from Boring LS-9 at 14-16 feet
LS-9 (16-18')	-	Soil Sample from Boring LS-9 at 16-18 feet
LS-10 (10-12')	-	Soil Sample from Boring LS-10 at 10-12 feet
LS-11 (8-10')	-	Soil Sample from Boring LS-11 at 8-10 feet
LS-11 (10-12')	-	Soil Sample from Boring LS-11 at 10-12 feet
LS-11 (12-14')	-	Soil Sample from Boring LS-11 at 12-14 feet
LS-11 (14-16')	-	Soil Sample from Boring LS-11 at 14-16 feet
LS-11 (16-18')	-	Soil Sample from Boring LS-11 at 16-18 feet
LS-12 (20-22')	-	Soil Sample from Boring LS-12 at 20-22 feet

APPENDIX IX VOLATILE ORGANIC ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-7,14-16'
Lab Sample ID: LL7968

Compound		Compound	
acetone	10 J	cis-1,3-dichloropropene	7 U
acetonitrile	44 J	trans-1,3-dichloropropene	7 U
acrolein	13 U	1,4-dioxane	1,300 U
acrylonitrile	13 U	ethyl benzene	7 U
benzene	7 U	ethyl cyanide	130 U
bromodichloromethane	7 U	ethyl methacrylate	13 U
bromoform	7 U	2-hexanone	13 U
bromomethane	13 U	iodomethane	7 U
2-butanone	13 U	isobutyl alcohol	2,700 U
arbon disulfide	7 U	methacrylonitrile	13 U
arbon tetrachloride	7 U	methyl methacrylate	13 U
chlorobenzene	7 U	4-methyl-2-pentanone	32
chloroethane	13 U	methylene chloride	1 J
3-chloro-1-propene	7 U	pyridine	27,000 U
chloroform	1 J	styrene	7 U
chloromethane	13 U	1,1,1,2-tetrachloroethane	7 U
chloroprene	7 U	1,1,2,2-tetrachloroethane	7 U
1,2-dibromo-3-chloropropane	13 U	tetrachloroethene	7 U
dibromochloromethane	7 U	toluene	5 J
1,2-dibromoethane	7 U	1,1,1-trichloroethane	7 U
dibromomethane	7 U	1,1,2-trichloroethane	7 U
trans-1,4-dichloro-2-butene	27 U	trichloroethene	7 U
dichlorodifluoromethane	27 U	trichlorofluoromethane	7 U
1,1-dichloroethane	7 U	1,2,3-trichloropropane	27 U
1,2-dichloroethane	7 U	vinyl acetate	13 U
1,1-dichloroethene	7 U	vinyl chloride	13 U
trans-1,2-dichloroethene	7 U	xylenes (total)	7 U
1,2-dichloropropane	7 U	2-chloroethylvinyl ether	13 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an extimated value less than the detection limit.

ate of Analysis: 09/28/90
lution Factor: 1
Moisture: 25

General Electric Company
October 31, 1990

Client Project ID: GE Pittsfield, MA/AY03701

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Job Number: GECP 46687

APPENDIX IX VOLATILE ORGANIC ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-8(16-18')
Lab Sample ID: LL8194

acetone	1,500 U	cis-1,3-dichloropropene	740 U
acetonitrile	15,000 U	trans-1,3-dichloropropene	740 U
acrolein	1,500 U	1,4-dioxane	150,000 U
acrylonitrile	1,500 U	ethyl benzene	440 J
benzene	740 U	ethyl cyanide	15,000 U
bromodichloromethane	740 U	ethyl methacrylate	1,500 U
bromoform	740 U	2-hexanone	1,500 U
bromomethane	1,500 U	iodomethane	740 U
2-butanone	1,500 U	isobutyl alcohol	290,000 U
carbon disulfide	740 U	methacrylonitrile	1,500 U
carbon tetrachloride	740 U	methyl methacrylate	1,500 U
chlorobenzene	8,600	4-methyl-2-pentanone	1,500 U
chloroethane	1,500 U	methylene chloride	740 U
3-chloro-1-propene	740 U	pyridine	2,900,000 U
chloroform	740 U	styrene	740 U
chloromethane	1,500 U	1,1,1,2-tetrachloroethane	740 U
chloroprene	740 U	1,1,2,2-tetrachloroethane	740 U
1,2-dibromo-3-chloropropane	1,500 U	tetrachloroethene	740 U
dibromochloromethane	740 U	toluene	740 U
1,2-dibromoethane	740 U	1,1,1-trichloroethane	740 U
dibromomethane	740 U	1,1,2-trichloroethane	740 U
trans-1,4-dichloro-2-butene	2,900 U	trichloroethene	740 U
dichlorodifluoromethane	2,900 U	trichlorofluoromethane	740 U
1,1-dichloroethane	740 U	1,2,3-trichloropropane	2,900 U
1,2-dichloroethane	740 U	vinyl acetate	1,500 U
1,1-dichloroethene	740 U	vinyl chloride	1,500 U
trans-1,2-dichloroethene	740 U	xylenes (total)	7,700
1,2-dichloropropane	740 U	2-chloroethylvinyl ether	1,500

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an extimated value less than the detection limit.

Date of Analysis: 10/02/90
Dilution Factor: 1
% Moisture: 15

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 31, 1990

Client Project ID: GE Pittsfield, MA/AY03701 Job Number: GECP 46687

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS

Results in µg/kg (ppb)

Sample Matrix: Soil

Client Sample ID: LS-8(20-22')
Lab Sample ID: LL8185

Compound		Compound	
acrolein	5,000 U	1,1-dichloroethene	2,500 U
acrylonitrile	5,000 U	trans-1,2-dichloroethene	2,500 U
benzene	2,500 U	1,2-dichloropropane	2,500 U
bromodichloromethane	2,500 U	cis-1,3-dichloropropene	2,500 U
bromoform	2,500 U	trans-1,3-dichloropropene	2,500 U
bromomethane	5,000 U	ethyl benzene	28,000
carbon tetrachloride	2,500 U	methylene chloride	880 J
chlorobenzene	3,300	1,1,2,2-tetrachloroethane	2,500 U
chloroethane	5,000 U	tetrachloroethene	2,500 U
2-chloroethylvinyl ether	5,000 U	toluene	1,100 J
chloroform	2,500 U	1,1,1-trichloroethane	2,500 U
chloromethane	5,000 U	1,1,2-trichloroethane	2,500 U
dibromochloromethane	2,500 U	trichloroethene	2,500 U
1,1-dichloroethane	2,500 U	vinyl chloride	5,000 U
1,2-dichloroethane	2,500 U	trichlorofluoromethane	2,500 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Analyzed: 10/01/90

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS

Results in ug/kg (ppb)

Sample Matrix: Soil

Client Sample ID: LS-8(22-24')
Lab Sample ID: LL8186

Compound		Compound	
acrolein	10 U	1,1-dichloroethene	5 U
acrylonitrile	10 U	trans-1,2-dichloroethene	5 U
benzene	5 U	1,2-dichloropropane	5 U
bromodichloromethane	5 U	cis-1,3-dichloropropene	5 U
bromoform	5 U	trans-1,3-dichloropropene	5 U
bromomethane	10 U	ethyl benzene	80
carbon tetrachloride	5 U	methylene chloride	2 J
chlorobenzene	5 U	1,1,2,2-tetrachloroethane	5 U
chloroethane	10 U	tetrachloroethene	5 U
2-chloroethylvinyl ether	10 U	toluene	3 J
chloroform	5 U	1,1,1-trichloroethane	5 U
chloromethane	10 U	1,1,2-trichloroethane	5 U
dibromochloromethane	5 U	trichloroethene	5 U
1,1-dichloroethane	5 U	vinyl chloride	10 U
1,2-dichloroethane	5 U	trichlorofluoromethane	5 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Analyzed: 10/01/90

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

APPENDIX IX VOLATILE ORGANIC ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-9(14-16')
Lab Sample ID: LL8195

acetone	790 J	cis-1,3-dichloropropene	740 U
acetonitrile	18,000 U	trans-1,3-dichloropropene	740 U
acrolein	1,800 U	1,4-dioxane	180,000 U
acrylonitrile	1,800 U	ethyl benzene	2,400
benzene	740 U	ethyl cyanide	18,000 U
bromodichloromethane	740 U	ethyl methacrylate	1,800 U
bromoform	740 U	2-hexanone	1,800 U
bromomethane	1,800 U	iodomethane	740 U
2-butanone	1,800 U	isobutyl alcohol	350,000 U
carbon disulfide	740 U	methacrylonitrile	1,800 U
carbon tetrachloride	740 U	methyl methacrylate	1,800 U
chlorobenzene	1,000	4-methyl-2-pentanone	1,800 U
chloroethane	1,800 U	methylene chloride	420 JB
3-chloro-1-propene	740 U	pyridine	3,500,000 U
chloroform	260 J	styrene	740 U
chloromethane	1,800 U	1,1,1,2-tetrachloroethane	740 U
chloroprene	740 U	1,1,2,2-tetrachloroethane	740 U
1,2-dibromo-3-chloropropane	1,800 U	tetrachloroethene	740 U
dibromochloromethane	740 U	toluene	740 U
1,2-dibromoethane	740 U	1,1,1-trichloroethane	740 U
dibromomethane	740 U	1,1,2-trichloroethane	740 U
trans-1,4-dichloro-2-butene	3,500 U	trichloroethene	740 U
dichlorodifluoromethane	3,500 U	trichlorofluoromethane	740 U
1,1-dichloroethane	740 U	1,2,3-trichloropropane	3,500 U
1,2-dichloroethane	740 U	vinyl acetate	1,800 U
1,1-dichloroethene	740 U	vinyl chloride	1,800 U
trans-1,2-dichloroethene	740 U	xylenes (total)	2,200
1,2-dichloropropane	740 U	2-chloroethylvinyl ether	1,500

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an extimated value less than the detection limit.
B - Analyte was found in the blank as well as the sample.

Date of Analysis: 10/01/90
Dilution Factor: 1
% Moisture: 29

APPENDIX IX VOLATILE ORGANIC ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-9(14-16') RE
Lab Sample ID: LL8195

acetone	1,800 U	cis-1,3-dichloropropene	740 U
acetonitrile	18,000 U	trans-1,3-dichloropropene	740 U
acrolein	1,800 U	1,4-dioxane	180,000 U
acrylonitrile	1,800 U	ethyl benzene	3,900
benzene	740 U	ethyl cyanide	18,000 U
bromodichloromethane	740 U	ethyl methacrylate	1,800 U
bromoform	740 U	2-hexanone	1,800 U
bromomethane	1,800 U	iodomethane	740 U
2-butanone	1,800 U	isobutyl alcohol	350,000 U
carbon disulfide	740 U	methacrylonitrile	1,800 U
carbon tetrachloride	740 U	methyl methacrylate	1,800 U
chlorobenzene	1,300	4-methyl-2-pentanone	1,800 U
chloroethane	1,800 U	methylene chloride	200 J
3-chloro-1-propene	740 U	pyridine	3,500,000 U
chloroform	740 U	styrene	740 U
chloromethane	1,800 U	1,1,1,2-tetrachloroethane	740 U
chloroprene	740 U	1,1,2,2-tetrachloroethane	740 U
1,2-dibromo-3-chloropropane	1,800 U	tetrachloroethene	740 U
dibromochloromethane	740 U	toluene	740 U
1,2-dibromoethane	740 U	1,1,1-trichloroethane	740 U
dibromomethane	740 U	1,1,2-trichloroethane	740 U
trans-1,4-dichloro-2-butene	3,500 U	trichloroethene	740 U
dichlorodifluoromethane	3,500 U	trichlorofluoromethane	740 U
1,1-dichloroethane	740 U	1,2,3-trichloropropane	3,500 U
1,2-dichloroethane	740 U	vinyl acetate	1,800 U
1,1-dichloroethene	740 U	vinyl chloride	1,800 U
trans-1,2-dichloroethene	740 U	xylenes (total)	3,100
1,2-dichloropropane	740 U	2-chloroethylvinyl ether	1,500

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an extimated value less than the detection limit.

Date of Analysis: 10/02/90
Dilution Factor: 1
% Moisture: 29

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 31, 1990

Client Project ID: GE Pittsfield, MA/AY03701 Job Number: GECP 46687

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS

Results in µg/kg (ppb)

Sample Matrix: Soil

Client Sample ID: LS-9(16-18')
Lab Sample ID: LL8187R

Compound		Compound	
acrolein	50 U	1,1-dichloroethene	25 U
acrylonitrile	50 U	trans-1,2-dichloroethene	25 U
benzene	24 J	1,2-dichloropropane	25 U
bromodichloromethane	25 U	cis-1,3-dichloropropene	25 U
bromoform	25 U	trans-1,3-dichloropropene	25 U
bromomethane	50 U	ethyl benzene	630
carbon tetrachloride	25 U	methylene chloride	25 U
chlorobenzene	190	1,1,2,2-tetrachloroethane	25 U
chloroethane	50 U	tetrachloroethene	25 U
2-chloroethylvinyl ether	50 U	toluene	25 U
chloroform	25 U	1,1,1-trichloroethane	25 U
chloromethane	50 U	1,1,2-trichloroethane	25 U
dibromochloromethane	25 U	trichloroethene	25 U
1,1-dichloroethane	25 U	vinyl chloride	50 U
1,2-dichloroethane	25 U	trichlorofluoromethane	25 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Analyzed: 10/01/90

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
November 19, 1990

Client Project ID: GE Lyman St./AY03701

Job Number: GECP 46718

APPENDIX IX VOLATILE ORGANIC ANALYSIS

Results in ug/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-10(10-12')
Lab Sample ID: LL8363

Compound		Compound	
acetone	10 JB	cis-1,3-dichloropropene	5 U
acetonitrile	110 U	trans-1,3-dichloropropene	5 U
acrolein	11 U	1,4-dioxane	1,100 U
acrylonitrile	11 U	ethyl benzene	5 U
benzene	5 U	ethyl cyanide	110 U
bromodichloromethane	5 U	ethyl methacrylate	11 U
bromoform	5 U	2-hexanone	11 U
bromomethane	11 U	iodomethane	5 U
2-butanone	11 U	isobutyl alcohol	2,200 U
carbon disulfide	5 U	methacrylonitrile	11 U
carbon tetrachloride	5 U	methyl methacrylate	11 U
chlorobenzene	5 U	4-methyl-2-pentanone	11 U
chloroethane	11 U	methylene chloride	4 JB
3-chloro-1-propene	5 U	pyridine	22,000 U
chloroform	1 JB	styrene	5 U
chloromethane	11 U	1,1,1,2-tetrachloroethane	5 U
chloroprene	5 U	1,1,2,2-tetrachloroethane	5 U
1,2-dibromo-3-chloropropane	11 U	tetrachloroethene	5 U
dibromochloromethane	5 U	toluene	5 U
1,2-dibromoethane	5 U	1,1,1-trichloroethane	5 U
dibromomethane	5 U	1,1,2-trichloroethane	5 U
trans-1,4-dichloro-2-butene	22 U	trichloroethene	5 U
dichlorodifluoromethane	22 U	trichlorofluoromethane	5 U
1,1-dichloroethane	5 U	1,2,3-trichloropropane	22 U
1,2-dichloroethane	5 U	vinyl acetate	11 U
1,1-dichloroethene	5 U	vinyl chloride	11 U
trans-1,2-dichloroethene	5 U	xylenes (total)	5 U
1,2-dichloropropane	5 U	2-chloroethylvinyl ether	11 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an extimated value less than the detection limit.
B - Compound found in method blank.

Date of Analysis: 10/03/90
Dilution Factor: 1
% Moisture: 9

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 31, 1990

Client Project ID: GE Pittsfield, MA/AY03701 Job Number: GECP 46716

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS

Results in µg/kg (ppb)

Sample Matrix: Soil

Client Sample ID: LS-11(8-10')
Lab Sample ID: LL83310

Compound		Compound	
acrolein	1,300 U	1,1-dichloroethene	630 U
acrylonitrile	1,300 U	trans-1,2-dichloroethene	630 U
benzene	630 U	1,2-dichloropropane	630 U
bromodichloromethane	630 U	cis-1,3-dichloropropene	630 U
bromoform	630 U	trans-1,3-dichloropropene	630 U
bromomethane	1,300 U	ethyl benzene	630 U
carbon tetrachloride	630 U	methylene chloride	630 U
chlorobenzene	23,000	1,1,2,2-tetrachloroethane	630 U
chloroethane	1,300 U	tetrachloroethene	630 U
2-chloroethylvinyl ether	1,300 U	toluene	630 U
chloroform	630 U	1,1,1-trichloroethane	630 U
chloromethane	1,300 U	1,1,2-trichloroethane	630 U
dibromochloromethane	630 U	trichloroethene	2,200
1,1-dichloroethane	630 U	vinyl chloride	1,300 U
1,2-dichloroethane	630 U	trichlorofluoromethane	630 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Analyzed: 10/02/90

APPENDIX IX VOLATILE ORGANIC ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-11(10-12')
Lab Sample ID: LL8335

acetone	1,900 U	cis-1,3-dichloropropene	950 U
acetonitrile	19,000 U	trans-1,3-dichloropropene	950 U
acrolein	1,900 U	1,4-dioxane	190,000 U
acrylonitrile	1,900 U	ethyl benzene	950 U
benzene	950 U	ethyl cyanide	19,000 U
bromodichloromethane	950 U	ethyl methacrylate	1,900 U
bromoform	950 U	2-hexanone	1,900 U
bromomethane	1,900 U	iodomethane	950 U
2-butanone	1,900 U	isobutyl alcohol	380,000 U
carbon disulfide	950 U	methacrylonitrile	1,900 U
carbon tetrachloride	950 U	methyl methacrylate	1,900 U
chlorobenzene	45,000 E	4-methyl-2-pentanone	1,900 U
chloroethane	1,900 U	methylene chloride	250 J
3-chloro-1-propene	950 U	pyridine	3,800,000 U
chloroform	950 U	styrene	950 U
chloromethane	1,900 U	1,1,1,2-tetrachloroethane	950 U
chloroprene	950 U	1,1,2,2-tetrachloroethane	950 U
1,2-dibromo-3-chloropropane	1,900 U	tetrachloroethene	950 U
dibromochloromethane	950 U	toluene	950 U
1,2-dibromoethane	950 U	1,1,1-trichloroethane	950 U
dibromomethane	950 U	1,1,2-trichloroethane	950 U
trans-1,4-dichloro-2-butene	3,800 U	trichloroethene	780 J
dichlorodifluoromethane	3,800 U	trichlorofluoromethane	950 U
1,1-dichloroethane	950 U	1,2,3-trichloropropane	3,800 U
1,2-dichloroethane	950 U	vinyl acetate	1,900 U
1,1-dichloroethene	950 U	vinyl chloride	1,900 U
trans-1,2-dichloroethene	950 U	xylenes (total)	910 J
1,2-dichloropropane	950 U	2-chloroethylvinyl ether	1,900 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an extimated value less than the detection limit.
E - Value exceeds calibration range.

Date of Analysis: 10/02/90
Dilution Factor: 1
% Moisture: 34

APPENDIX IX VOLATILE ORGANIC ANALYSIS

Results in ug/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-11(10-12')DL
Lab Sample ID: LL8335 DL

acetone	19,000 U	cis-1,3-dichloropropene	9,500 U
acetonitrile	190,000 U	trans-1,3-dichloropropene	9,500 U
acrolein	19,000 U	1,4-dioxane	1,900,000 U
acrylonitrile	19,000 U	ethyl benzene	9,500 U
benzene	9,500 U	ethyl cyanide	190,000 U
bromodichloromethane	9,500 U	ethyl methacrylate	19,000 U
bromoform	9,500 U	2-hexanone	19,000 U
bromomethane	19,000 U	iodomethane	9,500 U
2-butanone	19,000 U	isobutyl alcohol	3,800,000 U
carbon disulfide	9,500 U	methacrylonitrile	19,000 U
carbon tetrachloride	9,500 U	methyl methacrylate	19,000 U
chlorobenzene	37,000 D	4-methyl-2-pentanone	19,000 U
chloroethane	19,000 U	methylene chloride	9,500 U
3-chloro-1-propene	9,500 U	pyridine	38,000,000 U
chloroform	9,500 U	styrene	9,500 U
chloromethane	19,000 U	1,1,1,2-tetrachloroethane	9,500 U
chloroprene	9,500 U	1,1,2,2-tetrachloroethane	9,500 U
1,2-dibromo-3-chloropropane	19,000 U	tetrachloroethene	9,500 U
dibromochloromethane	9,500 U	toluene	9,500 U
1,2-dibromoethane	9,500 U	1,1,1-trichloroethane	9,500 U
dibromomethane	9,500 U	1,1,2-trichloroethane	9,500 U
trans-1,4-dichloro-2-butene	38,000 U	trichloroethene	9,500 U
dichlorodifluoromethane	38,000 U	trichlorofluoromethane	9,500 U
1,1-dichloroethane	9,500 U	1,2,3-trichloropropane	38,000 U
1,2-dichloroethane	9,500 U	vinyl acetate	19,000 U
1,1-dichloroethene	9,500 U	vinyl chloride	19,000 U
trans-1,2-dichloroethene	9,500 U	xylenes (total)	9,500 U
1,2-dichloropropane	9,500 U	2-chloroethylvinyl ether	19,000 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an extimated value less than the detection limit.
D - Compound analyzed at a secondary dilution factor.

Date of Analysis: 10/02/90
Dilution Factor: 10
% Moisture: 34

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 31, 1990

Client Project ID: GE Pittsfield, MA/AY03701 Job Number: GECP 46716

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS

Results in µg/kg (ppb)

Sample Matrix: Soil

Client Sample ID: LS-11(12-14')
Lab Sample ID: LL8332

Compound		Compound	
acrolein	1,300 U	1,1-dichloroethene	630 U
acrylonitrile	1,300 U	trans-1,2-dichloroethene	630 U
benzene	630 U	1,2-dichloropropane	630 U
bromodichloromethane	630 U	cis-1,3-dichloropropene	630 U
bromoform	630 U	trans-1,3-dichloropropene	630 U
bromomethane	1,300 U	ethyl benzene	230 J
carbon tetrachloride	630 U	methylene chloride	230 J
chlorobenzene	13,000	1,1,2,2-tetrachloroethane	630 U
chloroethane	1,300 U	tetrachloroethene	630 U
2-chloroethylvinyl ether	1,300 U	toluene	630 U
chloroform	630 U	1,1,1-trichloroethane	630 U
chloromethane	1,300 U	1,1,2-trichloroethane	630 U
dibromochloromethane	630 U	trichloroethene	610 J
1,1-dichloroethane	630 U	vinyl chloride	1,300 U
1,2-dichloroethane	630 U	trichlorofluoromethane	630 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Analyzed: 10/02/90

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 31, 1990

Client Project ID: GE Pittsfield, MA/AY03701 Job Number: GECP 46716

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS

Results in ug/kg (ppb)

Sample Matrix: Soil

Client Sample ID: LS-11(14-16')
Lab Sample ID: LL8333

Compound		Compound	
acrolein	1,300 U	1,1-dichloroethene	630 U
acrylonitrile	1,300 U	trans-1,2-dichloroethene	630 U
benzene	630 U	1,2-dichloropropane	630 U
bromodichloromethane	630 U	cis-1,3-dichloropropene	630 U
bromoform	630 U	trans-1,3-dichloropropene	630 U
bromomethane	1,300 U	ethyl benzene	140 J
carbon tetrachloride	630 U	methylene chloride	300 J
chlorobenzene	11,000	1,1,2,2-tetrachloroethane	630 U
chloroethane	1,300 U	tetrachloroethene	630 U
2-chloroethylvinyl ether	1,300 U	toluene	630 U
chloroform	630 U	1,1,1-trichloroethane	630 U
chloromethane	1,300 U	1,1,2-trichloroethane	630 U
dibromochloromethane	630 U	trichloroethene	3,500
1,1-dichloroethane	630 U	vinyl chloride	1,300 U
1,2-dichloroethane	630 U	trichlorofluoromethane	630 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Analyzed: 10/02/90

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS

Results in µg/kg (ppb)

Sample Matrix: Soil

Client Sample ID: LS-11(16-18')
Lab Sample ID: LL8334R2

Compound		Compound	
acrolein	10 U	1,1-dichloroethene	5 U
acrylonitrile	10 U	trans-1,2-dichloroethene	5 U
benzene	5 U	1,2-dichloropropane	5 U
bromodichloromethane	5 U	cis-1,3-dichloropropene	5 U
bromoform	5 U	trans-1,3-dichloropropene	5 U
bromomethane	10 U	ethyl benzene	5 U
carbon tetrachloride	5 U	methylene chloride	4 J
chlorobenzene	51	1,1,2,2-tetrachloroethane	5 U
chloroethane	10 U	tetrachloroethene	5 U
2-chloroethylvinyl ether	10 U	toluene	5 U
chloroform	5 U	1,1,1-trichloroethane	5 U
chloromethane	10 U	1,1,2-trichloroethane	5 U
dibromochloromethane	5 U	trichloroethene	9
1,1-dichloroethane	5 U	vinyl chloride	10 U
1,2-dichloroethane	5 U	trichlorofluoromethane	5 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Analyzed: 10/02/90

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
November 19, 1990

Client Project ID: GE Lyman St./AY03701 Job Number: GECP 46718

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS

Results in µg/kg (ppb)

Sample Matrix: Soil

Client Sample ID: LS-12(20-22')
Lab Sample ID: LL8362R

Compound		Compound	
acrolein	50 U	1,1-dichloroethene	25 U
acrylonitrile	50 U	trans-1,2-dichloroethene	25 U
benzene	25 U	1,2-dichloropropane	25 U
bromodichloromethane	25 U	cis-1,3-dichloropropene	25 U
bromoform	25 U	trans-1,3-dichloropropene	25 U
bromomethane	50 U	ethyl benzene	25 U
carbon tetrachloride	310	methylene chloride	16 JB
chlorobenzene	25 U	1,1,2,2-tetrachloroethane	25 U
chloroethane	50 U	tetrachloroethene	200
2-chloroethylvinyl ether	50 U	toluene	18 J
chloroform	25 JB	1,1,1-trichloroethane	25 U
chloromethane	50 U	1,1,2-trichloroethane	25 U
dibromochloromethane	25 U	trichloroethene	400
1,1-dichloroethane	25 U	vinyl chloride	50 U
1,2-dichloroethane	25 U	trichlorofluoromethane	25 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
B - Analyte was found in the blank as well as the sample.

Date Analyzed: 10/02/90

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
November 19, 1990

ent Project ID: GE Lyman St./AY03701

Job Number: GECP 46718

VOLATILE ORGANIC PRIORITY POLLUTANT ANALYSIS

Results in µg/kg (ppb)

Sample Matrix: Soil

Client Sample ID: LS-12(20-22') DL
Lab Sample ID: LL8362

Compound		Compound	
acrolein	1,250 U	1,1-dichloroethene	625 U
acrylonitrile	1,250 U	trans-1,2-dichloroethene	625 U
benzene	625 U	1,2-dichloropropane	625 U
bromodichloromethane	625 U	cis-1,3-dichloropropene	625 U
bromoform	625 U	trans-1,3-dichloropropene	625 U
omomethane	1,250 U	ethyl benzene	625 U
bon tetrachloride	625 U	methylene chloride	1,250 U
orobenzene	625 U	1,1,2,2-tetrachloroethane	625 U
chloroethane	1,250 U	tetrachloroethene	160 J
2-chloroethylvinyl ether	1,250 U	toluene	625 U
chloroform	625 U	1,1,1-trichloroethane	625 U
chloromethane	1,250 U	1,1,2-trichloroethane	625 U
dibromochloromethane	625 U	trichloroethene	625 U
1,1-dichloroethane	625 U	vinyl chloride	1,250 U
1,2-dichloroethane	625 U	trichlorofluoromethane	625 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Analyzed: 10/02/90

SECTION 8

SEMIVOLATILE ORGANICS (SOIL)

LS-Soil	-	Housatonic River Bank Surficial Soil Sample
LS-7 (14-16')	-	Soil Sample from Boring LS-7 at 14-16 feet
LS-8 (16-18')	-	Soil Sample from Boring LS-8 at 16-18 feet
LS-9 (14-16')	-	Soil Sample from Boring LS-9 at 14-16 feet
LS-10 (10-12')	-	Soil Sample from Boring LS-10 at 10-12 feet
LS-11 (10-12')	-	Soil Sample from Boring LS-11 at 10-12 feet

APPENDIX IX SEMIVOLATILE ORGANIC ANALYSIS

Results in µg/kg (ppb)

Sample Matrix: Soil

Client Sample ID: LS-Soil
Lab Sample ID: LL7707

Compound		Compound	
phenol	1,200 U	bis(2-chloroethoxy)methane	1,200 U
bis(2-chloroethyl)ether	1,200 U	2,4-dichlorophenol	1,200 U
2-chlorophenol	1,200 U	1,2,4-trichlorobenzene	1,200 U
1,3-dichlorobenzene	1,200 U	naphthalene	1,200 U
1,4-dichlorobenzene	270 J	4-chloroaniline	1,200 U
benzyl alcohol	1,200 U	hexachlorobutadiene	1,200 U
1,2-dichlorobenzene	1,200 U	4-chloro-3-methylphenol	1,200 U
2-methylphenol	1,200 U	2-methylnaphthalene	1,200 U
bis(2-chloroisopropyl)ether	1,200 U	hexachlorocyclopentadiene	1,200 U
4-methylphenol	1,200 U	2,4,6-trichlorophenol	1,200 U
n-nitroso-di-n-propylamine	1,200 U	2,4,5-trichlorophenol	5,800 U
hexachloroethane	1,200 U	2-chloronaphthalene	1,200 U
nitrobenzene	1,200 U	2-nitroaniline	5,800 U
isophorone	1,200 U	dimethyl phthalate	1,200 U
2-nitrophenol	1,200 U	acenaphthylene	260 J
2,4-dimethylphenol	1,200 U	2,6-dinitrotoluene	1,200 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Extracted: 09/17/90
Date Analyzed: 10/04/90

APPENDIX IX SEMIVOLATILE ORGANIC ANALYSIS (page 2)

Results in µg/kg (ppb)

Sample Matrix: Soil

Client Sample ID: LS-Soil
Lab Sample ID: LL7707

Compound		Compound	
3-nitroaniline	5,800 U	anthracene	310 J
acenaphthene	380 J	di-n-butylphthalate	1,200 U
2,4-dinitrophenol	5,800 U	fluoranthene	990 J
4-nitrophenol	5,800 U	pyrene	1,600
dibenzofuran	1,200 U	butylbenzylphthalate	1,200 U
2,4-dinitrotoluene	1,200 U	3,3'-dichlorobenzidine	2,400 U
diethylphthalate	1,200 U	benzo(a)anthracene	430 J
4-chlorophenyl-phenylether	1,200 U	chrysene	580 J
fluorene	380 J	bis(2-ethylhexyl)phthalate	1,800
4-nitroaniline	5,800 U	di-n-octylphthalate	1,200 U
4,6-dinitro-2-methylphenol	5,800 U	benzo(b)fluoranthene	510 J
n-nitrosodiphenylamine[1]	1,200 U	benzo(k)fluoranthene	630 J
4-bromophenyl-phenylether	1,200 U	benzo(a)pyrene	410 J
hexachlorobenzene	1,200 U	indeno(1,2,3-cd)pyrene	1,200 U
pentachlorophenol	5,800 U	dibenzo(a,h)anthracene	1,200 U
phenanthrene	850 J	benzo(g,h,i)perylene	1,200 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
1 - Detected as diphenylamine.

Date Extracted: 09/17/90
Date Analyzed: 10/04/90

APPENDIX IX SEMIVOLATILE ORGANIC ANALYSIS (page 3)

Results in µg/kg (ppb)

Sample Matrix: Soil

Client Sample ID: LS-Soil
Lab Sample ID: LL7707

n-nitrosodimethylamine	1,200 U	m-dinitrobenzene	1,200 U
2-picoline	8,400 U	pentachlorobenzene	2,400 U
n-nitrosomethylethylamine	1,200 U	2-naphthylamine	21,000 U
methyl methanesulfonate	1,200 U	1-naphthylamine	15,000 U
n-nitrosodiethylamine	1,200 U	2,3,4,6-tetrachlorophenol	1,200 U
ethyl methanesulfonate	1,200 U	5-nitro-o-toluidine	2,400 U
aniline	6,200 U	diphenylamine	1,200 U
pentachloroethane	2,400 U	tetraethyl dithiopyropho(2)	1,200 U
3-methylphenol	1,200 U	sym-trinitrobenzene	1,200 U
n-nitrosopyrrolidine	1,200 U	phenacetin	1,200 U
acetophenone	1,200 U	diallate	1,200 U
n-nitrosomorpholine	1,200 U	4-aminobiphenyl	6,100 U
-toluidine	1,200 U	pronamide	3,600 U
n-nitrosopiperidine	1,200 U	pentachloronitrobenzene	2,400 U
o,o,o-triethylphosphorot(1)	1,200 U	dinoseb	2,400 U
2,6-dichlorophenol	1,200 U	4-nitroquinoline-1-oxide	1,200 U
hexachloropropene	2,400 U	methapyrilene	4,800 U
a,a-dimethylphenethylamine	1,200 U	aramite	1,200 U
n-nitrosodi-n-butylamine	2,400 U	p-(dimethylamino)azobenzene	3,600 U
p-phenylenediamine	6,100 U	3,3'-dimethylbenzidine	9,800 U
safrole	1,200 U	2-acetylaminofluorene	1,200 U
1,2,4,5-tetrachlorobenzene	1,200 U	7,12-dimethylbenz(a)anth(3)	2,400 U
isosafrole	1,200 U	hexachlorophene(4)	6,200 U
1,4-naphthoquinone	1,200 U	3-methylcholanthrene	3,600 U
1,2-diphenylhydrazine	1,200 U	benzidine	9,600 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
1 - o,o,o-triethylphosphorothioate
2 - tetraethyl dithiopyrophosphate
3 - 7,12-dimethylbenz(a)anthracene
4 - Quantitation limit for hexachlorophene in soil is ten times that listed.

Date Extracted: 09/17/90
Date Analyzed: 10/04/90

APPENDIX IX SEMIVOLATILE ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-7,14-16'
Lab Sample ID: LL7969

Compound		Compound	
phenol	2,200 U	bis(2-chloroethoxy)methane	2,200 U
bis(2-chloroethyl)ether	2,200 U	2,4-dichlorophenol	2,200 U
2-chlorophenol	2,200 U	1,2,4-trichlorobenzene	2,200 U
1,3-dichlorobenzene	2,200 U	naphthalene	2,200 U
1,4-dichlorobenzene	2,200 U	4-chloroaniline	2,200 U
benzyl alcohol	2,200 U	hexachlorobutadiene	2,200 U
,2-dichlorobenzene	2,200 U	4-chloro-3-methylphenol	2,200 U
-methylphenol	2,200 U	2-methylnaphthalene	2,200 U
is(2-chloroisopropyl)ether	2,200 U	hexachlorocyclopentadiene	2,200 U
4-methylphenol	2,200 U	2,4,6-trichlorophenol	2,200 U
n-nitroso-di-n-propylamine	2,200 U	2,4,5-trichlorophenol	11,000 U
hexachloroethane	2,200 U	2-chloronaphthalene	2,200 U
nitrobenzene	2,200 U	2-nitroaniline	11,000 U
isophorone	2,200 U	dimethyl phthalate	2,200 U
2-nitrophenol	2,200 U	acenaphthylene	350 J
2,4-dimethylphenol	2,200 U	2,6-dinitrotoluene	2,200 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Extracted: 09/19/90
Date Analyzed: 10/15/90
Dilution Factor: 5
% Moisture: 25

APPENDIX IX SEMIVOLATILE ANALYSIS (continued)

Results in ug/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-7,14-16'
Lab Sample ID: LL7969

Compound		Compound	
3-nitroaniline	11,000 U	anthracene	250 J
acenaphthene	2,200 U	di-n-butylphthalate	2,200 U
2,4-dinitrophenol	11,000 U	fluoranthene	930 J
4-nitrophenol	11,000 U	pyrene	1,400 J
dibenzofuran	2,200 U	butylbenzylphthalate	2,200 U
2,4-dinitrotoluene	2,200 U	3,3'-dichlorobenzidine	4,400 U
diethylphthalate	2,200 U	benzo(a)anthracene	520 J
4-chlorophenyl-phenylether	2,200 U	chrysene	600 J
fluorene	2,200 U	bis(2-ethylhexyl)phthalate	760 J
4-nitroaniline	11,000 U	di-n-octylphthalate	2,200 U
4,6-dinitro-2-methylphenol	11,000 U	benzo(b)fluoranthene	440 J
n-nitrosodiphenylamine[1]	2,200 U	benzo(k)fluoranthene	530 J
4-bromophenyl-phenylether	2,200 U	benzo(a)pyrene	420 J
hexachlorobenzene	2,200 U	indeno(1,2,3-cd)pyrene	260 J
pentachlorophenol	11,000 U	dibenzo(a,h)anthracene	2,200 U
phenanthrene	940 J	benzo(g,h,i)perylene	2,200 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
1 - Detected as diphenylamine.

Date Extracted: 09/19/90
Date Analyzed: 10/15/90
Dilution Factor: 5
% Moisture: 25

APPENDIX IX SEMIVOLATILE ANALYSIS (continued)

Results in ug/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-7,14-16'
Lab Sample ID: LL7969

n-nitrosodimethylamine	2,200 U	m-dinitrobenzene	2,200 U
2-picoline	15,000 U	pentachlorobenzene	4,400 U
n-nitrosomethylethylamine	2,200 U	2-naphthylamine	38,000 U
methyl methanesulfonate	2,200 U	1-naphthylamine	27,000 U
n-nitrosodiethylamine	2,200 U	2,3,4,6-tetrachlorophenol	2,200 U
ethyl methanesulfonate	2,200 U	5-nitro-o-toluidine	4,400 U
aniline	11,000 U	diphenylamine	2,200 U
pentachloroethane	4,400 U	tetraethyl dithiopyropho(3)	2,200 U
3-methylphenol	2,200 U	sym-trinitrobenzene	2,200 U
n-nitrosopyrrolidine	2,200 U	phenacetin	2,200 U
cetophenone	2,200 U	diallate	2,200 U
-nitrosomorpholine	2,200 U	4-aminobiphenyl	11,000 U
o-toluidine	2,200 U	pronamide	6,600 U
n-nitrosopiperidine	2,200 U	pentachloronitrobenzene	4,400 U
o,o,o-triethylphosphorot(2)	2,200 U	dinoseb	4,400 U
2,6-dichlorophenol	2,200 U	4-nitroquinoline-1-oxide	2,200 U
hexachloropropene	4,400 U	methapyrilene	8,800 U
a,a-dimethylphenethylamine	2,200 U	aramite	2,200 U
n-nitrosodi-n-butylamine	4,400 U	p-(dimethylamino)azobenzene	6,600 U
p-phenylenediamine	11,000 U	3,3'-dimethylbenzidine	18,000 U
safrole	2,200 U	2-acetylaminofluorene	2,200 U
1,2,4,5-tetrachlorobenzene	2,200 U	7,12-dimethylbenz(a)anth(4)	4,400 U
isosafrole	2,200 U	hexachlorophene	11,000 U
1,4-naphthoquinone	2,200 U	3-methylcholanthrene	6,600 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
2 - o,o,o-triethylphosphorothioate
3 - tetraethyl dithiopyrophosphate
4 - 7,12-dimethylbenz(a)anthracene

Date Extracted: 09/19/90
Date Analyzed: 10/15/90
Dilution Factor: 5
% Moisture: 25

EXTRACTABLE ORGANIC COMPOUNDS ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-7,14-16'
Lab Sample ID: LL7969

benzidine	11,000 U
1,2-diphenylhydrazine	2,200 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date Extracted: 09/19/90
Date Analyzed: 10/15/90

APPENDIX IX SEMIVOLATILE ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-8(16-18')
Lab Sample ID: LL8188

Compound		Compound	
phenol	1,900 U	bis(2-chloroethoxy)methane	1,900 U
bis(2-chloroethyl)ether	1,900 U	2,4-dichlorophenol	1,900 U
2-chlorophenol	1,900 U	1,2,4-trichlorobenzene	430 J
1,3-dichlorobenzene	2,800	naphthalene	3,800
1,4-dichlorobenzene	2,200	4-chloroaniline	1,900 U
benzyl alcohol	1,900 U	hexachlorobutadiene	1,900 U
1,2-dichlorobenzene	1,900 U	4-chloro-3-methylphenol	1,900 U
2-methylphenol	1,900 U	2-methylnaphthalene	8,600
bis(2-chloroisopropyl)ether	1,900 U	hexachlorocyclopentadiene	1,900 U
4-methylphenol	1,900 U	2,4,6-trichlorophenol	1,900 U
n-nitroso-di-n-propylamine	1,900 U	2,4,5-trichlorophenol	9,400 U
hexachloroethane	1,900 U	2-chloronaphthalene	1,900 U
nitrobenzene	1,900 U	2-nitroaniline	9,400 U
isophorone	1,900 U	dimethyl phthalate	1,900 U
2-nitrophenol	1,900 U	acenaphthylene	690 J
2,4-dimethylphenol	1,900 U	2,6-dinitrotoluene	1,900 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Extracted: 09/19/90
Date Analyzed: 10/15/90
Dilution Factor: 5
% Moisture: 15

APPENDIX IX SEMIVOLATILE ANALYSIS (continued)

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-8(16-18')
Lab Sample ID: LL8188

Compound		Compound	
n-nitroaniline	9,400 U	anthracene	1,900 U
acenaphthene	3,700	di-n-butylphthalate	1,900 U
2,4-dinitrophenol	9,400 U	fluoranthene	1,900 U
4-nitrophenol	9,400 U	pyrene	1,900 U
dibenzofuran	770 J	butylbenzylphthalate	1,900 U
2,4-dinitrotoluene	1,900 U	3,3'-dichlorobenzidine	3,900 U
diethylphthalate	1,900 U	benzo(a)anthracene	1,900 U
4-chlorophenyl-phenylether	1,900 U	chrysene	2,400
fluorene	2,500	bis(2-ethylhexyl)phthalate	1,800 J
4-nitroaniline	9,400 U	di-n-octylphthalate	1,900 U
4,6-dinitro-2-methylphenol	9,400 U	benzo(b)fluoranthene	1,100 J
n-nitrosodiphenylamine[1]	1,900 U	benzo(k)fluoranthene	1,100 J
4-bromophenyl-phenylether	1,900 U	benzo(a)pyrene	1,300 J
hexachlorobenzene	1,900 U	indeno(1,2,3-cd)pyrene	460 J
pentachlorophenol	9,400 U	dibenzo(a,h)anthracene	1,900 U
phenanthrene	15,000	benzo(g,h,i)perylene	1,900 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
1 - Detected as diphenylamine.

Date Extracted: 09/19/90
Date Analyzed: 10/15/90
Dilution Factor: 5
% Moisture: 15

APPENDIX IX SEMIVOLATILE ANALYSIS (continued)

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-8(16-18')
Lab Sample ID: LL8188

n-nitrosodimethylamine	1,900 U	m-dinitrobenzene	1,900 U
2-picoline	13,000 U	pentachlorobenzene	3,900 U
n-nitrosomethylethylamine	1,900 U	2-naphthylamine	33,000 U
methyl methanesulfonate	1,900 U	1-naphthylamine	23,000 U
n-nitrosodiethylamine	1,900 U	2,3,4,6-tetrachlorophenol	1,900 U
ethyl methanesulfonate	1,900 U	5-nitro-o-toluidine	3,900 U
aniline	10,000 U	diphenylamine	1,900 U
pentachloroethane	3,900 U	tetraethyl dithiopyropho(3)	1,900 U
3-methylphenol	1,900 U	sym-trinitrobenzene	1,900 U
n-nitrosopyrrolidine	1,900 U	phenacetin	1,900 U
acetophenone	1,900 U	diallate	1,900 U
n-nitrosomorpholine	1,900 U	4-aminobiphenyl	9,800 U
o-toluidine	1,900 U	pronamide	5,900 U
n-nitrosopiperidine	1,900 U	pentachloronitrobenzene	3,900 U
o,o,o-triethylphosphorot(2)	1,900 U	dinoseb	3,900 U
2,6-dichlorophenol	1,900 U	4-nitroquinoline-1-oxide	1,900 U
hexachloropropene	3,900 U	methapyrilene	7,800 U
a,a-dimethylphenethylamine	1,900 U	aramite	1,900 U
n-nitrosodi-n-butylamine	3,900 U	p-(dimethylamino)azobenzene	5,900 U
p-phenylenediamine	9,800 U	3,3'-dimethylbenzidine	16,000 U
safrole	1,900 U	2-acetylaminofluorene	1,900 U
1,2,4,5-tetrachlorobenzene	1,900 U	7,12-dimethylbenz(a)anth(4)	3,900 U
isosafrole	1,900 U	hexachlorophene	10,000 U
1,4-naphthoquinone	1,900 U	3-methylcholanthrene	5,900 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
2 - o,o,o-triethylphosphorothioate
3 - tetraethyl dithiopyrophosphate
4 - 7,12-dimethylbenz(a)anthracene

Date Extracted: 09/19/90
Date Analyzed: 10/15/90
Dilution Factor: 5
% Moisture: 15

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 31, 1990

Client Project ID: GE Pittsfield, MA/AY03701

Job Number: GECP 46687

EXTRACTABLE ORGANIC COMPOUNDS ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-8(16-18')
Lab Sample ID: LL8188

benzidine	9,400 U
1,2-diphenylhydrazine	1,900 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date Extracted: 09/19/90
Date Analyzed: 10/15/90

APPENDIX IX SEMIVOLATILE ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-8(16-18') DL
Lab Sample ID: LL8188

Compound		Compound	
phenol	5,800 U	bis(2-chloroethoxy)methane	5,800 U
bis(2-chloroethyl)ether	5,800 U	2,4-dichlorophenol	5,800 U
2-chlorophenol	5,800 U	1,2,4-trichlorobenzene	5,800 U
1,3-dichlorobenzene	2,900 DJ	naphthalene	3,700 DJ
1,4-dichlorobenzene	5,800 U	4-chloroaniline	5,800 U
benzyl alcohol	5,800 U	hexachlorobutadiene	5,800 U
1,2-dichlorobenzene	5,800 U	4-chloro-3-methylphenol	5,800 U
2-methylphenol	5,800 U	2-methylnaphthalene	9,600 D
bis(2-chloroisopropyl)ether	5,800 U	hexachlorocyclopentadiene	5,800 U
4-methylphenol	5,800 U	2,4,6-trichlorophenol	5,800 U
n-nitroso-di-n-propylamine	5,800 U	2,4,5-trichlorophenol	28,000 U
hexachloroethane	5,800 U	2-chloronaphthalene	5,800 U
nitrobenzene	5,800 U	2-nitroaniline	28,000 U
isophorone	5,800 U	dimethyl phthalate	5,800 U
2-nitrophenol	5,800 U	acenaphthylene	820 DJ
2,4-dimethylphenol	5,800 U	2,6-dinitrotoluene	5,800 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
D - Compound analyzed at a secondary dilution factor.

DL - Dilution

Date Extracted: 09/19/90
Date Analyzed: 10/16/90
Dilution Factor: 15
% Moisture: 14

APPENDIX IX SEMIVOLATILE ANALYSIS

Results in ug/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-8(16-18') DL
Lab Sample ID: LL8188

Compound		Compound	
n-nitroaniline	28,000 U	anthracene	5,800 U
acenaphthene	3,500 DJ	di-n-butylphthalate	5,800 U
2,4-dinitrophenol	28,000 U	fluoranthene	5,800 U
4-nitrophenol	28,000 U	pyrene	5,800 U
dibenzofuran	830 DJ	butylbenzylphthalate	5,800 U
2,4-dinitrotoluene	5,800 U	3,3'-dichlorobenzidine	12,000 U
diethylphthalate	5,800 U	benzo(a)anthracene	5,800 U
4-chlorophenyl-phenylether	5,800 U	chrysene	2,200 DJ
fluorene	2,900 DJ	bis(2-ethylhexyl)phthalate	1,700 DJ
4-nitroaniline	28,000 U	di-n-octylphthalate	5,800 U
4,6-dinitro-2-methylphenol	28,000 U	benzo(b)fluoranthene	1,000 DJ
n-nitrosodiphenylamine[1]	5,800 U	benzo(k)fluoranthene	1,200 DJ
4-bromophenyl-phenylether	5,800 U	benzo(a)pyrene	1,100 DJ
hexachlorobenzene	5,800 U	indeno(1,2,3-cd)pyrene	5,800 U
pentachlorophenol	28,000 U	dibenzo(a,h)anthracene	5,800 U
phenanthrene	11,000 D	benzo(g,h,i)perylene	5,800 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
D - Compound analyzed at a secondary dilution factor.
1 - Detected as diphenylamine.
DL - Dilution

Date Extracted: 09/19/90
Date Analyzed: 10/16/90
Dilution Factor: 15
% Moisture: 15

APPENDIX IX SEMIVOLATILE ANALYSIS (continued)

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-8(16-18') DL
Lab Sample ID: LL8188

n-nitrosodimethylamine	5,800 U	m-dinitrobenzene	5,800 U
2-picoline	41,000 U	pentachlorobenzene	12,000 U
n-nitrosomethylethylamine	5,800 U	2-naphthylamine	100,000 U
methyl methanesulfonate	5,800 U	1-naphthylamine	71,000 U
n-nitrosodiethylamine	5,800 U	2,3,4,6-tetrachlorophenol	5,800 U
ethyl methanesulfonate	5,800 U	5-nitro-o-toluidine	12,000 U
aniline	30,000 U	diphenylamine	5,800 U
pentachloroethane	12,000 U	tetraethyl dithiopyropho(3)	5,800 U
3-methylphenol	5,800 U	sym-trinitrobenzene	5,800 U
n-nitrosopyrrolidine	5,800 U	phenacetin	5,800 U
acetophenone	5,800 U	diallate	5,800 U
n-nitrosomorpholine	5,800 U	4-aminobiphenyl	29,000 U
o-toluidine	5,800 U	pronamide	18,000 U
n-nitrosopiperidine	5,800 U	pentachloronitrobenzene	12,000 U
o,o,o-triethylphosphorot(2)	5,800 U	dinoseb	12,000 U
2,6-dichlorophenol	5,800 U	4-nitroquinoline-1-oxide	5,800 U
hexachloropropene	12,000 U	methapyrilene	23,000 U
a,a-dimethylphenethylamine	5,800 U	aramite	5,800 U
n-nitrosodi-n-butylamine	12,000 U	p-(dimethylamino)azobenzene	18,000 U
p-phenylenediamine	29,000 U	3,3'-dimethylbenzidine	48,000 U
safrole	5,800 U	2-acetylaminofluorene	5,800 U
1,2,4,5-tetrachlorobenzene	5,800 U	7,12-dimethylbenz(a)anth(4)	12,000 U
isosafrole	5,800 U	hexachlorophene	30,000 U
1,4-naphthoquinone	5,800 U	3-methylcholanthrene	18,000 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
2 - o,o,o-triethylphosphorothioate
3 - tetraethyl dithiopyrophosphate
4 - 7,12-dimethylbenz(a)anthracene
DL - Dilution

Date Extracted: 09/19/90
Date Analyzed: 10/16/90
Dilution Factor: 15
% Moisture: 15

EXTRACTABLE ORGANIC COMPOUNDS ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-8(16-18') DL
Lab Sample ID: LL8188

benzidine	28,000 U
1,2-diphenylhydrazine	5,800 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
DL - Dilution

Date Extracted: 09/19/90
Date Analyzed: 10/16/90

APPENDIX IX SEMIVOLATILE ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-9(14-16')
Lab Sample ID: LL8189

Compound		Compound	
phenol	2,300 U	bis(2-chloroethoxy)methane	2,300 U
bis(2-chloroethyl)ether	2,300 U	2,4-dichlorophenol	2,300 U
2-chlorophenol	2,300 U	1,2,4-trichlorobenzene	2,300 U
1,3-dichlorobenzene	290 J	naphthalene	73,000 E
1,4-dichlorobenzene	2,300 U	4-chloroaniline	2,300 U
benzyl alcohol	2,300 U	hexachlorobutadiene	2,300 U
1,2-dichlorobenzene	2,300 U	4-chloro-3-methylphenol	2,300 U
2-methylphenol	2,300 U	2-methylnaphthalene	32,000
bis(2-chloroisopropyl)ether	2,300 U	hexachlorocyclopentadiene	2,300 U
4-methylphenol	2,300 U	2,4,6-trichlorophenol	2,300 U
n-nitroso-di-n-propylamine	2,300 U	2,4,5-trichlorophenol	11,000 U
hexachloroethane	2,300 U	2-chloronaphthalene	2,300 U
nitrobenzene	2,300 U	2-nitroaniline	11,000 U
isophorone	2,300 U	dimethyl phthalate	2,300 U
2-nitrophenol	2,300 U	acenaphthylene	5,700
2,4-dimethylphenol	2,300 U	2,6-dinitrotoluene	2,300 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
D - Compound analyzed at a secondary dilution factor.
E - Compound exceeded CLP calibration range, but was within instrument's linear range.

Date Extracted: 09/19/90
Date Analyzed: 10/15/90
Dilution Factor: 5
% Moisture: 29

APPENDIX IX SEMIVOLATILE ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-9(14-16')
Lab Sample ID: LL8189

Compound		Compound	
n-nitroaniline	11,000 U	anthracene	33,000
acenaphthene	45,000 E	di-n-butylphthalate	2,300 U
2,4-dinitrophenol	11,000 U	fluoranthene	31,000
4-nitrophenol	11,000 U	pyrene	62,000 E
dibenzofuran	1,900 J	butylbenzylphthalate	2,300 U
2,4-dinitrotoluene	2,300 U	3,3'-dichlorobenzidine	4,600 U
diethylphthalate	2,300 U	benzo(a)anthracene	17,000
-chlorophenyl-phenylether	2,300 U	chrysene	15,000
luorene	24,000	bis(2-ethylhexyl)phthalate	1,000 J
4-nitroaniline	11,000 U	di-n-octylphthalate	2,300 U
4,6-dinitro-2-methylphenol	11,000 U	benzo(b)fluoranthene	5,500
n-nitrosodiphenylamine[1]	1,900 J	benzo(k)fluoranthene	10,000
4-bromophenyl-phenylether	2,300 U	benzo(a)pyrene	13,000
hexachlorobenzene	2,300 U	indeno(1,2,3-cd)pyrene	3,900
pentachlorophenol	11,000 U	dibenzo(a,h)anthracene	2,300 U
phenanthrene	89,000 E	benzo(g,h,i)perylene	4,700

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
D - Compound analyzed at a secondary dilution factor.
E - Compound exceeded CLP calibration range, but was within instrument's linear range.
1 - Detected as diphenylamine.

Date Extracted: 09/19/90
Date Analyzed: 10/15/90
Dilution Factor: 5
% Moisture: 29

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 31, 1990

Client Project ID: GE Pittsfield, MA/AY03701 Job Number: GECP 46687

APPENDIX IX SEMIVOLATILE ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-9(14-16')
Lab Sample ID: LL8189

n-nitrosodimethylamine	2,300 U	m-dinitrobenzene	2,300 U
2-picoline	16,000 U	pentachlorobenzene	4,700 U
n-nitrosomethylethylamine	2,300 U	2-naphthylamine	40,000 U
methyl methanesulfonate	2,300 U	1-naphthylamine	28,000 U
n-nitrosodiethylamine	2,300 U	2,3,4,6-tetrachlorophenol	2,300 U
ethyl methanesulfonate	2,300 U	5-nitro-o-toluidine	4,700 U
aniline	12,000 U	diphenylamine	2,300 U
pentachloroethane	4,700 U	tetraethyl dithiopyropho(3)	2,300 U
3-methylphenol	2,300 U	sym-trinitrobenzene	2,300 U
n-nitrosopyrrolidine	2,300 U	phenacetin	2,300 U
cetophenone	2,300 U	diallate	2,300 U
-nitrosomorpholine	2,300 U	4-aminobiphenyl	12,000 U
o-toluidine	2,300 U	pronamide	7,000 U
n-nitrosopiperidine	2,300 U	pentachloronitrobenzene	4,700 U
o,o,o-triethylphosphorot(2)	2,300 U	dinoseb	4,700 U
2,6-dichlorophenol	2,300 U	4-nitroquinoline-1-oxide	2,300 U
hexachloropropene	4,700 U	methapyrilene	9,300 U
a,a-dimethylphenethylamine	2,300 U	aramite	2,300 U
n-nitrosodi-n-butylamine	4,700 U	p-(dimethylamino)azobenzene	7,000 U
p-phenylenediamine	12,000 U	3,3'-dimethylbenzidine	19,000 U
safrole	2,300 U	2-acetylaminofluorene	2,300 U
1,2,4,5-tetrachlorobenzene	2,300 U	7,12-dimethylbenz(a)anth(4)	4,700 U
isosafrole	2,300 U	hexachlorophene	12,000 U
1,4-naphthoquinone	2,300 U	3-methylcholanthrene	7,000 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
2 - o,o,o-triethylphosphorothioate
3 - tetraethyl dithiopyrophosphate
4 - 7,12-dimethylbenz(a)anthracene

Date Extracted: 09/19/90
Date Analyzed: 10/15/90
Dilution Factor: 5
Moisture: 29

EXTRACTABLE ORGANIC COMPOUNDS ANALYSIS

Results in ug/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-9(14-16')
Lab Sample ID: LL8189

benzidine	11,000 U
1,2-diphenylhydrazine	2,300 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date Extracted: 09/19/90
Date Analyzed: 10/15/90

APPENDIX IX SEMIVOLATILE ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-9(14-16') DL
Lab Sample ID: LL8189

Compound		Compound	
phenol	23,000 U	bis(2-chloroethoxy)methane	23,000 U
bis(2-chloroethyl)ether	23,000 U	2,4-dichlorophenol	23,000 U
2-chlorophenol	23,000 U	1,2,4-trichlorobenzene	23,000 U
1,3-dichlorobenzene	23,000 U	naphthalene	91,000 D
1,4-dichlorobenzene	23,000 U	4-chloroaniline	23,000 U
benzyl alcohol	23,000 U	hexachlorobutadiene	23,000 U
1,2-dichlorobenzene	23,000 U	4-chloro-3-methylphenol	23,000 U
2-methylphenol	23,000 U	2-methylnaphthalene	35,000 D
bis(2-chloroisopropyl)ether	23,000 U	hexachlorocyclopentadiene	23,000 U
4-methylphenol	23,000 U	2,4,6-trichlorophenol	23,000 U
n-nitroso-di-n-propylamine	23,000 U	2,4,5-trichlorophenol	110,000 U
hexachloroethane	23,000 U	2-chloronaphthalene	23,000 U
nitrobenzene	23,000 U	2-nitroaniline	110,000 U
isophorone	23,000 U	dimethyl phthalate	23,000 U
2-nitrophenol	23,000 U	acenaphthylene	7,100 DJ
2,4-dimethylphenol	23,000 U	2,6-dinitrotoluene	23,000 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
D - Compound analyzed at a secondary dilution factor.
DL - Dilution

Date Extracted: 09/19/90
Date Analyzed: 10/16/90
Dilution Factor: 50
% Moisture: 29

APPENDIX IX SEMIVOLATILE ANALYSIS

Results in ug/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-9(14-16') DL
Lab Sample ID: LL8189

Compound		Compound	
n-nitroaniline	110,000 U	anthracene	32,000 D
acenaphthene	47,000 D	di-n-butylphthalate	23,000 U
2,4-dinitrophenol	110,000 U	fluoranthene	32,000 D
4-nitrophenol	110,000 U	pyrene	80,000 D
dibenzofuran	2,500 DJ	butylbenzylphthalate	23,000 U
2,4-dinitrotoluene	23,000 U	3,3'-dichlorobenzidine	46,000 U
diethylphthalate	23,000 U	benzo(a)anthracene	21,000 DJ
4-chlorophenyl-phenylether	23,000 U	chrysene	20,000 DJ
fluorene	30,000 D	bis(2-ethylhexyl)phthalate	23,000 U
4-nitroaniline	110,000 U	di-n-octylphthalate	23,000 U
4,6-dinitro-2-methylphenol	110,000 U	benzo(b)fluoranthene	7,500 DJ
n-nitrosodiphenylamine[1]	2,400 DJ	benzo(k)fluoranthene	8,800 DJ
4-bromophenyl-phenylether	23,000 U	benzo(a)pyrene	15,000 DJ
hexachlorobenzene	23,000 U	indeno(1,2,3-cd)pyrene	5,100 DJ
pentachlorophenol	110,000 U	dibenzo(a,h)anthracene	23,000 U
phenanthrene	110,000 D	benzo(g,h,i)perylene	6,900 DJ

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
D - Compound analyzed at a secondary dilution factor.
1 - Detected as diphenylamine.
DL - Dilution

Date Extracted: 09/19/90
Date Analyzed: 10/16/90
Dilution Factor: 50
% Moisture: 29

APPENDIX IX SEMIVOLATILE ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-9(14-16') DL
Lab Sample ID: LL8189

n-nitrosodimethylamine	23,000 U	m-dinitrobenzene	23,000 U
2-picoline	160,000 U	pentachlorobenzene	47,000 U
n-nitrosomethylethylamine	23,000 U	2-naphthylamine	400,000 U
methyl methanesulfonate	23,000 U	1-naphthylamine	280,000 U
n-nitrosodiethylamine	23,000 U	2,3,4,6-tetrachlorophenol	23,000 U
ethyl methanesulfonate	23,000 U	5-nitro-o-toluidine	47,000 U
aniline	120,000 U	diphenylamine	23,000 U
pentachloroethane	47,000 U	tetraethyl dithiopyropho(3)	23,000 U
3-methylphenol	23,000 U	sym-trinitrobenzene	23,000 U
n-nitrosopyrrolidine	23,000 U	phenacetin	23,000 U
acetophenone	23,000 U	diallate	23,000 U
n-nitrosomorpholine	23,000 U	4-aminobiphenyl	120,000 U
o-toluidine	23,000 U	pronamide	70,000 U
n-nitrosopiperidine	23,000 U	pentachloronitrobenzene	47,000 U
o,o,o-triethylphosphorot(2)	23,000 U	dinoseb	47,000 U
2,6-dichlorophenol	23,000 U	4-nitroquinoline-1-oxide	23,000 U
hexachloropropene	47,000 U	methapyrilene	93,000 U
a,a-dimethylphenethylamine	23,000 U	aramite	23,000 U
n-nitrosodi-n-butylamine	47,000 U	p-(dimethylamino)azobenzene	70,000 U
p-phenylenediamine	120,000 U	3,3'-dimethylbenzidine	190,000 U
safrole	23,000 U	2-acetylaminofluorene	23,000 U
1,2,4,5-tetrachlorobenzene	23,000 U	7,12-dimethylbenz(a)anth(4)	47,000 U
isosafrole	23,000 U	hexachlorophene	120,000 U
1,4-naphthoquinone	23,000 U	3-methylcholanthrene	70,000 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
2 - o,o,o-triethylphosphorothioate
3 - tetraethyl dithiopyrophosphate
4 - 7,12-dimethylbenz(a)anthracene
DL - Dilution

Date Extracted: 09/19/90
Date Analyzed: 10/16/90
Dilution Factor: 50
% Moisture: 29

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 31, 1990

Client Project ID: GE Pittsfield, MA/AY03701 Job Number: GECP 46687

EXTRACTABLE ORGANIC COMPOUNDS ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-9(14-16') DL
Lab Sample ID: LL8189

benzidine	110,000 U
1,2-diphenylhydrazine	23,000 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
DL - Dilution

Date Extracted: 09/19/90
Date Analyzed: 10/16/90

APPENDIX IX SEMIVOLATILE ANALYSIS

Results in ug/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-10(10-12')
Lab Sample ID: LL8364

Compound		Compound	
phenol	1,100 U	bis(2-chloroethoxy)methane	1,100 U
bis(2-chloroethyl)ether	1,100 U	2,4-dichlorophenol	1,100 U
2-chlorophenol	1,100 U	1,2,4-trichlorobenzene	1,100 U
1,3-dichlorobenzene	1,100 U	naphthalene	1,100 U
1,4-dichlorobenzene	1,100 U	4-chloroaniline	1,100 U
benzyl alcohol	1,100 U	hexachlorobutadiene	1,100 U
1,2-dichlorobenzene	1,100 U	4-chloro-3-methylphenol	1,100 U
2-methylphenol	1,100 U	2-methylnaphthalene	1,100 U
bis(2-chloroisopropyl)ether	1,100 U	hexachlorocyclopentadiene	1,100 U
4-methylphenol	1,100 U	2,4,6-trichlorophenol	1,100 U
n-nitroso-di-n-propylamine	1,100 U	2,4,5-trichlorophenol	5,200 U
hexachloroethane	1,100 U	2-chloronaphthalene	1,100 U
nitrobenzene	1,100 U	2-nitroaniline	5,200 U
isophorone	1,100 U	dimethyl phthalate	1,100 U
2-nitrophenol	1,100 U	acenaphthylene	1,100 U
2,4-dimethylphenol	1,100 U	2,6-dinitrotoluene	1,100 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Extracted: 09/24/90
Date Analyzed: 10/19/90
Dilution Factor: 3
% Moisture: 9

APPENDIX IX SEMIVOLATILE ANALYSIS (continued)

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-10(10-12')
Lab Sample ID: LL8364

Compound		Compound	
3-nitroaniline	5,200 U	anthracene	1,100 U
acenaphthene	1,100 U	di-n-butylphthalate	130 J
2,4-dinitrophenol	5,200 U	fluoranthene	1,100 U
4-nitrophenol	5,200 U	pyrene	1,100 U
dibenzofuran	1,100 U	butylbenzylphthalate	1,100 U
2,4-dinitrotoluene	1,100 U	3,3'-dichlorobenzidine	2,200 U
diethylphthalate	1,100 U	benzo(a)anthracene	1,100 U
4-chlorophenyl-phenylether	1,100 U	chrysene	1,100 U
fluorene	1,100 U	bis(2-ethylhexyl)phthalate	420 J
4-nitroaniline	5,200 U	di-n-octylphthalate	1,100 U
4,6-dinitro-2-methylphenol	5,200 U	benzo(b)fluoranthene	1,100 U
n-nitrosodiphenylamine[1]	1,100 U	benzo(k)fluoranthene	1,100 U
4-bromophenyl-phenylether	1,100 U	benzo(a)pyrene	1,100 U
hexachlorobenzene	1,100 U	indeno(1,2,3-cd)pyrene	1,100 U
pentachlorophenol	5,200 U	dibenzo(a,h)anthracene	1,100 U
phenanthrene	1,100 U	benzo(g,h,i)perylene	1,100 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
1 - Detected as diphenylamine.

Date Extracted: 09/24/90
Date Analyzed: 10/19/90
Dilution Factor: 3
% Moisture: 9

APPENDIX IX SEMIVOLATILE ANALYSIS (continued)

Results in ug/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-10(10-12')
Lab Sample ID: LL8364

n-nitrosodimethylamine	1,100 U	m-dinitrobenzene	1,100 U
2-picoline	7,500 U	pentachlorobenzene	2,200 U
n-nitrosomethylethylamine	1,100 U	2-naphthylamine	19,000 U
methyl methanesulfonate	1,100 U	1-naphthylamine	13,000 U
n-nitrosodiethylamine	1,100 U	2,3,4,6-tetrachlorophenol	1,100 U
ethyl methanesulfonate	1,100 U	5-nitro-o-toluidine	2,200 U
aniline	5,600 U	diphenylamine	1,100 U
pentachloroethane	2,200 U	tetraethyl dithiopyropho(3)	1,100 U
3-methylphenol	1,100 U	sym-trinitrobenzene	1,100 U
n-nitrosopyrrolidine	1,100 U	phenacetin	1,100 U
acetophenone	1,100 U	diallate	1,100 U
n-nitrosomorpholine	1,100 U	4-aminobiphenyl	5,500 U
o-toluidine	1,100 U	pronamide	3,300 U
n-nitrosopiperidine	1,100 U	pentachloronitrobenzene	2,200 U
o,o,o-triethylphosphorot(2)	1,100 U	dinoseb	2,200 U
2,6-dichlorophenol	1,100 U	4-nitroquinoline-1-oxide	1,100 U
hexachloropropene	2,200 U	methapyrilene	4,400 U
a,a-dimethylphenethylamine	1,100 U	aramite	1,100 U
n-nitrosodi-n-butylamine	2,200 U	p-(dimethylamino)azobenzene	3,300 U
p-phenylenediamine	5,500 U	3,3'-dimethylbenzidine	8,800 U
safrole	1,100 U	2-acetylaminofluorene	1,100 U
1,2,4,5-tetrachlorobenzene	1,100 U	7,12-dimethylbenz(a)anth(4)	2,200 U
Isosafrole	1,100 U	hexachlorophene	5,600 U
1,4-naphthoquinone	1,100 U	3-methylcholanthrene	3,300 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
2 - o,o,o-triethylphosphorothioate
3 - tetraethyl dithiopyrophosphate
4 - 7,12-dimethylbenz(a)anthracene

Date Extracted: 09/24/90
Date Analyzed: 10/19/90
Dilution Factor: 3
% Moisture: 9

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
November 19, 1990

Client Project ID: GE Lyman St./AY03701 Job Number: GECP 46718

ADDITIONAL SEMIVOLATILE ORGANIC COMPOUNDS ANALYSIS

Results in ug/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-10(10-12')
Lab Sample ID: LL8364

benzidine	5,200 U
1,2-diphenylhydrazine	1,100 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Extracted: 09/24/90
Date Analyzed: 10/19/90
Dilution Factor: 3
% Moisture: 9

APPENDIX IX SEMIVOLATILE ANALYSIS

Results in ug/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS11(10-12')
Lab Sample ID: LL8336

Compound		Compound	
phenol	4,900 U	bis(2-chloroethoxy)methane	4,900 U
bis(2-chloroethyl)ether	4,900 U	2,4-dichlorophenol	4,900 U
2-chlorophenol	4,900 U	1,2,4-trichlorobenzene	89,000 E
1,3-dichlorobenzene	4,900 U	naphthalene	930 J
1,4-dichlorobenzene	1,300 J	4-chloroaniline	4,900 U
benzyl alcohol	4,900 U	hexachlorobutadiene	4,900 U
1,2-dichlorobenzene	1,400 J	4-chloro-3-methylphenol	4,900 U
2-methylphenol	4,900 U	2-methylnaphthalene	1,000 J
bis(2-chloroisopropyl)ether	4,900 U	hexachlorocyclopentadiene	4,900 U
4-methylphenol	4,900 U	2,4,6-trichlorophenol	4,900 U
n-nitroso-di-n-propylamine	4,900 U	2,4,5-trichlorophenol	25,000 U
hexachloroethane	4,900 U	2-chloronaphthalene	4,900 U
nitrobenzene	4,900 U	2-nitroaniline	25,000 U
isophorone	4,900 U	dimethyl phthalate	4,900 U
2-nitrophenol	4,900 U	acenaphthylene	4,900 U
2,4-dimethylphenol	4,900 U	2,6-dinitrotoluene	4,900 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
E - Values exceed calibration range.

Date Extracted: 09/24/90
Date Analyzed: 10/16/90
Dilution Factor: 10
% Moisture: 34

APPENDIX IX SEMIVOLATILE ANALYSIS (continued)

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS11(10-12')
Lab Sample ID: LL8336

Compound		Compound	
3-nitroaniline	25,000 U	anthracene	4,900 U
acenaphthene	4,900 U	di-n-butylphthalate	4,900 U
2,4-dinitrophenol	25,000 U	fluoranthene	4,900 U
4-nitrophenol	25,000 U	pyrene	4,900 U
dibenzofuran	4,900 U	butylbenzylphthalate	4,900 U
2,4-dinitrotoluene	4,900 U	3,3'-dichlorobenzidine	9,900 U
diethylphthalate	4,900 U	benzo(a)anthracene	4,900 U
4-chlorophenyl-phenylether	4,900 U	chrysene	4,900 U
fluorene	4,900 U	bis(2-ethylhexyl)phthalate	4,900 U
4-nitroaniline	25,000 U	di-n-octylphthalate	4,900 U
4,6-dinitro-2-methylphenol	25,000 U	benzo(b)fluoranthene	1,000 J
n-nitrosodiphenylamine[1]	4,900 U	benzo(k)fluoranthene	620 J
4-bromophenyl-phenylether	4,900 U	benzo(a)pyrene	4,900 U
hexachlorobenzene	4,900 U	indeno(1,2,3-cd)pyrene	4,900 U
pentachlorophenol	25,000 U	dibenzo(a,h)anthracene	4,900 U
phenanthrene	4,900 U	benzo(g,h,i)perylene	4,900 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
1 - Detected as diphenylamine.

Date Extracted: 09/24/90
Date Analyzed: 10/16/90
Dilution Factor: 10
% Moisture: 34

APPENDIX IX SEMIVOLATILE ANALYSIS (continued)

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS11(10-12')
Lab Sample ID: LL8336

n-nitrosodimethylamine	4,900 U	m-dinitrobenzene	4,900 U
2-picoline	34,000 U	pentachlorobenzene	10,000 U
n-nitrosomethylethylamine	4,900 U	2-naphthylamine	85,000 U
methyl methanesulfonate	4,900 U	1-naphthylamine	60,000 U
n-nitrosodiethylamine	4,900 U	2,3,4,6-tetrachlorophenol	4,900 U
ethyl methanesulfonate	4,900 U	5-nitro-o-toluidine	10,000 U
aniline	25,000 U	diphenylamine	4,900 U
pentachloroethane	10,000 U	tetraethyl dithiopyropho(3)	4,900 U
3-methylphenol	4,900 U	sym-trinitrobenzene	4,900 U
n-nitrosopyrrolidine	4,900 U	phenacetin	4,900 U
acetophenone	4,900 U	diallate	4,900 U
n-nitrosomorpholine	4,900 U	4-aminobiphenyl	25,000 U
o-toluidine	4,900 U	pronamide	15,000 U
n-nitrosopiperidine	4,900 U	pentachloronitrobenzene	10,000 U
o,o,o-triethylphosphorot(2)	4,900 U	dinoseb	10,000 U
2,6-dichlorophenol	4,900 U	4-nitroquinoline-1-oxide	4,900 U
hexachloropropene	10,000 U	methapyrilene	20,000 U
a,a-dimethylphenethylamine	4,900 U	aramite	4,900 U
n-nitrosodi-n-butylamine	10,000 U	p-(dimethylamino)azobenzene	15,000 U
p-phenylenediamine	25,000 U	3,3'-dimethylbenzidine	40,000 U
safrole	4,900 U	2-acetylaminofluorene	4,900 U
1,2,4,5-tetrachlorobenzene	1,700 J	7,12-dimethylbenz(a)anth(4)	10,000 U
isosafrole	4,900 U	hexachlorophene	25,000 U
1,4-naphthoquinone	4,900 U	3-methylcholanthrene	15,000 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.
2 - o,o,o-triethylphosphorothioate
3 - tetraethyl dithiopyrophosphate
4 - 7,12-dimethylbenz(a)anthracene

Date Extracted: 09/24/90
Date Analyzed: 10/16/90
Dilution Factor: 10
% Moisture: 34

EXTRACTABLE ORGANIC COMPOUNDS ANALYSIS

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS11(10-12')
Lab Sample ID: LL8336

benzidine	24,000 U
1,2-diphenylhydrazine	4,900 U

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date Extracted: 09/24/90
Date Analyzed: 10/16/90

SECTION 9

ORGANOCHLORINE PESTICIDES AND PCBs (SOIL)

PCBs

LS-Soil	-	Housatonic River Bank Surficial Soil Sample
LS-7 (0-18')	-	Soil Samples from Boring LS-7 at 0-18 feet (2-foot intervals)
LS-8 (0-24')	-	Soil Samples from Boring LS-8 at 0-24 feet (2-foot intervals)
LS-9 (0-20')	-	Soil Samples from Boring LS-9 at 0-20 feet (2-foot intervals)
LS-10 (0-24')	-	Soil Samples from Boring LS-10 at 0-24 feet (2-foot intervals)
LS-11 (0-24')	-	Soil Samples from Boring LS-11 at 0-24 feet (2-foot intervals)
LS-12 (2-26')	-	Soil Samples from Boring LS-12 at 2-26 feet (2-foot intervals)
LS-13 (2-24')	-	Soil Samples from Boring LS-13 at 2-24 feet (2-foot intervals)

Organochlorine Pesticides/PCBs

LS-7 (14-16')	-	Soil Sample from Boring LS-7 at 14-16 feet
LS-8 (16-18')	-	Soil Sample from Boring LS-8 at 16-18 feet
LS-9 (14-16')	-	Soil Sample from Boring LS-9 at 14-16 feet
LS-10 (10-12')	-	Soil Sample from Boring LS-10 at 10-12 feet
LS-11 (10-12')	-	Soil Sample from Boring LS-11 at 10-12 feet

APPENDIX IX ORGANOCHLORINE PESTICIDES

Results in µg/kg (ppb)

Sample Matrix: Soil

Client Sample ID: LS-Soil
Lab Sample ID: LL7707

Compound		Compound	
α-BHC	400 U	methoxychlor	2,000 U**
β-BHC	3,000 **	chlordane	800 U
δ-BHC	400 U	toxaphene	800 U
γ-BHC (lindane)	400 U	Aroclor 1016	800 U
heptachlor	2,000 U**	Aroclor 1221	800 U
aldrin	3,000 U**	Aroclor 1232	800 U
heptachlor epoxide	400 U	Aroclor 1242	800 U
endosulfan I	400 U	Aroclor 1248	1,000 U**
dieldrin	400 U	Aroclor 1254	16,000 *
4,4'-DDE	400 U	Aroclor 1260	7,900
endrin	2,000 U**	endrin aldehyde	800 U
endosulfan II	900 U**	isodrin	800 U**
4,4'-DDD	1,000 U**	kepone	3,000 U**
endosulfan sulfate	500 U**	chlorobenzilate	30,000 U**
4,4'-DDT	2,000 U**		

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
* - Altered Aroclor pattern.
** - Elevated detection limits due to matrix interferences and interferences caused by the presence of Aroclor 1254.

Date Extracted: 09/17/90
Date Analyzed: 10/01/90

General Electric Company
October 31, 1990

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: GE Pittsfield, MA/AY03701 Job Number: GECP 46668

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

Client Sample ID	Lab Sample ID	Aroclor 1016, 1232 1242† and/or 1248	Aroclor 1254	Aroclor 1260	Total Aroclors
LS-7,0-2'	LL7949	2 U	130	9 U	130
LS-7,2-4'	LL7950	0.05 U	1.5	0.2 U	1.5
LS-7,4-6'	LL7951	0.05 U	4.7 *	0.7 U	4.7
LS-7,6-8'	LL7952	0.2 U	15	2 U	15
LS-7,8-10'	LL7953	0.6 U	21	4 U	21
LS-7,10-12'	LL7954	0.2 U	13	2 U	13
LS-7,12-14'	LL7955	0.05 U	0.09	0.05 U	0.09
LS-7,14-16'	LL7956	0.05 U	0.27	0.05 U	0.27
LS-7,16-18'	LL7957	0.05 U	1.1	0.2 U	1.1
LS-8,0-2'	LL7958	0.08 U	5.6	0.7 U	5.6
LS-8,2-4'	LL7959	0.9 U	130 *	10 U	130
LS-8,4-6'	LL7960	0.2 U	8.1	0.4 U	8.1
LS-8,6-8'	LL7961	0.05 U	1.9	6.2	8.1
LS-8,8-10'	LL7962	40 U	2,900	200 U	2,900
LS-8,10-12'	LL7963	90 U	5,800	200 U	5,800
LS-8,12-14'	LL7964	100 U	8,300	300 U	8,300
LS-8,14-16'	LL7965	100 U	4,800	200 U	4,800
LS-8,16-18'	LL7966	100 U	3,900	200 U	3,900
LS-8,18-20'	LL7967	90 U	2,500	200 U	2,500
Method Blank	BLA1735	0.05 U	0.05 U	0.05 U	0.05 U

†Sample Aroclor pattern identified and/or calculated as Aroclor 1242.
*Sample exhibits alteration of standard Aroclor pattern.

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date Extracted: 09/20/90
Date Analyzed: 10/02 - 10/26/90

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 31, 1990

Client Project ID: GE Pittsfield, MA/AY03701 Job Number: GECP 46687

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

Client Sample ID	Lab Sample ID	Aroclor 1016, 1232 1242† and/or 1248	Aroclor 1254	Aroclor 1260	Total Aroclors
LS-8(20-22')	LL8174	30 U	990	80 U	990
LS-8(22-24')	LL8175	2 U	130	7 U	130
LS-9(0-2')	LL8176	0.2 U	7.2	8.5	16
LS-9(2-4')	LL8177	0.05 U	1.5	0.08 U	1.5
LS-9(4-6')	LL8178	0.05 U	1.8	0.08 U	1.8
LS-9(6-8')	LL8179	0.05 U	1.6	0.09 U	1.6
LS-9(8-10')	LL8180	0.08 U	2.3	0.20 U	2.3
LS-9(10-12')	LL8181	0.05 U	2.0	0.1 U	2.0
LS-9(12-14')	LL8182	0.05 U	2.1	0.1 U	2.1
LS-9(16-18')	LL8183	0.05 U	1.5	0.07 U	1.5
LS-9(18-20')	LL8184	0.05 U	0.61 *	0.05 U	0.61
Method Blank	BLA1744	0.05 U	0.05 U	0.05 U	0.05 U

†Sample Aroclor pattern identified and/or calculated as Aroclor 1242.
*Sample exhibits alteration of standard Aroclor pattern.

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date Extracted: 10/26/90
Date Analyzed: 10/26/90

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
November 19, 1990

Client Project ID: GE Lyman St./AY03701

Job Number: GECP 46718

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

Client Sample ID	Lab Sample ID	Aroclor 1016, 1232 1242† and/or 1248	Aroclor 1254	Aroclor 1260	Total Aroclors
LS-10(0-2')	LL8345	0.05 U	0.51	0.05 U	0.51
LS-10(2-4')	LL8346	0.1 U	8.9	0.6 U	8.9
LS-10(4-6')	LL8347	0.05 U	0.45	0.05 U	0.45
LS-10(6-8')	LL8348	0.05 U	3.1	0.2 U	3.1
LS-10(8-10')	LL8349	0.05 U	0.10	0.05 U	0.10
LS-10(12-14')	LL8350	0.05 U	1.4	0.07 U	1.4
LS-10(14-16')	LL8351	0.05 U	0.73	0.05 U	0.73
LS-10(16-18')	LL8352	0.06 U	4.4	0.2 U	4.4
LS-10(18-20')	LL8353	0.05 U	0.28	0.05 U	0.28
LS-10(20-22')	LL8354	0.05 U	0.31	0.05 U	0.31
LS-10(22-24')	LL8355	0.05 U	0.46	0.05 U	0.46
LS-12(2-4')	LL8356	0.05 U	0.84	1.4	2.2
LS-12(6-8')	LL8357	0.05 U	3.9	1.0	4.9
LS-12(10-12')	LL8358	0.05 U	0.65	0.31	0.96
LS-12(14-16')	LL8359	0.05 U	0.21	0.08	0.29
LS-12(18-20')	LL8360	4 U	310	20 U	310
LS-12(24-26')	LL8361	0.2 U	23	0.7 U	23
Method Blank	BLA1767	0.05 U	0.05 U	0.05 U	0.05 U

†Sample Aroclor pattern identified and/or calculated as Aroclor 1242.

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date Extracted: 09/25 and 10/23/90
Date Analyzed: 10/06, 10/08, 10/09, and 10/25/90

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

Client Sample ID	Lab Sample ID	Aroclor 1016, 1232 1242† and/or 1248	Aroclor 1254	Aroclor 1260	Total Aroclors
LS-11(0-2')	LL8320	0.2 U	24	1 U	24
LS-11(2-4')	LL8321	20 U	1,300	90 U	1,300
LS-11(4-6')	LL8322	3,000 U	290,000	10,000 U	290,000
LS-11(6-8')	LL8323	40 U	2,000	80 U	2,000
LS-11(8-10')	LL8324	300 U	22,000	800 U	22,000
LS-11(12-14')	LL8325	9 U	640 *	20 U	640
LS-11(14-16')	LL8326	100 U	4,700	200 U	4,700
LS-11(16-18')	LL8327	7 U	440	20 U	440
LS-11(18-20')	LL8328	0.2 U	9.3	0.8 U	9.3
LS-11(20-22')	LL8329	0.3 U	14	0.8 U	14
LS-11(22-24')	LL8330	0.2 U	6.1	0.4 U	6.1
Method Blank	BLA1754	0.05 U	0.05 U	0.05 U	0.05 U

†Sample Aroclor pattern identified and/or calculated as Aroclor 1242.

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
* - Sample exhibits alteration of standard Aroclor pattern.

Date Extracted: 09/24/90
Date Analyzed: 10/03 to 10/26/90

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

General Electric Company
100 Woodlawn Avenue, Mail Drop C23
Pittsfield, MA 01201
ATTN: John Haggard

October 22, 1990

Job Number: GECP 46733

P.O. Number: PX38020990

This is the Certificate of Analysis for the following samples:

Client Project ID: GE Pittsfield/AV03701
Date Received by Lab: 09/24/90
Number of Samples: Six (6)
Sample Type: Soil

PCBs ANALYSIS

Results in mg/kg (ppm) dry weight

Client Sample ID	Lab Sample ID	Aroclor 1016, 1232 1242† and/or 1248		Aroclor 1254		Aroclor 1260		Total Aroclors	
LS-13 (2-4)	LL8505	20	U	1,100		1,200		2,300	
LS-13 (6-8)	LL8506	8	U	580		100	U	580	
LS-13 (10-12)	LL8507	10	U	330	*	84	*	410	
LS-13 (14-16)	LL8508	100	U	3,700	*	200	U	3,700	
LS-13 (18-20)	LL8509	7	U	560	*	20	U	560	
LS-13 (22-24)	LL8510	2	U	70	*	4	U	70	
Method Blank	BLA1768	0.05	U	0.05	U	0.05	U	0.05	U

† - Sample Aroclor pattern identified and/or calculated as Aroclor 1242.
U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
* - Sample exhibits alteration of standard Aroclor pattern.

Date Extracted: 09/25/90
Date Analyzed: 10/02, 10/03 and 10/04/90

Reviewed and Approved:

ATyce Moore
Laboratory Manager

APPENDIX IX ORGANOCHLORINE PESTICIDES AND PCBs ANALYSIS

Results in ug/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-7,14-16'
Lab Sample ID: LL7969

Compound		Compound	
α-BHC	11 U	methoxychlor	110 U
β-BHC	11 U	chlordane	110 U
δ-BHC	11 U	toxaphene	210 U
γ-BHC (lindane)	11 U	Aroclor 1016	110 U
heptachlor	11 U	Aroclor 1221	110 U
aldrin	17 D	Aroclor 1232	110 U
eptachlor epoxide	11 U	Aroclor 1242	110 U
dosulfan I	11 U	Aroclor 1248	110 U
eldrin	21 U	Aroclor 1254	2,200 D
4,4'-DDE	21 U	Aroclor 1260	210 U
endrin	21 U	endrin aldehyde	21 U
endosulfan II	21 U	isodrin	11 U
4,4'-DDD	21 U	kepone	21 U
endosulfan sulfate	21 U	chlorobenzilate	110 U
4,4'-DDT	21 U		

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
D - Compound analyzed at a secondary dilution factor.

Date Extracted: 09/19/90
Date Analyzed: 10/09/90
Dilution Factor: 1
% Moisture: 25

APPENDIX IX ORGANOCHLORINE PESTICIDES AND PCBs

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-8(16-18')
Lab Sample ID: LL8188

α-BHC	19,000 U	methoxychlor	190,000 U
β-BHC	19,000 U	chlordane	190,000 U
δ-BHC	19,000 U	toxaphene	370,000 U
γ-BHC (lindane)	19,000 U	Aroclor 1016	190,000 U
heptachlor	19,000 U	Aroclor 1221	190,000 U
aldrin	36,000 F	Aroclor 1232	190,000 U
heptachlor epoxide	19,000 U	Aroclor 1242	190,000 U
endosulfan I	55,000 F	Aroclor 1248	190,000 U
dieldrin	37,000 U	Aroclor 1254	5,200,000 F
4,4'-DDE	160,000 F	Aroclor 1260	370,000 U
endrin	37,000 U	endrin aldehyde	37,000 U
endosulfan II	37,000 U	isodrin	19,000 U
4,4'-DDD	37,000 U	kepone	37,000 U
endosulfan sulfate	37,000 U	chlorobenzilate	190,000 U
4,4'-DDT	37,000 U		

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
F - Peak offscale and therefore, out of linear range.

Date Extracted: 09/19/90
Date Analyzed: 10/12/90
Dilution Factor: 2,000
% Moisture: 15

General Electric Company
October 31, 1990

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

Client Project ID: GE Pittsfield, MA/AY03701

Job Number: GECP 46687

APPENDIX IX ORGANOCHLORINE PESTICIDES AND PCBs

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-8(16-18') DL
Lab Sample ID: LL8188 DL

α-BHC	190,000 U	methoxychlor	1,900,000 U
β-BHC	190,000 U	chlordane	1,900,000 U
δ-BHC	190,000 U	toxaphene	3,700,000 U
γ-BHC (lindane)	190,000 U	Aroclor 1016	1,900,000 U
heptachlor	190,000 U	Aroclor 1221	1,900,000 U
aldrin	150,000 DJ	Aroclor 1232	1,900,000 U
heptachlor epoxide	190,000 U	Aroclor 1242	1,900,000 U
endosulfan I	190,000 U	Aroclor 1248	1,900,000 U
dieldrin	370,000 U	Aroclor 1254	6,800,000 D
4,4'-DDE	370,000 U	Aroclor 1260	3,700,000 U
endrin	370,000 U	endrin aldehyde	370,000 U
endosulfan II	370,000 U	isodrin	190,000 U
4,4'-DDD	370,000 U	kepone	370,000 U
endosulfan sulfate	370,000 U	chlorobenzilate	1,900,000 U
4,4'-DDT	370,000 U		

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
D - Compound analyzed at a secondary dilution factor.
DL - Dilution

Date Extracted: 09/19/90
Date Analyzed: 10/11/90
Dilution Factor: 20,000
% Moisture: 15

APPENDIX IX ORGANOCHLORINE PESTICIDES AND PCBs

Results in ug/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-9(14-16')
Lab Sample ID: LL8189

Compound		Compound	
α-BHC	11 U	methoxychlor	110 U
β-BHC	21	chlordane	110 U
δ-BHC	11 U	toxaphene	220 U
γ-BHC (lindane)	11 U	Aroclor 1016	110 U
heptachlor	11 U	Aroclor 1221	110 U
aldrin	11 U	Aroclor 1232	110 U
heptachlor epoxide	11 U	Aroclor 1242	110 U
endosulfan I	53 F	Aroclor 1248	110 U
dieldrin	22 U	Aroclor 1254	1,400 F
4,4'-DDE	22 U	Aroclor 1260	220 U
endrin	22 U	endrin aldehyde	22 U
endosulfan II	22 U	isodrin	11 U
4,4'-DDD	22 U	kepone	22 U
endosulfan sulfate	22 U	chlorobenzilate	110 U
4,4'-DDT	22 U		

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
F - Peak offscale and therefore, out of linear range.

Date Extracted: 09/19/90
Date Analyzed: 10/09/90
Dilution Factor: 1
% Moisture: 29

APPENDIX IX ORGANOCHLORINE PESTICIDES AND PCBs

Results in ug/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-9(14-16') DL
Lab Sample ID: LL8189 DL

Compound		Compound	
α-BHC	56 U	methoxychlor	560 U
β-BHC	13 DJ	chlordane	560 U
δ-BHC	56 U	toxaphene	1,100 U
γ-BHC (lindane)	56 U	Aroclor 1016	560 U
heptachlor	56 U	Aroclor 1221	560 U
aldrin	56 U	Aroclor 1232	560 U
heptachlor epoxide	56 U	Aroclor 1242	560 U
endosulfan I	59 D	Aroclor 1248	560 U
dieldrin	110 U	Aroclor 1254	1,800 D
4,4'-DDE	110 U	Aroclor 1260	1,100 U
endrin	110 U	endrin aldehyde	110 U
endosulfan II	110 U	isodrin	56 U
4,4'-DDD	110 U	kepone	110 U
endosulfan sulfate	110 U	chlorobenzilate	560 U
4,4'-DDT	110 U		

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
D - Compound analyzed at a secondary dilution factor.
J - Indicates an estimated value less than the detection limit.
DL - Dilution

Date Extracted: 09/19/90
Date Analyzed: 10/10/90
Dilution Factor: 5
% Moisture: 29

APPENDIX IX ORGANOCHLORINE PESTICIDES

Results in ug/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS-10(10-12')
Lab Sample ID: LL8364

Compound			Compound		
α-BHC	8.8	U	methoxychlor	88	U
β-BHC	8.8	U	chlordane	88	U
δ-BHC	8.8	U	toxaphene	180	U
γ-BHC (lindane)	8.8	U	Aroclor 1016	88	U
heptachlor	8.8	U	Aroclor 1221	88	U
aldrin	8.8	U	Aroclor 1232	88	U
heptachlor epoxide	8.8	U	Aroclor 1242	88	U
endosulfan I	8.8	U	Aroclor 1248	88	U
dieldrin	18	U	Aroclor 1254	140	J
4,4'-DDE	18	U	Aroclor 1260	180	U
endrin	18	U	endrin aldehyde	18	U
endosulfan II	18	U	isodrin	8.8	U
4,4'-DDD	18	U	kepone	18	U
endosulfan sulfate	18	U	chlorobenzilate	88	U
4,4'-DDT	18	U			

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
J - Indicates an estimated value less than the detection limit.

Date Extracted: 09/25/90
Date Analyzed: 10/09/90
Dilution Factor: 1
% Moisture: 9

APPENDIX IX ORGANOCHLORINE PESTICIDES AND PCBs

Results in ug/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS11(10-12')DL
Lab Sample ID: LL8336 DL

α-BHC	240,000 U	methoxychlor	2,400,000 U
β-BHC	240,000 U	chlordane	2,400,000 U
δ-BHC	240,000 U	toxaphene	4,800,000 U
γ-BHC (lindane)	240,000 U	Aroclor 1016	2,400,000 U
heptachlor	240,000 U	Aroclor 1221	2,400,000 U
aldrin	170,000 DJ	Aroclor 1232	2,400,000 U
heptachlor epoxide	240,000 U	Aroclor 1242	2,400,000 U
endosulfan I	240,000 U	Aroclor 1248	2,400,000 U
dieldrin	480,000 U	Aroclor 1254	11,000,000 D
4,4'-DDE	480,000 U	Aroclor 1260	4,800,000 U
endrin	480,000 U	endrin aldehyde	480,000 U
endosulfan II	480,000 U	isodrin	240,000 U
4,4'-DDD	480,000 U	kepone	480,000 U
endosulfan sulfate	480,000 U	chlorobenzilate	2,400,000 U
4,4'-DDT	480,000 U		

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
D - Compound analyzed at a secondary dilution factor.
J - Indicates an estimated value less than the detection limit.

Date Extracted: 09/25/90
Date Analyzed: 10/11/90
Dilution Factor: 20,000
% Moisture: 34

APPENDIX IX ORGANOCHLORINE PESTICIDES AND PCBs

Results in µg/kg (ppb) dry weight

Sample Matrix: Soil

Client Sample ID: LS11(10-12')
Lab Sample ID: LL8336

α-BHC	24,000 U	methoxychlor	240,000 U
β-BHC	24,000 U	chlordane	240,000 U
δ-BHC	24,000 U	toxaphene	480,000 U
γ-BHC (lindane)	24,000 U	Aroclor 1016	240,000 U
heptachlor	24,000 U	Aroclor 1221	240,000 U
aldrin	57,000 F	Aroclor 1232	240,000 U
heptachlor epoxide	24,000 U	Aroclor 1242	240,000 U
endosulfan I	24,000 U	Aroclor 1248	240,000 U
dieldrin	48,000 U	Aroclor 1254	6,800,000 F
4,4'-DDE	48,000 U	Aroclor 1260	480,000 U
endrin	48,000 U	endrin aldehyde	48,000 U
endosulfan II	48,000 U	isodrin	24,000 U
4,4'-DDD	48,000 U	kepone	48,000 U
endosulfan sulfate	48,000 U	chlorobenzilate	240,000 U
4,4'-DDT	48,000 U		

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.
F - Peak offscale and therefore out of linear range.

Date Extracted: 09/25/90
Date Analyzed: 10/11/90
Dilution Factor: 2,000
% Moisture: 34

SECTION 10

ORGANOPHOSPHORUS PESTICIDES AND HERBICIDES (SOIL)

LS-Soil	-	Housatonic River Bank Surficial Soil Sample
LS-7 (14-16')	-	Soil Sample from Boring LS-7 at 14-16 feet
LS-8 (16-18')	-	Soil Sample from Boring LS-8 at 16-18 feet
LS-9 (14-16')	-	Soil Sample from Boring LS-9 at 14-16 feet
LS-10 (10-12')	-	Soil Sample from Boring LS-10 at 10-12 feet
LS-11 (10-12')	-	Soil Sample from Boring LS-11 at 10-12 feet

Client: Geraghty & Miller
Work Order: XO-09-115
00911504

IT ANALYTICAL SERVICES
CINCINNATI, OH

Appendix IX Organophosphorus Pesticides

Client Sample ID: 15-Soil # LL708

Lab Sample ID: XO-09-115-01

CAS Number		ug/Kg	
298-04-4	Disulfoton	7	U
52-85-7	Famphur	7	U
298-00-0	Methyl Parathion	7	U
56-38-2	Parathion	7	U
298-02-2	Phorate	7	U
3689-24-5	Sulfotep	7	U
297-97-2	Thionazin	7	U
	o,o,o-Triethyl-phosphorothioate	7	U

Client: Geraghty & Miller
Work Order: XO-09-115
00911507

IT ANALYTICAL SERVICES
CINCINNATI, OH

Appendix IX Herbicides

Client Sample ID: LS-Soil # LL7708

Lab Sample ID: XO-09-115-01

CAS Number		ug/Kg	
93-76-5	2,4,5-T	17	U
92-72-1	2,4,5-TP (Silvex)	17	U
94-75-7	2,4-D	62	U

Client: GMIA
Work Order: XO-09-116
00911603

IT ANALYTICAL SERVICES
CINCINNATI, OH

Appendix IX Organo-Phosphorous Pesticides and Herbicides

Client Sample ID: Soil LL7971-LS-7, 14-16

Sample Date: September 14, 1990
Lab Sample ID: XO-09-116-01

CAS Number		ug/Kg	
298-04-4	Disulfoton	7	U
52-85-7	Famphur	7	U
298-00-0	Methyl Parathion	7	U
56-38-2	Parathion	7	U
298-02-2	Phorate	7	U
3689-24-5	Sulfotep	7	U
297-97-2	Thionazin	7	U
	o,o,o-Triethyl-phosphorothioate	7	U
76-5	2,4,5-T	17	U
93-72-1	2,4,5-TP (Silvex)	17	U
94-75-7	2,4-D	62	U

Client: GMIA
Work Order: X0-09-136
00913603

IT ANALYTICAL SERVICES
CINCINNATI, OH

Appendix IX Organo-Phosphorous Pesticides and Herbicides

Client Sample ID: Soil # LL8192; LS-8 16-18'

Lab Sample ID: X0-09-136-01

CAS Number		ug/Kg
298-04-4	Disulfoton	7 U
52-85-7	Famphur	7 U
298-00-0	Methyl Parathion	7 U
56-38-2	Parathion	7 U
298-02-2	Phorate	7 U
3689-24-5	Sulfotep	7 U
297-97-2	Thionazin	7 U
	o,o,o-Triethyl-phosphorothioate	7 U
-76-5	2,4,5-T	102 U
-72-1	2,4,5-TP (Silvex)	102 U
94-75-7	2,4-D	370 U

Detection Limits have been increased due to dilution necessary because of matrix interferences.

Client: GMIA
Work Order: X0-09-136
00913604

IT ANALYTICAL SERVICES
CINCINNATI, OH

Appendix IX Organo-Phosphorous Pesticides and Herbicides

Client Sample ID: Soil # LL8193; LS-9 14-16'

Lab Sample ID: X0-09-136-02

CAS Number		ug/Kg	
298-04-4	Disulfoton	7	U
52-85-7	Famphur	7	U
298-00-0	Methyl Parathion	7	U
56-38-2	Parathion	7	U
298-02-2	Phorate	7	U
3689-24-5	Sulfotep	7	U
297-97-2	Thionazin	7	U
	o,o,o-Triethyl-phosphorothioate	7	U
-76-5	2,4,5-T	102	U
72-1	2,4,5-TP (Silvex)	102	U
94-75-7	2,4-D	370	U

Detection Limits have been increased due to dilution necessary because of matrix interferences.

Client: GMIA
Work Order: X0-09-159
00915904

IT ANALYTICAL SERVICES
CINCINNATI, OH

Appendix IX Organo-Phosphorous Pesticides and Herbicides

Client Sample ID: Soil LL8366; LS-10, (10'-12')

Lab Sample ID: X0-09-159-01

CAS Number		ug/Kg	
298-04-4	Disulfoton	7	U
52-85-7	Famphur	7	U
298-00-0	Methyl Parathion	7	U
56-38-2	Parathion	7	U
298-02-2	Phorate	7	U
3689-24-5	Sulfotep	7	U
297-97-2	Thionazin	7	U
	o,o,o-Triethyl-phosphorothioate	7	U
76-5	2,4,5-T	17	U
72-1	2,4,5-TP (Silvex)	17	U
94-75-7	2,4-D	62	U

Client: GMIA
Work Order: XO-09-159
00915905

IT ANALYTICAL SERVICES
CINCINNATI, OH

Appendix IX Organo-Phosphorous Pesticides and Herbicides

Client Sample ID: Soil LL8338; LS-11, (10'-12')

Lab Sample ID: XO-09-159-02

CAS Number		ug/Kg	
298-04-4	Disulfoton	7	U
52-85-7	Famphur	7	U
298-00-0	Methyl Parathion	50	U
56-38-2	Parathion	7	U
298-02-2	Phorate	7	U
3689-24-5	Sulfotep	7	U
297-97-2	Thionazin	7	U
	o,o,o-Triethyl-phosphorothioate	7	U
-76-5	2,4,5-T	1700	U*
/2-1	2,4,5-TP (Silvex)	100	U*
94-75-7	2,4-D	370	U*

* Detection limits increased due to matrix interferences.

APPENDIX IX METALS ANALYSIS

Results in mg/kg (ppm)

Sample Matrix: Soil

Client Sample ID:	Method Blank	LS-Soil
Lab Sample ID:	PBSC3200	LL7706
antimony	3 U	3 U
arsenic	3 U	3 U
barium	0.2 U	19.3
beryllium	0.1 U	0.2
cadmium	0.5 U	0.5 U
chromium	1 U	7
cobalt	2 U	4
copper	1 U	17
lead	3 U	19
mercury	0.1 U	0.1 U
nickel	2 U	7
selenium	6 U	6 U
silver	0.5 U	0.5 U
thallium	3 U	3 U
tin	2 U	2 U
vanadium	1 U	6
zinc	1.9	41

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Digestion Date: 09/27/90
Analysis Date: 10/03/90 (ICP)
10/04 - 10/05/90 (CVAA)

CLASSICAL PARAMETERS ANALYSIS

Results in mg/kg (ppm)

Sample Matrix: Soil

Client Sample ID: / Lab Sample ID:	Method Blank P1559/P1553	LS-Soil LL7706	Analysis Date
cyanide	0.50 U	0.50 U	09/25/90
sulfide	20 U	180	09/19/90

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

IT ANALYTICAL SERVICES
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN

General Electric Company
October 31, 1990

Client Project ID: GE Pittsfield, MA/AY03701

Job Number: GECP 46668

APPENDIX IX METALS ANALYSIS

Results in mg/kg (ppm)

Sample Matrix: Soil

Client Sample ID:	Method Blank	LS-7,14-16'
Lab Sample ID:	PBSC3227	LL7970
antimony	3 U	3 U
arsenic	3 U	3 U
barium	0.2 U	42.4
beryllium	0.1 U	0.1
cadmium	0.5 U	0.5 U
chromium	1 U	8
cobalt	2 U	6
copper	1 U	20
lead	3 U	16
ıercury	0.1 U	0.1 U
ickel	2 U	8
selenium	6 U	6 U
silver	0.5 U	0.5 U
thallium	3 U	22
tin	2 U	2 U
vanadium	1 U	7
zinc	0.5 U	47.8

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date Digested: 09/28/90
Date Analyzed: 10/18/90 (ICP)
10/08/90 (CVAA)

CLASSICAL PARAMETERS ANALYSIS

Results in mg/kg (ppm)

Sample Matrix: Soil

Client Sample ID: / Lab Sample ID:	Method Blank P1553/P1559	LS-7,14-16' LL7970	Analysis Date
cyanide	0.5 U	0.5 U	09/21/90
sulfide	20 U	130	09/19/90

J - Compound was analyzed for but not detected. The number is the detection limit for the sample.

APPENDIX IX METALS ANALYSIS

Results in mg/kg (ppm)

Sample Matrix: Soil

Client Sample ID:	Method Blank	LS-8(16-18')	LS-9(14-15')
Lab Sample ID:	PBSC3251	LL8190	LL8191
antimony	3 U	3 U	3 U
arsenic	3 U	3 U	3 U
barium	0.2 U	18.0	8.8
beryllium	0.1 U	0.1 U	0.1
cadmium	0.5 U	0.5 U	0.5 U
chromium	1 U	3	12
cobalt	2 U	4	3
copper	1 U	82	17
lead	3 U	11	14
mercury	0.1 U	0.1	0.1
nickel	2 U	6	2
selenium	6 U	6 U	6 U
silver	0.5 U	0.5 U	0.5 U
thallium	3 U	10	3 U
tin	2 U	6	5
vanadium	1 U	2	2
zinc	1.2	33.4	34.5

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date Digested: 10/01/90
Date Analyzed: 10/18/90 (ICP)
10/08/90 (CVAA)

CLASSICAL PARAMETERS ANALYSIS

Results in mg/kg (ppm)

Sample Matrix: Soil

Client Sample ID: / Lab Sample ID:	Method Blank P1580/P1588	LS-8(16-18') LL8190	LS-9(14-16') LL8191	Analysis Date
cyanide	0.5 U	1 U	1 U	09/27/90
sulfide	18 U	18 U	140	09/25/90

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

APPENDIX IX METALS ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

Client Sample ID:	Method Blank	LS-10(10-12')
Lab Sample ID:	PBSC3271	LL8365
antimony	3 U	3 U
arsenic	3 U	3 U
barium	0.2 U	6.0
beryllium	0.1 U	0.1 U
cadmium	0.5 U	0.5 U
chromium	1 U	2
cobalt	2 U	5
copper	1 U	19
lead	3 U	9
mercury	0.1 U	0.1 U
nickel	2 U	7
selenium	6 U	7 U
silver	0.9	0.5 U
thallium	3 U	3 U
tin	2 U	3
vanadium	1 U	1
zinc	1.3	23.5
% Solids	-	91

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date Digested: 10/02/90
Date Analyzed: 10/18/90 (ICP)
10/11/90 (CVAA)

CLASSICAL PARAMETERS ANALYSIS

Results in mg/kg (ppm) dry weight

Sample Matrix: Soil

Client Sample ID: Lab Sample ID:	Method Blank P1580/P1588	LS-10(10-12') LL8365	Analysis Date
cyanide	0.5 U	1 U	10/04/90
sulfide	18 U	20 U	09/25/90
% Solids	-	91	

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

APPENDIX IX METALS ANALYSIS

Results in mg/kg (ppm)

Sample Matrix: Soil

Client Sample ID:	Method Blank	LS-11(10-12')
Lab Sample ID:	PBSC3503	LL8337
antimony	3 U	3 U
arsenic	3 U	3 U
barium	0.2 U	232
beryllium	0.1 U	0.2
~~barium~~ cadmium	0.5 U	1.7
chromium	1 U	56
cobalt	2 U	9
copper	1 U	1,050
lead	3 U	803
mercury	0.1 U	0.3
nickel	2 U	62
selenium	6 U	6 U
silver	0.5 U	1.8
thallium	3 U	3 U
tin	2 U	50
vanadium	1 U	9
zinc	1.0	768

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date Digested: 10/22/90 (ICP)
Date Analyzed: 10/25/90 (ICP), 10/11/90 (CVAA)

CLASSICAL PARAMETERS ANALYSIS

Results in mg/kg (ppm)

Sample Matrix: Soil

Client Sample ID:	Method Blank	LS-11 (10-12')
Lab Sample ID:	P1580/P1588	LL8337
cyanide	0.5 U	0.5 U
sulfide	18 U	130

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

Date Analyzed: 09/25 and 09/27/90

SECTION 12

PCDDs/PCDFs (SOIL)

LS-Soil	-	Housatonic River Bank Surficial Soil Sample
LS-7 (14-16')	-	Soil Sample from Boring LS-7 at 14-16 feet
LS-8 (16-18')	-	Soil Sample from Boring LS-8 at 16-18 feet
LS-9 (14-16')	-	Soil Sample from Boring LS-9 at 14-16 feet
LL8367/LS-10 (10-12')	-	Soil Sample from Boring LS-10 at 10-12 feet
LL8339/LS-11 (10-12')	-	Soil Sample from Boring LS-11 at 10-12 feet

Kim Laisy
Geraghty & Miller
Date: October 15, 1990
Client Project ID: GMIA46636 TDL Project No.: GMIA482739

IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TENNESSEE

Dioxin/Furan Analysis - Modified Method 8280

Client Sample ID: LS-Soil
Sample Date: September 11, 1990
TDL Sample ID: BB2882
Extraction Date: September 19, 1990

Analyte	Conc. (ng/g)	Internal Standard	% Recovery
Isomer Specific Analysis Date: September 25, 1990			
2,3,7,8-TCDD	ND(0.037)	^{13}C-2,3,7,8-TCDD	66
Totals Analysis Date: September 25, 1990			
Dioxins			
Total TCDD	ND(0.14)	^{13}C-2,3,7,8-TCDD	77
Total PeCDD	ND(1.4)	^{13}C-1,2,3,7,8-PeCDD	72
Total HxCDD	ND(0.65)	^{13}C-1,2,3,6,7,8-HxCDD	78
Furans			
Total TCDF	1.0[a]	^{13}C-2,3,7,8-TCDF	88
Total PeCDF	0.83[a]	^{13}C-1,2,3,7,8-PeCDF	74
Total HxCDF	0.60[a]	^{13}C-1,2,3,4,7,8-HxCDF	80

[a]Possible interference from polychlorinated diphenyl ethers.

Mary Tyler
Geraghty & Miller
Date: October 12, 1990
Client Project ID: GMIA46668

IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TENNESSEE

TDL Project No.: GMIA482744

Dioxin/Furan Analysis - Modified Method 8280

Client Sample ID: LS-7, (14-16') (Soil)
Sample Date: September 14, 1990
TDL Sample ID: BB2895
Extraction Date: September 24, 1990

Analyte	Conc. (ng/g)	Internal Standard	% Recovery
Isomer Specific Analysis Date: September 27, 1990			
2,3,7,8-TCDD	ND(0.038)	^{13}C-2,3,7,8-TCDD	58
Totals Analysis Date: September 26, 1990			
Dioxins			
Total TCDD	ND(0.061)	^{13}C-2,3,7,8-TCDD	76
Total PeCDD	ND(0.12)	^{13}C-1,2,3,7,8-PeCDD	77
Total HxCDD	ND(0.14)	^{13}C-1,2,3,6,7,8-HxCDD	81
Furans			
Total TCDF	ND(0.034)	^{13}C-2,3,7,8-TCDF	84
Total PeCDF	ND(0.050)	^{13}C-1,2,3,7,8-PeCDF	78
Total HxCDF	ND(0.11)	^{13}C-1,2,3,4,7,8-HxCDF	90

Kim Laisy
Geraghty & Miller
Date: November 21, 1990
Client Project ID: GMIA46687 TDL Project No.: GMIA482748

IT ANALYTICAL SERVICES
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Dioxin/Furan Analysis - Modified Method 8280

Client Sample ID: LS-8 (16-18') (Soil, 0.1 g)
Sample Date: September 17, 1990
TDL Sample ID: BB2901R3
Extraction Date: November 2, 1990

Analyte	Conc. (ng/g)	Internal Standard	% Recovery
Isomer Specific Analysis Date: November 5, 1990			
2,3,7,8-TCDD	NR	^{13}C-2,3,7,8-TCDD	NR
Totals Analysis Date: November 5, 1990			
Dioxins			
Total TCDD	NR	^{13}C-2,3,7,8-TCDD	NR
Total PeCDD	ND(240.)	^{13}C-1,2,3,7,8-PeCDD	86
Total HxCDD	ND(35.1)	^{13}C-1,2,3,6,7,8-HxCDD	89
Furans			
Total TCDF	321.	^{13}C-2,3,7,8-TCDF	76
Total PeCDF	176.	^{13}C-1,2,3,7,8-PeCDF	69
Total HxCDF	ND(56.8)	^{13}C-1,2,3,4,7,8-HxCDF	84

NR = Not reportable due to ^{13}C-Internal Standards interference.

Kim Laisy
Geraghty & Miller
Date: November 21, 1990
Client Project ID: GMIA46687 TDL Project No.: GMIA482748

IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TENNESSEE

Dioxin/Furan Analysis - Modified Method 8280

Client Sample ID: LS-9 (14-16') (Soil, 1.0 g)
Sample Date: September 17, 1990
TDL Sample ID: BB2902R
Extraction Date: October 16, 1990

Analyte	Conc. (ng/g)	Internal Standard	% Recovery
Isomer Specific Analysis Date: October 25, 1990			
2,3,7,8-TCDD	ND(2.6)	^{13}C-2,3,7,8-TCDD	58
Totals Analysis Date: November 1, 1990			
Dioxins			
Total TCDD	ND(0.47)	^{13}C-2,3,7,8-TCDD	68
Total PeCDD	ND(0.90)	^{13}C-1,2,3,7,8-PeCDD	94
Total HxCDD	ND(4.4)	^{13}C-1,2,3,6,7,8-HxCDD	72
Furans			
Total TCDF	ND(0.40)	^{13}C-2,3,7,8-TCDF	74
Total PeCDF	ND(0.28)	^{13}C-1,2,3,7,8-PeCDF	82
Total HxCDF	ND(0.40)	^{13}C-1,2,3,4,7,8-HxCDF	78

Mary Tyler
Geraghty & Miller
Date: November 8, 1990
Client Project ID: GMIA46718 TDL Project No.: GMIA482754

IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TENNESSEE

Dioxin/Furan Analysis - Modified Method 8280

Client Sample ID: LL8367/LS-10 (10-12) (Soil)
Sample Date: September 19, 1990
TDL Sample ID: BB2910R
Extraction Date: October 29, 1990

Analyte	Conc. (ng/g)	Internal Standard	% Recovery
Isomer Specific Analysis Date: October 31, 1990			
2,3,7,8-TCDD	ND(2.4)	^{13}C-2,3,7,8-TCDD	68
Totals Analysis Date: November 1, 1990			
Dioxins			
Total TCDD	ND(0.34)	^{13}C-2,3,7,8-TCDD	74
Total PeCDD	ND(0.77)	^{13}C-1,2,3,7,8-PeCDD	99
Total HxCDD	ND(1.1)	^{13}C-1,2,3,6,7,8-HxCDD	77
Furans			
Total TCDF	ND(0.39)	^{13}C-2,3,7,8-TCDF	82
Total PeCDF	ND(0.24)	^{13}C-1,2,3,7,8-PeCDF	85
Total HxCDF	ND(0.15)	^{13}C-1,2,3,4,7,8-HxCDF	88

Mary Tyler
Geraghty & Miller
Date: November 8, 1990
lient Project ID: GIA46716

IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TENNESSEE

TDL Project No.: GMIA482753

Dioxin/Furan Analysis - Modified Method 8280

Client Sample ID: LL8339/LS-11 (10-12) (Soil)
Sample Date: September 18, 1990
TDL Sample ID: BB2909R
Extraction Date: October 29, 1990

Analyte	Conc. (ng/g)	Internal Standard	% Recovery
Isomer Specific Analysis Date: October 31, 1990			
2,3,7,8-TCDD	ND(2.1)	^{13}C-2,3,7,8-TCDD	76
Totals Analysis Date: October 31 1990			
Dioxins			
Total TCDD	ND(1.2)	^{13}C-2,3,7,8-TCDD	89
Total PeCDD	ND(1.6)	^{13}C-1,2,3,7,8-PeCDD	110
Total HxCDD	ND(2.5)	^{13}C-1,2,3,6,7,8-HxCDD	88
Furans			
Total TCDF	8.7	^{13}C-2,3,7,8-TCDF	94
Total PeCDF	6.2	^{13}C-1,2,3,7,8-PeCDF	99
Total HxCDF	6.4	^{13}C-1,2,3,4,7,8-HxCDF	98

SECTION 13

VOLATILE AND SEMIVOLATILE ORGANICS AND PCBs [NON-AQUEOUS PHASE LIQUID (NAPL)]

RL12FDNAP	-	NAPL Sample from Well LS-12
RL21FDNAP	-	NAPL Sample from Well LS-21
RL04F1819	-	NAPL Sample from Well LS-4 at 18-19 feet
RLR1F2121	-	NAPL Sample from Well RW-1 at 21 feet

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RLR1F2121

Lab Name: COMPUCHEM.RTP Contract: 500077

Lab Code: COMPU Case No.: 24020 SAS No.: _____ SDG No.: 1

Matrix: (soil/water) SOIL Lab Sample ID: 443701

Sample wt/vol: 4.0 (g/mL) G Lab File ID: CR043701A03

Level: (low/med) MED Date Received: 09/09/91

% Moisture: not dec. _____ Date Analyzed: 09/21/91

Column: (pack/cap) CAP Dilution Factor: 2.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	3400	U
74-83-9	Bromomethane	1800	U
75-01-4	Vinyl Chloride	3400	U
75-00-3	Chloroethane	3400	U
75-09-2	Methylene Chloride	1800 ~~490~~	~~BJ~~ U
67-64-1	Acetone	3400	U
75-15-0	Carbon Disulfide	1800	U
75-35-4	1,1-Dichloroethene	1800	U
75-34-3	1,1-Dichloroethane	1800	U
540-59-0	1,2-Dichloroethene (total)	770	J
67-66-3	Chloroform	910	J
107-06-2	1,2-Dichloroethane	1800	U
78-93-3	2-Butanone	3400	U
71-55-6	1,1,1-Trichloroethane	1800	U
56-23-5	Carbon Tetrachloride	3900	A
108-05-4	Vinyl Acetate	3400	U
75-27-4	Bromodichloromethane	1800	U
78-87-5	1,2-Dichloropropane	1800	U
10061-01-5	cis-1,3-Dichloropropene	1800	U
79-01-6	Trichloroethene	3700	A
124-48-1	Dibromochloromethane	1800	U
79-00-5	1,1,2-Trichloroethane	1800	U
71-43-2	Benzene	670	~~BJ~~ J
10061-02-6	Trans-1,3-Dichloropropene	1800	U
110-75-8	2-Chloroethylvinylether	3400	U
75-25-2	Bromoform	3400	U
108-10-1	4-Methyl-2-Pentanone	5400	U
591-78-6	2-Hexanone	5400	U
127-18-4	Tetrachloroethene	440	J
79-34-5	1,1,2,2-Tetrachloroethane	3400	U
108-88-3	Toluene	2700	A
108-90-7	Chlorobenzene	23000	A
100-41-4	Ethylbenzene	6300	A
100-42-5	Styrene	1800	U
1330-20-7	Total Xylenes	82000	~~BJ~~ J
74-88-4	Iodomethane	3400	U

UKK 911123

107-02-8	Acrolein	31000	U
107-13-1	Acrylonitrile	43000	U
75-69-4	Trichlorofluoromethane	1800	U
107-05-1	3-Chloropropene	5400	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	3400	U
354-58-5	1,1,1-Trichloro-2,2,2-trifluo	3400	U
74-95-3	Dibromomethane	3400	U
4170-30-3	Crotonaldehyde	34000	~~U~~ R
106-93-4	1,2-Dibromoethane	1800	U
630-20-6	1,1,1,2-Tetrachloroethane	1800	U
764-71-0	cis-1,4-Dichloro-2-butene	5400	U
96-18-4	1,2,3-Trichloropropane	5400	U
764-41-0	trans-1,4-Dichloro-2-butene	5400	U
97-63-2	Ethylmethacrylate	3400	U
96-12-8	1,2-Dibromo-3-chloropropane	3400	~~U~~ R

911123

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RLR1F2121

Lab Name: COMPUCHEM.RTP Contract: 500077

Lab Code: COMPU Case No.: 24020 SAS No.: _____ SDG No.: 05

Matrix: (soil/water) SOIL Lab Sample ID: 443705

Sample wt/vol: 1.7 (g/mL) G Lab File ID: GD043705A06

Level: (low/med) MED Date Received: 09/09/91

% Moisture: not dec. _____ dec. _____ Date Extracted: 09/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/23/91

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 30

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	350000	U
110-86-1	Pyridine	350000	U
97-63-2	Ethyl methacrylate	350000	U
123-63-7	Paraldehyde	350000	U
109-06-8	2-Picoline	700000	U
10595-95-6	Nitrosomethylethylamine	350000	U
66-27-3	Methyl methanesulfonate	350000	U
55-18-5	N-Nitrosodiethylamine	350000	U
62-50-0	Ethyl methanesulfonate	350000	U
108-95-2	Phenol	350000	U
62-53-3	Aniline	350000	U
76-01-7	Pentachloroethane	350000	U
111-44-4	bis(2-Chloroethyl)Ether	700000	U
95-57-8	2-Chlorophenol	350000	U
541-73-1	1,3-Dichlorobenzene	150000	J
100-44-7	Benzyl Chloride	350000	U
106-46-7	1,4-Dichlorobenzene	1100000	A
100-51-6	Benzyl Alcohol	350000	U
95-50-1	1,2-Dichlorobenzene	47000	J
95-48-7	2-Methylphenol	350000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	350000	U
108-39-4	3-Methylphenol	350000	U
106-44-5	4-Methylphenol	350000	U
930-55-2	N-Nitrosopyrrolidine	350000	U
59-89-2	N-Nitrosomorpholine	350000	U
98-86-2	Acetophenone	350000	U
621-64-7	N-Nitroso-Di-n-Propylamine	350000	U
636-21-5	o-Toluidine hydrochloride	350000	U
67-72-1	Hexachloroethane	350000	U
98-95-3	Nitrobenzene	350000	U
100-75-4	N-Nitrosopiperidine	350000	U
78-59-1	Isophorone	350000	U
88-75-5	2-Nitrophenol	350000	U
105-67-9	2,4-Dimethylphenol	350000	U

108-70-3	1,3,5-Trichlorobenzene	350000	U
98-87-3	Benzal Chloride	350000	U
65-85-0	Benzoic Acid	3400000	U
111-91-1	bis(2-Chloroethoxy)Methane	350000	U
120-83-2	2,4-Dichlorophenol	350000	U
120-82-1	1,2,4-Trichlorobenzene	2200000	A
91-20-3	Naphthalene	2800000	A
106-47-8	4-Chloroaniline	350000	U
87-65-0	2,6-Dichlorophenol	700000	U
95-54-5	o-Phenylenediamine	350000	U UJ
122-09-8	dimethylphenylethylamine	350000	U R
1888-71-7	Hexachloropropene	350000	U
87-68-3	Hexachlorobutadiene	350000	U
87-61-6	1,2,3-Trichlorobenzene	470000	A
98-07-7	Benzotrichloride	700000	U
924-16-3	N-Nitroso-di-n-butylamine	350000	U
59-50-7	4-Chloro-3-Methylphenol	350000	U
106-50-3	P-Phenylenediamine	350000	U R
94-59-7	Safrole	350000	U
106-50-3	m-Phenylenediamine	350000	U R
91-57-6	2-Methylnaphthalene	1400000	A
90-12-0	1-Methylnaphthalene	1800000	A
95-94-3	1,2,4,5-Tetrachlorobenzene	90000	~~JH~~ J
634-90-2	1,2,3,5-Tetrachlorobenzene	90000	~~JH~~
77-47-4	Hexachlorocyclopentadiene	350000	U
88-06-2	2,4,6-Trichlorophenol	700000	U
95-95-4	2,4,5-Trichlorophenol	700000	U
120-58-1	Isosafrole	700000	U
91-58-7	2-Chloronaphthalene	350000	U
90-13-1	1-Chloronaphthalene	350000	U
634-66-2	1,2,3,4-Tetrachlorobenzene	350000	U
88-74-4	2-Nitroaniline	350000	U
130-15-4	1,4-Naphthoquinone	700000	U
100-25-4	1,4-Dinitrobenzene	700000	U
131-11-3	Dimethyl Phthalate	350000	U
208-96-8	Acenaphthylene	120000	J
606-20-2	2,6-Dinitrotoluene	180000	U UJ

Total

UHH
911123

RLRIF2121

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RLR1F2121

Lab Name: COMPUCHEM,RTP Contract: 500077

Lab Code: COMPU Case No.: 24020 SAS No.: _____ SDG No.: 05

Matrix: (soil/water) SOIL Lab Sample ID: 443705

Sample wt/vol: 1.7 (g/mL) G Lab File ID: GD043705A06

Level: (low/med) MED Date Received: 09/09/91

% Moisture: not dec. _____ dec. _____ Date Extracted: 09/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/23/91

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 30

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	700000	U
83-32-9	Acenaphthene	300000	J
51-28-5	2,4-Dinitrophenol	1400000	U
100-02-7	4-Nitrophenol	350000	U
132-64-9	Dibenzofuran	110000	J
121-14-2	2,4-Dinitrotoluene	350000	U
608-93-5	Pentachlorobenzene	350000	U
91-59-8	2-Naphthylamine	700000	~~U~~ UJ
134-32-7	1-Naphthylamine	700000	~~U~~ UJ
58-90-2	2,3,4,6-Tetrachlorophenol	700000	U
84-66-2	Diethylphthalate	350000	U
297-97-2	Zinophos	350000	U
7005-72-3	4-Chlorophenyl-phenylether	350000	U
86-73-7	Fluorene	680000	A
100-01-6	4-Nitroaniline	700000	U
99-55-8	5-Nitro-o-toluidine	700000	U
122-66-7	1,2-Diphenylhydrazine	350000	U
534-52-1	4,6-Dinitro-2-Methylphenol	1000000	U
86-30-6	N-Nitrosodiphenylamine (1)	350000	U
122-39-4	Diphenylamine	350000	U
99-35-4	1,3,5-Trinitrobenzene	700000	U
62-44-2	Phenacetin	350000	U
101-55-3	4-Bromophenyl-phenylether	350000	U
2303-16-4	Diallate	350000	U
60-51-5	Dimethoate	350000	U
118-74-1	Hexachlorobenzene	350000	U
92-67-1	4-Aminobiphenyl	350000	U
23950-58-5	Pronamide	350000	U
87-86-5	Pentachlorophenol	700000	U
82-68-8	Pentachloronitrobenzene	350000	U
85-01-8	Phenanthrene	1800000	A
120-12-7	Anthracene	440000	A
84-74-2	Di-n-Butylphthalate	350000	U
91-80-5	Methapyrilene	700000	U

(1) - Cannot be separated from Diphenylamine

50-18-0	Cyclophosphamide	1700000	U
206-44-0	Fluoranthene	650000	A
92-87-5	Benzidine	350000	U
129-00-0	Pyrene	820000	A
60-11-7	p-Dimethylaminoazobenzene	350000	U
510-15-6	Chlorobenzilate	350000	U
119-93-7	3,3'-Dimethylbenzidine	700000	U
85-68-7	Butylbenzylphthalate	350000	U
53-96-3	2-Acetylaminofluorene	350000	U
101-14-4	Methylene-bis(2-Chloroaniline	350000	U
91-94-1	3,3'-Dichlorobenzidine	350000	U
119-90-4	3,3'-Dimethoxybenzidine	350000	U
56-55-3	Benzo(a)Anthracene	330000	J
218-01-9	Chrysene	320000	J
117-81-7	bis(2-Ethylhexyl)Phthalate	350000	U
117-84-0	Di-n-Octyl Phthalate	350000	U
205-99-2	Benzo(b)Fluoranthene	350000	U
57-97-6	7,12-Dimethylbenzanthracene	350000	U
207-08-9	Benzo(k)Fluoranthene	350000	U
50-32-8	Benzo(a)Pyrene	250000	J
56-49-5	3-Methylcholanthrene	350000	U
224-42-0	Dibenzo(a,j)acridine	350000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	350000	U
53-70-3	Dibenz(a,h)Anthracene	350000	U
191-24-2	Benzo(g,h,i)Perylene	350000	U
		700000	U R

(1) - Cannot be separated from Diphenylamine

LMM 911123

RLRIF2121

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RLO4F1819

Lab Name: COMPUCHEM LRTP Contract: 500077

Lab Code: COMPU Case No.: 24020 SAS No.: _____ SDG No.: 1

Matrix: (soil/water) SOIL Lab Sample ID: 443713

Sample wt/vol: 4.0 (g/mL) G Lab File ID: C2R43713A03

Level: (low/med) MED Date Received: 09/09/91

% Moisture: not dec. _____ Date Analyzed: 09/21/91

Column: (pack/cap) CAP Dilution Factor: 29

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	34000	U
74-83-9	Bromomethane	18000	U
75-01-4	Vinyl Chloride	34000	U
75-00-3	Chloroethane	34000	U
75-09-2	Methylene Chloride	4700	~~BJ~~ J
67-64-1	Acetone	20000	~~BJ~~ J
75-15-0	Carbon Disulfide	18000	U
75-35-4	1,1-Dichloroethene	18000	U
75-34-3	1,1-Dichloroethane	18000	U
540-59-0	1,2-Dichloroethene (total)	18000	U
67-66-3	Chloroform	13000	J
107-06-2	1,2-Dichloroethane	18000	U
78-93-3	2-Butanone	34000	U
71-55-6	1,1,1-Trichloroethane	18000	U
56-23-5	Carbon Tetrachloride	530000	J
108-05-4	Vinyl Acetate	34000	U
75-27-4	Bromodichloromethane	18000	U
78-87-5	1,2-Dichloropropane	18000	U
10061-01-5	cis-1,3-Dichloropropene	18000	U
79-01-6	Trichloroethene	61000	J
124-48-1	Dibromochloromethane	18000	U
79-00-5	1,1,2-Trichloroethane	18000	U
71-43-2	Benzene	3600	~~BJ~~ J
10061-02-6	Trans-1,3-Dichloropropene	18000	U
110-75-8	2-Chloroethylvinylether	34000	U
75-25-2	Bromoform	34000	U
108-10-1	4-Methyl-2-Pentanone	54000	U
591-78-6	2-Hexanone	250000	J
127-18-4	Tetrachloroethene	18000	U
79-34-5	1,1,2,2-Tetrachloroethane	34000	U
108-88-3	Toluene	16000	J
108-90-7	Chlorobenzene	20000	J
100-41-4	Ethylbenzene	34000	J
100-42-5	Styrene	18000	U
1330-20-7	Total Xylenes	300000	J
74-88-4	Iodomethane	34000	U

FORM I VOA 1/87 Rev.

107-02-8	Acrolein	310000	U
107-13-1	Acrylonitrile	430000	U
75-69-4	Trichlorofluoromethane	18000	U
107-05-1	3-Chloropropene	54000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	34000	U
354-58-5	1,1,1-Trichloro-2,2,2-trifluo	34000	U
74-95-3	Dibromomethane	34000	U
4170-30-3	Crotonaldehyde	340000	~~U~~ R
106-93-4	1,2-Dibromoethane	18000	U
630-20-6	1,1,1,2-Tetrachloroethane	18000	U
764-71-0	cis-1,4-Dichloro-2-butene	54000	U
96-18-4	1,2,3-Trichloropropane	54000	U
764-41-0	trans-1,4-Dichloro-2-butene	54000	U
97-63-2	Ethylmethacrylate	34000	U
96-12-8	1,2-Dibromo-3-chloropropane	34000	~~U~~ R

Under GW25

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RLO4F1819

Lab Name: COMPUCHEM,RTP Contract: 500077

Lab Code: COMPU Case No.: 24020 SAS No.: _____ SDG No.: 05

Matrix: (soil/water) SOIL Lab Sample ID: 443714

Sample wt/vol: 1.7 (g/mL) G Lab File ID: G2D43714A06

Level: (low/med) MED Date Received: 09/09/91

% Moisture: not dec. _____ dec. _____ Date Extracted: 09/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/25/91

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 100

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	1200000	R
110-86-1	Pyridine	1200000	UJ
97-63-2	Ethyl methacrylate	1200000	U
123-63-7	Paraldehyde	1200000	U
109-06-8	2-Picoline	2300000	U
10595-95-6	Nitrosomethylethylamine	1200000	U
66-27-3	Methyl methanesulfonate	1200000	U
55-18-5	N-Nitrosodiethylamine	1200000	U
62-50-0	Ethyl methanesulfonate	1200000	U
108-95-2	Phenol	1200000	U
62-53-3	Aniline	1200000	U
76-01-7	Pentachloroethane	1200000	U
111-44-4	bis(2-Chloroethyl)Ether	2300000	U
95-57-8	2-Chlorophenol	1200000	U
541-73-1	1,3-Dichlorobenzene	1200000	U
100-44-7	Benzyl Chloride	1200000	U
106-46-7	1,4-Dichlorobenzene	650000	J
100-51-6	Benzyl Alcohol	1200000	U
95-50-1	1,2-Dichlorobenzene	1200000	U
95-48-7	2-Methylphenol	1200000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	1200000	U
108-39-4	3-Methylphenol	1200000	U
106-44-5	4-Methylphenol	1200000	U
930-55-2	N-Nitrosopyrrolidine	1200000	U
59-89-2	N-Nitrosomorpholine	1200000	U
98-86-2	Acetophenone	1200000	U
621-64-7	N-Nitroso-Di-n-Propylamine	1200000	U
636-21-5	o-Toluidine hydrochloride	1200000	U
67-72-1	Hexachloroethane	1200000	U
98-95-3	Nitrobenzene	1200000	R UJ
100-75-4	N-Nitrosopiperidine	1200000	U
78-59-1	Isophorone	1200000	U
88-75-5	2-Nitrophenol	1200000	U
105-67-9	2,4-Dimethylphenol	1200000	U

(1) - Cannot be separated from Diphenylamine

108-70-3	1,3,5-Trichlorobenzene	1200000	U
98-87-3	Benzal Chloride	1200000	U
65-85-0	Benzoic Acid	12000000	U
111-91-1	bis(2-Chloroethoxy)Methane	1200000	U
120-83-2	2,4-Dichlorophenol	1200000	U
120-82-1	1,2,4-Trichlorobenzene	8600000	A
91-20-3	Naphthalene	37000000	E J
106-47-8	4-Chloroaniline	1200000	U
87-65-0	2,6-Dichlorophenol	2300000	U
95-54-5	o-Phenylenediamine	1200000	~~U~~ UJ
122-09-8	dimethylphenylethylamine	1200000	~~U~~ R
1888-71-7	Hexachloropropene	1200000	U
87-68-3	Hexachlorobutadiene	1200000	U
87-61-6	1,2,3-Trichlorobenzene	1400000	A
98-07-7	Benzotrichloride	2300000	U
924-16-3	N-Nitroso-di-n-butylamine	1200000	U
59-50-7	4-Chloro-3-Methylphenol	1200000	U
106-50-3	P-Phenylenediamine	1200000	~~U~~ R
94-59-7	Safrole	1200000	U
106-50-3	m-Phenylenediamine	1200000	~~U~~ R
91-57-6	2-Methylnaphthalene	13000000	A
90-12-0	1-Methylnaphthalene	16000000	A
95-94-3	1,2,4,5-Tetrachlorobenzene	SV total 290000	~~J~~ J
634-90-2	1,2,3,5-Tetrachlorobenzene	~~290000~~	~~J~~
77-47-4	Hexachlorocyclopentadiene	1200000	U
88-06-2	2,4,6-Trichlorophenol	2300000	U
95-95-4	2,4,5-Trichlorophenol	2300000	U
120-58-1	Isosafrole	2300000	U
91-58-7	2-Chloronaphthalene	1200000	U
90-13-1	1-Chloronaphthalene	1200000	U
634-66-2	1,2,3,4-Tetrachlorobenzene	1200000	U
88-74-4	2-Nitroaniline	1200000	U
130-15-4	1,4-Naphthoquinone	2300000	U
100-25-4	1,4-Dinitrobenzene	2300000	U
131-11-3	Dimethyl Phthalate	1200000	U
208-96-8	Acenaphthylene	1200000	A
606-20-2	2,6-Dinitrotoluene	590000	~~U~~ UJ

UA 9/11/23

RL04F1819

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RLO4F1819

Lab Name: COMPUCHEM.RTP Contract: 500077

Lab Code: COMPU Case No.: 24020 SAS No.: _____ SDG No.: 05

Matrix: (soil/water) SOIL Lab Sample ID: 443714

Sample wt/vol: 1.7 (g/mL) G Lab File ID: G2D43714A06

Level: (low/med) MED Date Received: 09/09/91

% Moisture: not dec. _____ dec. _____ Date Extracted: 09/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/25/91

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 100

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2300000	U
83-32-9	Acenaphthene	1000000	J
51-28-5	2,4-Dinitrophenol	4700000	U
100-02-7	4-Nitrophenol	1200000	U
132-64-9	Dibenzofuran	300000	J
121-14-2	2,4-Dinitrotoluene	1200000	U
608-93-5	Pentachlorobenzene	1200000	U
91-59-8	2-Naphthylamine	2300000	~~U~~ UJ
134-32-7	1-Naphthylamine	2300000	~~U~~ UJ
58-90-2	2,3,4,6-Tetrachlorophenol	2300000	U
84-66-2	Diethylphthalate	1200000	U
297-97-2	Zinophos	1200000	U
7005-72-3	4-Chlorophenyl-phenylether	1200000	U
86-73-7	Fluorene	4500000	A
100-01-6	4-Nitroaniline	2300000	U
99-55-8	5-Nitro-o-toluidine	2300000	U
122-66-7	1,2-Diphenylhydrazine	1200000	U
534-52-1	4,6-Dinitro-2-Methylphenol	3500000	U
86-30-6	N-Nitrosodiphenylamine (1)	1200000	U
122-39-4	Diphenylamine	1200000	U
99-35-4	1,3,5-Trinitrobenzene	2300000	U
62-44-2	Phenacetin	1200000	U
101-55-3	4-Bromophenyl-phenylether	1200000	U
2303-16-4	Diallate	1200000	U
60-51-5	Dimethoate	1200000	U
118-74-1	Hexachlorobenzene	1200000	U
92-67-1	4-Aminobiphenyl	1200000	U
23950-58-5	Pronamide	1200000	U
87-86-5	Pentachlorophenol	2300000	U
82-68-8	Pentachloronitrobenzene	1200000	U
85-01-8	Phenanthrene	14000000	A
120-12-7	Anthracene	3400000	A
84-74-2	Di-n-Butylphthalate	1200000	U
91-80-5	Methapyrilene	2300000	U

(1) - Cannot be separated from Diphenylamine

50-18-0----------Cyclophosphamide	5800000	~~U~~ UJ
206-44-0---------Fluoranthene	5500000	A
92-87-5----------Benzidine	1200000	~~U~~ UJ
129-00-0---------Pyrene	6500000	A
60-11-7----------p-Dimethylaminoazobenzene	1200000	U
510-15-6---------Chlorobenzilate	1200000	U
119-93-7---------3,3'-Dimethylbenzidine	2300000	U
85-68-7----------Butylbenzylphthalate	1200000	U
53-96-3----------2-Acetylaminofluorene	1200000	U
101-14-4---------Methylene-bis(2-Chloroaniline	1200000	U
91-94-1----------3,3'-Dichlorobenzidine	1200000	U
119-90-4---------3,3'-Dimethoxybenzidine	1200000	~~U~~ UJ
56-55-3----------Benzo(a)Anthracene	2900000	A
218-01-9---------Chrysene	2600000	A
117-81-7---------bis(2-Ethylhexyl)Phthalate	1200000	U
117-84-0---------Di-n-Octyl Phthalate	1200000	U
205-99-2---------Benzo(b)Fluoranthene + Benzo(k)Fluoranthene	3100000	~~X~~ A
57-97-6----------7,12-Dimethylbenzanthracene	1200000	U
207-08-9---------~~Benzo(k)Fluoranthene~~	~~3100000~~	~~X~~
50-32-8----------Benzo(a)Pyrene	2700000	A
56-49-5----------3-Methylcholanthrene	1200000	U
224-42-0---------Dibenzo(a,j)acridine	1200000	U
193-39-5---------Indeno(1,2,3-cd)Pyrene	1100000	J
53-70-3----------Dibenz(a,h)Anthracene	1200000	U
191-24-2---------Benzo(g,h,i)Perylene	1500000	A
Aramite	2300000	R

(1) - Cannot be separated from Diphenylamine

RL04F1819

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RLO4F1819DL

Lab Name: COMPUCHEM,RTP Contract: 500077

Lab Code: COMPU Case No.: 24020 SAS No.: _____ SDG No.: 05

Matrix: (soil/water) SOIL Lab Sample ID: 443714

Sample wt/vol: 1.7 (g/mL) G Lab File ID: G3D43714A06

Level: (low/med) MED Date Received: 09/09/91

% Moisture: not dec. _____ dec. _____ Date Extracted: 09/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/27/91

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 400

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	4700000	~~U~~ UJ
110-86-1	Pyridine	4700000	~~U~~ UJ
97-63-2	Ethyl methacrylate	4700000	U
123-63-7	Paraldehyde	4700000	U
109-06-8	2-Picoline	9400000	U
10595-95-6	Nitrosomethylethylamine	4700000	U
66-27-3	Methyl methanesulfonate	4700000	U
55-18-5	N-Nitrosodiethylamine	4700000	U
62-50-0	Ethyl methanesulfonate	4700000	U
108-95-2	Phenol	4700000	U
62-53-3	Aniline	4700000	U
76-01-7	Pentachloroethane	4700000	U
111-44-4	bis(2-Chloroethyl)Ether	9400000	U
95-57-8	2-Chlorophenol	4700000	U
541-73-1	1,3-Dichlorobenzene	4700000	U
100-44-7	Benzyl Chloride	4700000	U
106-46-7	1,4-Dichlorobenzene	4700000	U
100-51-6	Benzyl Alcohol	4700000	U
95-50-1	1,2-Dichlorobenzene	4700000	U
95-48-7	2-Methylphenol	4700000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	4700000	U
108-39-4	3-Methylphenol	4700000	U
106-44-5	4-Methylphenol	4700000	U
930-55-2	N-Nitrosopyrrolidine	4700000	U
59-89-2	N-Nitrosomorpholine	4700000	U
98-86-2	Acetophenone	4700000	U
621-64-7	N-Nitroso-Di-n-Propylamine	4700000	U
636-21-5	o-Toluidine hydrochloride	4700000	U
67-72-1	Hexachloroethane	4700000	U
98-95-3	Nitrobenzene	4700000	~~U~~ UJ
100-75-4	N-Nitrosopiperidine	4700000	U
78-59-1	Isophorone	4700000	U
88-75-5	2-Nitrophenol	4700000	U
105-67-9	2,4-Dimethylphenol	4700000	U

(1) - Cannot be separated from Diphenylamine

LDK 911123

108-70-3	1,3,5-Trichlorobenzene	4700000 U
98-87-3	Benzal Chloride	4700000 U
65-85-0	Benzoic Acid	46000000 U
111-91-1	bis(2-Chloroethoxy)Methane	4700000 U
120-83-2	2,4-Dichlorophenol	4700000 U
120-82-1	1,2,4-Trichlorobenzene	8900000 ~~D~~ A
91-20-3	Naphthalene	47000000 ~~D~~ A
106-47-8	4-Chloroaniline	4700000 U
87-65-0	2,6-Dichlorophenol	9400000 U
95-54-5	o-Phenylenediamine	4700000 ~~U~~ UJ
122-09-8	dimethylphenylethylamine	4700000 ~~U~~ R
1888-71-7	Hexachloropropene	4700000 U
87-68-3	Hexachlorobutadiene	4700000 U
87-61-6	1,2,3-Trichlorobenzene	1400000 ~~DJ~~ J
98-07-7	Benzotrichloride	9400000 U
924-16-3	N-Nitroso-di-n-butylamine	4700000 U
59-50-7	4-Chloro-3-Methylphenol	4700000 U
106-50-3	P-Phenylenediamine	4700000 ~~U~~ R
94-59-7	Safrole	4700000 U
106-50-3	m-Phenylenediamine	4700000 ~~U~~ R
91-57-6	2-Methylnaphthalene	14000000 ~~D~~ A
90-12-0	1-Methylnaphthalene	18000000 ~~D~~ A
95-94-3	1,2,4,5-Tetrachlorobenzene	4700000 U
634-90-2	1,2,3,5-Tetrachlorobenzene	4700000 U
77-47-4	Hexachlorocyclopentadiene	4700000 U
88-06-2	2,4,6-Trichlorophenol	9400000 U
95-95-4	2,4,5-Trichlorophenol	9400000 U
120-58-1	Isosafrole	9400000 U
91-58-7	2-Chloronaphthalene	4700000 U
90-13-1	1-Chloronaphthalene	4700000 U
634-66-2	1,2,3,4-Tetrachlorobenzene	4700000 U
88-74-4	2-Nitroaniline	4700000 U
130-15-4	1,4-Naphthoquinone	9400000 U
100-25-4	1,4-Dinitrobenzene	9400000 U
131-11-3	Dimethyl Phthalate	4700000 U
208-96-8	Acenaphthylene	1300000 ~~DJ~~ J
606-20-2	2,6-Dinitrotoluene	2400000 ~~U~~ UJ

MH 9/11/25

RLD4F18190L

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RLO4F1819DL

Lab Name: COMPUCHEM.RTP Contract: 500077

Lab Code: COMPU Case No.: 24020 SAS No.: _____ SDG No.: 05

Matrix: (soil/water) SOIL Lab Sample ID: 443714

Sample wt/vol: 1.7 (g/mL) G Lab File ID: G3D43714A06

Level: (low/med) MED Date Received: 09/09/91

% Moisture: not dec. _____ dec. _____ Date Extracted: 09/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/27/91

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 400

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	9400000	U
83-32-9	Acenaphthene	1100000	~~BJ~~ J
51-28-5	2,4-Dinitrophenol	19000000	U
100-02-7	4-Nitrophenol	4700000	U
132-64-9	Dibenzofuran	4700000	U
121-14-2	2,4-Dinitrotoluene	4700000	U
608-93-5	Pentachlorobenzene	4700000	U
91-59-8	2-Naphthylamine	9400000	~~U~~ UJ
134-32-7	1-Naphthylamine	9400000	~~U~~ UJ
58-90-2	2,3,4,6-Tetrachlorophenol	9400000	U
84-66-2	Diethylphthalate	4700000	U
297-97-2	Zinophos	4700000	U
7005-72-3	4-Chlorophenyl-phenylether	4700000	U
86-73-7	Fluorene	4800000	~~D~~ A
100-01-6	4-Nitroaniline	9400000	U
99-55-8	5-Nitro-o-toluidine	9400000	U
122-66-7	1,2-Diphenylhydrazine	4700000	U
534-52-1	4,6-Dinitro-2-Methylphenol	14000000	U
86-30-6	N-Nitrosodiphenylamine (1)	4700000	U
122-39-4	Diphenylamine	4700000	U
99-35-4	1,3,5-Trinitrobenzene	9400000	U
62-44-2	Phenacetin	4700000	U
101-55-3	4-Bromophenyl-phenylether	4700000	U
2303-16-4	Diallate	4700000	U
60-51-5	Dimethoate	4700000	U
118-74-1	Hexachlorobenzene	4700000	U
92-67-1	4-Aminobiphenyl	4700000	U
23950-58-5	Pronamide	4700000	U
87-86-5	Pentachlorophenol	9400000	U
82-68-8	Pentachloronitrobenzene	4700000	U
85-01-8	Phenanthrene	17000000	~~D~~ A
120-12-7	Anthracene	3800000	~~BJ~~ J
84-74-2	Di-n-Butylphthalate	4700000	U
91-80-5	Methapyrilene	9400000	U

(1) - Cannot be separated from Diphenylamine

24020 05 COMPLETE DATA PACKAGE

50-18-0	Cyclophosphamide	23000000	U
206-44-0	Fluoranthene	6500000	~~B~~ A
92-87-5	Benzidine	4700000	U
129-00-0	Pyrene	9100000	~~B~~ A
60-11-7	p-Dimethylaminoazobenzene	4700000	U
510-15-6	Chlorobenzilate	4700000	U
119-93-7	3,3'-Dimethylbenzidine	9400000	U
85-68-7	Butylbenzylphthalate	4700000	U
53-96-3	2-Acetylaminofluorene	4700000	U
101-14-4	Methylene-bis(2-Chloroaniline	4700000	U
91-94-1	3,3'-Dichlorobenzidine	4700000	U
119-90-4	3,3'-Dimethoxybenzidine	4700000	U
56-55-3	Benzo(a)Anthracene	3400000	~~BJ~~ J
218-01-9	Chrysene	3100000	~~BJ~~ J
117-81-7	bis(2-Ethylhexyl)Phthalate	4700000	U
117-84-0	Di-n-Octyl Phthalate	4700000	U
205-99-2	Benzo(b)Fluoranthene + Benzo(k)Fluoranthene	3600000	~~BJK~~ J
57-97-6	7,12-Dimethylbenzanthracene	4700000	U
207-08-9	~~Benzo(k)Fluoranthene~~	~~3600000~~	~~BJK~~
50-32-8	Benzo(a)Pyrene	2900000	~~BJ~~ J
56-49-5	3-Methylcholanthrene	4700000	U
224-42-0	Dibenzo(a,j)acridine	4700000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1100000	~~BJ~~ J
53-70-3	Dibenz(a,h)Anthracene	4700000	U
191-24-2	Benzo(g,h,i)Perylene	1500000	~~BJ~~ J
Ammis		9400000	~~U~~ R

(1) - Cannot be separated from Diphenylamine

RL04F18190L

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RL21FDNAP

Lab Name: COMPUCHEM,RTP Contract: 500077

Lab Code: COMPU Case No.: 24020 SAS No.: _____ SDG No.: 1

Matrix: (soil/water) SOIL Lab Sample ID: 443719

Sample wt/vol: 4.0 (g/mL) G Lab File ID: C2R43719B03

Level: (low/med) MED Date Received: 09/09/91

% Moisture: not dec. _____ Date Analyzed: 09/21/91

Column: (pack/cap) CAP Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6000	U
74-83-9	Bromomethane	3100	U
75-01-4	Vinyl Chloride	6000	U
75-00-3	Chloroethane	6000	U
75-09-2	Methylene Chloride	3100 ~~1300~~	~~BJ~~ U
67-64-1	Acetone	6000 ~~3900~~	~~BJ~~ U
75-15-0	Carbon Disulfide	3100	U
75-35-4	1,1-Dichloroethene	3100	U
75-34-3	1,1-Dichloroethane	3100	U
540-59-0	1,2-Dichloroethene (total)	3100	U
67-66-3	Chloroform	3100	U
107-06-2	1,2-Dichloroethane	3100	U
78-93-3	2-Butanone	6000	U
71-55-6	1,1,1-Trichloroethane	3100	U
56-23-5	Carbon Tetrachloride	3100	U
108-05-4	Vinyl Acetate	6000	U
75-27-4	Bromodichloromethane	3100	U
78-87-5	1,2-Dichloropropane	3100	U
10061-01-5	cis-1,3-Dichloropropene	3100	U
79-01-6	Trichloroethene	3100	U
124-48-1	Dibromochloromethane	3100	U
79-00-5	1,1,2-Trichloroethane	3100	U
71-43-2	Benzene	1000	~~BJ~~ J
10061-02-6	Trans-1,3-Dichloropropene	3100	U
110-75-8	2-Chloroethylvinylether	6000	U
75-25-2	Bromoform	6000	U
108-10-1	4-Methyl-2-Pentanone	9500	U
591-78-6	2-Hexanone	9500	U
127-18-4	Tetrachloroethene	3100	U
79-34-5	1,1,2,2-Tetrachloroethane	6000	U
108-88-3	Toluene	4600	J
108-90-7	Chlorobenzene	49000	J
100-41-4	Ethylbenzene	6200	J
100-42-5	Styrene	3100	U
1330-20-7	Total Xylenes	120000	J
74-88-4	Iodomethane	6000	U

UA 9/11/23

107-02-8	Acrolein	55000	U
107-13-1	Acrylonitrile	75000	U
75-69-4	Trichlorofluoromethane	3100	U
107-05-1	3-Chloropropene	9500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluo	6000	U
354-58-5	1,1,1-Trichloro-2,2,2-trifluo	6000	U
74-95-3	Dibromomethane	6000	U
4170-30-3	Crotonaldehyde	60000	~~U~~ R
106-93-4	1,2-Dibromoethane	3100	U
630-20-6	1,1,1,2-Tetrachloroethane	3100	U
764-71-0	cis-1,4-Dichloro-2-butene	9500	U
96-18-4	1,2,3-Trichloropropane	9500	U
764-41-0	trans-1,4-Dichloro-2-butene	9500	U
97-63-2	Ethylmethacrylate	6000	U
96-12-8	1,2-Dibromo-3-chloropropane	6000	~~U~~ R

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RL12FDNAP

Lab Name: COMPUCHEM,RTP Contract: 500077

Lab Code: COMPU Case No.: 24020 SAS No.: _____ SDG No.: 1

Matrix: (soil/water) SOIL Lab Sample ID: 443716

Sample wt/vol: 4.0 (g/mL) G Lab File ID: GR043716A03

Level: (low/med) MED Date Received: 09/09/91

% Moisture: not dec. _____ Date Analyzed: 09/22/91

Column: (pack/cap) CAP Dilution Factor: 6.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	8000	U
74-83-9	Bromomethane	4100	U
75-01-4	Vinyl Chloride	8000	U
75-00-3	Chloroethane	8000	U
75-09-2	Methylene Chloride	4100 ~~840~~	~~BJ~~ U
67-64-1	Acetone	8000	~~U~~ UJ
75-15-0	Carbon Disulfide	4100	U
75-35-4	1,1-Dichloroethene	4100	U
75-34-3	1,1-Dichloroethane	4100	U
540-59-0	1,2-Dichloroethene (total)	4100	U
67-66-3	Chloroform	3400	J
107-06-2	1,2-Dichloroethane	4100	U
78-93-3	2-Butanone	8000	U
71-55-6	1,1,1-Trichloroethane	4100	U
56-23-5	Carbon Tetrachloride	130000	J
108-05-4	Vinyl Acetate	8000	U
75-27-4	Bromodichloromethane	4100	U
78-87-5	1,2-Dichloropropane	4100	U
10061-01-5	cis-1,3-Dichloropropene	4100	U
79-01-6	Trichloroethene	89000	J
124-48-1	Dibromochloromethane	4100	U
79-00-5	1,1,2-Trichloroethane	4100	U
71-43-2	Benzene	870	~~BJ~~ J
10061-02-6	Trans-1,3-Dichloropropene	4100	U
110-75-8	2-Chloroethylvinylether	8000	U
75-25-2	Bromoform	8000	U
108-10-1	4-Methyl-2-Pentanone	13000	U
591-78-6	2-Hexanone	13000	U
127-18-4	Tetrachloroethene	8700	J
79-34-5	1,1,2,2-Tetrachloroethane	8000	U
108-88-3	Toluene	1100	J
108-90-7	Chlorobenzene	4100	U
100-41-4	Ethylbenzene	3800	J
100-42-5	Styrene	4100	U
1330-20-7	Total Xylenes	92000	J
74-88-4	Iodomethane	8000	U

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107-02-8--------Acrolein	73000	U
107-13-1--------Acrylonitrile	100000	U
75-69-4---------Trichlorofluoromethane	4100	U
107-05-1--------3-Chloropropene	13000	U
76-13-1---------1,1,2-Trichloro-1,2,2-trifluo	8000	U
354-58-5--------1,1,1-Trichloro-2,2,2-trifluo	8000	U
74-95-3---------Dibromomethane	8000	U
4170-30-3-------Crotonaldehyde	80000	~~U~~ R
106-93-4--------1,2-Dibromoethane	4100	U
630-20-6--------1,1,1,2-Tetrachloroethane	4100	U
764-71-0--------cis-1,4-Dichloro-2-butene	13000	U
96-18-4---------1,2,3-Trichloropropane	13000	U
764-41-0--------trans-1,4-Dichloro-2-butene	13000	U
97-63-2---------Ethylmethacrylate	8000	U
96-12-8---------1,2-Dibromo-3-chloropropane	8000	~~U~~ UJ

LAW 4/18/23

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RL12FDNAP

Name: COMPUCHEM,RTP Contract: 500077

Lab Code: COMPU Case No.: 24020 SAS No.: _____ SDG No.: 05

Matrix: (soil/water) SOIL Lab Sample ID: 443717

Sample wt/vol: 1.9 (g/mL) G Lab File ID: G3D43717C20

Level: (low/med) MED Date Received: 09/09/91

% Moisture: not dec. _____ dec. _____ Date Extracted: 09/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/30/91

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 75

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	780000	~~U~~ UJ
110-86-1	Pyridine	780000	U
97-63-2	Ethyl methacrylate	780000	U
123-63-7	Paraldehyde	780000	U
109-06-8	2-Picoline	1600000	U
10595-95-6	Nitrosomethylethylamine	780000	U
66-27-3	Methyl methanesulfonate	780000	U
55-18-5	N-Nitrosodiethylamine	780000	U
62-50-0	Ethyl methanesulfonate	780000	U
108-95-2	Phenol	780000	U
62-53-3	Aniline	780000	U
76-01-7	Pentachloroethane	780000	U
111-44-4	bis(2-Chloroethyl)Ether	1600000	U
95-57-8	2-Chlorophenol	780000	U
541-73-1	1,3-Dichlorobenzene	780000	U
100-44-7	Benzyl Chloride	780000	U
106-46-7	1,4-Dichlorobenzene	100000	J
100-51-6	Benzyl Alcohol	780000	U
95-50-1	1,2-Dichlorobenzene	780000	U
95-48-7	2-Methylphenol	780000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	780000	U
108-39-4	3-Methylphenol	780000	U
106-44-5	4-Methylphenol	780000	U
930-55-2	N-Nitrosopyrrolidine	780000	U
59-89-2	N-Nitrosomorpholine	780000	U
98-86-2	Acetophenone	780000	U
621-64-7	N-Nitroso-Di-n-Propylamine	780000	U
636-21-5	o-Toluidine hydrochloride	780000	U
67-72-1	Hexachloroethane	780000	U
98-95-3	Nitrobenzene	780000	U
100-75-4	N-Nitrosopiperidine	780000	U
78-59-1	Isophorone	780000	U
88-75-5	2-Nitrophenol	780000	U
105-67-9	2,4-Dimethylphenol	780000	U

108-70-3---------1,3,5-Trichlorobenzene	780000	U
98-87-3----------Benzal Chloride	780000	U
65-85-0----------Benzoic Acid	7700000	~~U~~ UJ
111-91-1---------bis(2-Chloroethoxy)Methane	780000	U
120-83-2---------2,4-Dichlorophenol	780000	U
120-82-1---------1,2,4-Trichlorobenzene	7200000	A
91-20-3----------Naphthalene	780000	U
106-47-8---------4-Chloroaniline	780000	U
87-65-0----------2,6-Dichlorophenol	1600000	U
95-54-5----------o-Phenylenediamine	780000	~~U~~ UJ
122-09-8---------dimethylphenylethylamine	780000	~~U~~ R
1888-71-7--------Hexachloropropene	780000	U
87-68-3----------Hexachlorobutadiene	780000	U
87-61-6----------1,2,3-Trichlorobenzene	1200000	A
98-07-7----------Benzotrichloride	1600000	U
924-16-3---------N-Nitroso-di-n-butylamine	780000	U
59-50-7----------4-Chloro-3-Methylphenol	780000	U
106-50-3---------P-Phenylenediamine	780000	~~U~~ R
94-59-7----------Safrole	780000	U
106-50-3---------m-Phenylenediamine	780000	~~U~~ R
91-57-6----------2-Methylnaphthalene	780000	U
90-12-0----------1-Methylnaphthalene	780000	U
95-94-3----------1,2,4,5-Tetrachlorobenzene	~~total~~ 200000	~~JX~~ J
634-90-2---------1,2,3,5-Tetrachlorobenzene	~~200000~~	~~JX~~
77-47-4----------Hexachlorocyclopentadiene	780000	~~U~~ U
88-06-2----------2,4,6-Trichlorophenol	1600000	U
95-95-4----------2,4,5-Trichlorophenol	1600000	U
120-58-1---------Isosafrole	1600000	U
91-58-7----------2-Chloronaphthalene	780000	U
90-13-1----------1-Chloronaphthalene	780000	U
634-66-2---------1,2,3,4-Tetrachlorobenzene	190000	J
88-74-4----------2-Nitroaniline	780000	U
130-15-4---------1,4-Naphthoquinone	1600000	U
100-25-4---------1,4-Dinitrobenzene	1600000	U
131-11-3---------Dimethyl Phthalate	780000	U
208-96-8---------Acenaphthylene	780000	~~U~~ UJ
606-20-2---------2,6-Dinitrotoluene	400000	~~U~~ UJ

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RL12 FDNAP

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RL12FDNAP

L Name: COMPUCHEM,RTP Contract: 500077

Lab Code: COMPU Case No.: 24020 SAS No.: _____ SDG No.: 05

Matrix: (soil/water) SOIL Lab Sample ID: 443717

Sample wt/vol: 1.9 (g/mL) G Lab File ID: G3D43717C20

Level: (low/med) MED Date Received: 09/09/91

% Moisture: not dec. _____ dec. _____ Date Extracted: 09/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/30/91

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 75

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1600000	U
83-32-9	Acenaphthene	780000	U
51-28-5	2,4-Dinitrophenol	3100000	U
100-02-7	4-Nitrophenol	780000	U
132-64-9	Dibenzofuran	780000	U
121-14-2	2,4-Dinitrotoluene	780000	U
608-93-5	Pentachlorobenzene	780000	U
91-59-8	2-Naphthylamine	1600000	U
134-32-7	1-Naphthylamine	1600000	U
58-90-2	2,3,4,6-Tetrachlorophenol	1600000	U
84-66-2	Diethylphthalate	780000	U
297-97-2	Zinophos	780000	U
7005-72-3	4-Chlorophenyl-phenylether	780000	U
86-73-7	Fluorene	780000	U
100-01-6	4-Nitroaniline	1600000	U
99-55-8	5-Nitro-o-toluidine	1600000	U
122-66-7	1,2-Diphenylhydrazine	780000	U
534-52-1	4,6-Dinitro-2-Methylphenol	2400000	U
86-30-6	N-Nitrosodiphenylamine (1)	780000	U
122-39-4	Diphenylamine	780000	U
99-35-4	1,3,5-Trinitrobenzene	1600000	U
62-44-2	Phenacetin	780000	U
101-55-3	4-Bromophenyl-phenylether	780000	U
2303-16-4	Diallate	780000	U
60-51-5	Dimethoate	780000	U
118-74-1	Hexachlorobenzene	780000	U
92-67-1	4-Aminobiphenyl	780000	U
23950-58-5	Pronamide	780000	U
87-86-5	Pentachlorophenol	1600000	U
82-68-8	Pentachloronitrobenzene	780000	U
85-01-8	Phenanthrene	780000	U
120-12-7	Anthracene	780000	U
84-74-2	Di-n-Butylphthalate	780000	U
91-80-5	Methapyrilene	1600000	U

(1) - Cannot be separated from Diphenylamine

50-18-0----------Cyclophosphamide	3900000	U
206-44-0---------Fluoranthene	780000	U
92-87-5----------Benzidine	780000	U UJ
129-00-0---------Pyrene	780000	U
60-11-7----------p-Dimethylaminoazobenzene	780000	U
510-15-6---------Chlorobenzilate	780000	U
119-93-7---------3,3'-Dimethylbenzidine	1600000	U
85-68-7----------Butylbenzylphthalate	780000	U
53-96-3----------2-Acetylaminofluorene	780000	U
101-14-4---------Methylene-bis(2-Chloroaniline	780000	U
91-94-1----------3,3'-Dichlorobenzidine	780000	U
119-90-4---------3,3'-Dimethoxybenzidine	780000	U
56-55-3----------Benzo(a)Anthracene	780000	U
218-01-9---------Chrysene	780000	U
117-81-7---------bis(2-Ethylhexyl)Phthalate	780000	U
117-84-0---------Di-n-Octyl Phthalate	780000	U
205-99-2---------Benzo(b)Fluoranthene	780000	U
57-97-6----------7,12-Dimethylbenzanthracene	780000	U
207-08-9---------Benzo(k)Fluoranthene	780000	U
50-32-8----------Benzo(a)Pyrene	780000	U
56-49-5----------3-Methylcholanthrene	780000	U
224-42-0---------Dibenzo(a,j)acridine	780000	U
193-39-5---------Indeno(1,2,3-cd)Pyrene	780000	U
53-70-3----------Dibenz(a,h)Anthracene	780000	U
191-24-2---------Benzo(g,h,i)Perylene	780000	U
Aramite	1600000	U R

(1) - Cannot be separated from Diphenylamine

Date 911123

RL12FONAP

COMPOUND LIST -- PCBs

SAMPLE IDENTIFIER: RL12FDNAP
COMPUCHEM® SAMPLE NUMBER: 443718

		CONCENTRATION (mg/kg)	DETECTION† LIMIT (mg/kg)
1P.	PCB-1242	BDL	125000 U
2P.	PCB-1254	660000 A	125000
3P.	PCB-1221	BDL	125000 U
4P.	PCB-1232	BDL	125000 U
5P.	PCB-1248	BDL	125000 U
6P.	PCB-1260	BDL	125000 U
7P.	PCB-1016	BDL	125000 U

Surrogate Recovery - Introduced at the beginning of the extraction, the surrogate standard is a select compound that analytically mimics the response of certain analytes. A known concentration of this surrogate is added to the sample and a percent recovery is calculated. This recovery acts as a barometer of extraction efficiency and analytical response for the individual sample.

	% Recovery	Control Range %
Dibutylchlorendate	**	(20-150)*

BDL = BELOW DETECTION LIMIT

*Advisory surrogate; with the exception of dilutions recovery below 10% requires action step (re-extraction and re-analysis). See Quality Assurance Notice.

†The sample analyzed using a 5000 :1 dilution, thus the higher than normal detection limits.

**No surrogate recovery data available due to a dilution and/or matrix interference.

4/11/23

COMPOUND LIST -- PCBs

SAMPLE IDENTIFIER: RL21FDNAP
COMPUCHEM® SAMPLE NUMBER: 443721

			CONCENTRATION (mg/kg)	DETECTION† LIMIT (mg/kg)
1P.	PCB-1242		BDL	5000 U
2P.	PCB-1254	98000 A		5000
3P.	PCB-1221		BDL	5000 U
4P.	PCB-1232		BDL	5000 U
5P.	PCB-1248		BDL	5000 U
6P.	PCB-1260		BDL	5000 U
7P.	PCB-1016		BDL	5000 U

Surrogate Recovery - Introduced at the beginning of the extraction, the surrogate standard is a select compound that analytically mimics the response of certain analytes. A known concentration of this surrogate is added to the sample and a percent recovery is calculated. This recovery acts as a barometer of extraction efficiency and analytical response for the individual sample.

	% Recovery	Control Range %
Dibutylchlorendate	**	(20-150)*

BDL = BELOW DETECTION LIMIT

*Advisory surrogate; with the exception of dilutions recovery below 10% requires action step (re-extraction and re-analysis). See Quality Assurance Notice.

†The sample analyzed using a 200 :1 dilution, thus the higher than normal detection limits.

**No surrogate recovery data available due to a dilution and/or matrix interference.

4/11/13

COMPOUND LIST -- PCBs

SAMPLE IDENTIFIER: RL04F1819
COMPUCHEM® SAMPLE NUMBER: 443715

			CONCENTRATION (mg/kg)	DETECTION† LIMIT (mg/kg)
1P.	PCB-1242		BDL	125000 U
2P.	PCB-1254	450000 A		125000
3P.	PCB-1221		BDL	125000 U
4P.	PCB-1232		BDL	125000 U
5P.	PCB-1248		BDL	125000 U
6P.	PCB-1260		BDL	125000 U
7P.	PCB-1016		BDL	125000 U

Surrogate Recovery - Introduced at the beginning of the extraction, the surrogate standard is a select compound that analytically mimics the response of certain analytes. A known concentration of this surrogate is added to the sample and a percent recovery is calculated. This recovery acts as a barometer of extraction efficiency and analytical response for the individual sample.

	% Recovery	Control Range %
Dibutylchlorendate	**	(20-150)*

BDL = BELOW DETECTION LIMIT

*Advisory surrogate; with the exception of dilutions recovery below 10% requires action step (re-extraction and re-analysis). See Quality Assurance Notice.

†The sample analyzed using a 5000 :1 dilution, thus the higher than normal detection limits.

**No surrogate recovery data available due to a dilution and/or matrix interference.

LMB 9/11/23

COMPOUND LIST -- PCBs

SAMPLE IDENTIFIER: RLR1F2121
COMPUCHEM® SAMPLE NUMBER: 443709

			CONCENTRATION (mg/kg)	DETECTION† LIMIT (mg/kg)
1P.	PCB-1242		BDL	125000 U
2P.	PCB-1254	490000 A		125000
3P.	PCB-1221		BDL	125000 U
4P.	PCB-1232		BDL	125000 U
5P.	PCB-1248		BDL	125000 U
6P.	PCB-1260		BDL	125000 U
7P.	PCB-1016		BDL	125000 U

Surrogate Recovery - Introduced at the beginning of the extraction, the surrogate standard is a select compound that analytically mimics the response of certain analytes. A known concentration of this surrogate is added to the sample and a percent recovery is calculated. This recovery acts as a barometer of extraction efficiency and analytical response for the individual sample.

	% Recovery	Control Range %
Dibutylchlorendate	**	(20-150)*

BDL = BELOW DETECTION LIMIT

*Advisory surrogate; with the exception of dilutions recovery below 10% requires action step (re-extraction and re-analysis). See Quality Assurance Notice.

†The sample analyzed using a 5000 :1 dilution, thus the higher than normal detection limits.

**No surrogate recovery data available due to a dilution and/or matrix interference.