EPA Region 5 Records Ctr.
243432

Telephone (708) 544-3260
FAX (708) 544-8587
#1-800-783-LABS

SUBURBAN LABORATORIES, Inc.
"Analytical Testing"
Environmental, Microbiological, Nutritional
4140 Litt Drive ● Hillside, Illinois 60162 - 1183

RECEIVED
DEC 20 1989
TAT REG V SM

December 20, 1989

Weston Sper
River Center
111 North Canal Street, 8th Floor
Suite #855
Chicago, Illinois 60606

Attention: Ms. Sally Matz

Re: Project #90WT04

Sample Received: 12/7/89

Source: S/L #9-13489 - 5 gal. pail, S-71, Tag #5-093458, 1245 12/5/89

✓pH (dilution 1:3)		5.70
Cyanide-Total	(ppm)	0.715
Cyanide-Reactive		-
Sulfide-Total	(ppm)	0.579
Sulfide-Reactive		-

✓ FLASH POINT 65°F

ANALYSIS CERTIFIED BY: _____ Director (HRT/ck)

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Environmental, Microbiological, Nutritional
4140 Litt Drive • Hillside, Illinois 60162 - 1183

December 20, 1989

Weston Sper
River Center
111 North Canal Street, 8th Floor
Suite #855
Chicago, Illinois 60606

Attention: Ms. Sally Matz

Re: Project #90WT04

Sample Received: 12/7/89

Source: S/L #9-13490 - Lagoon Area, S-72, Tag #5-093460, 5-093461, 5-093462, 1210, 12/5/89

	Raw (ppm)	E. P. Toxicity (mg/l)
Cyanide-Total	427	-
Arsenic	-	0.14
Barium	-	< 0.10
Cadmium	145	< 0.10
Chrom-Total	1579	< 0.10
Lead	1486	< 0.10
Nickel	540	-
Mercury	-	< 0.0001
Selenium	-	< 0.10
Silver	-	< 0.10
Zinc	5559	-

ANALYSIS CERTIFIED BY: _____ Director (HRT/ck)

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Environmental, Microbiological, Nutritional
4140 Litt Drive ● Hillside, Illinois 60162 - 1183

December 20, 1989

Weston Sper
River Center
111 North Canal Street, 8th Floor
Suite #855
Chicago, Illinois 60606

Attention: Ms. Sally Matz

Re: Project #90WT04

Sample Received: 12/7/89

Source: S/L #9-13491 - North of Building, S-73, Tag #5-093463, 5-093464, 5-093465, 1230, 12/5/89

	Raw (ppm)	E. P. Toxicity (mg/l)
Cyanide-Total	1.58	-
Arsenic	-	0.12
Barium	-	< 0.10
Cadmium	36.2	< 0.10
Chrom-Total	538	< 0.10
Lead	1233	< 0.10
Nickel	540	-
Mercury	-	0.0002
Selenium	-	< 0.10
Silver	-	< 0.10
Zinc	6009	-

ANALYSIS CERTIFIED BY: _____ Director (HRT/ck)

Members of American Society of Mass Spectrometry • American Chemical Society • American Society for Microbiology
Water Pollution Control Federation • Institute of Food Technology • Certifications: • Ill. Dept. of Public Health #17135

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"Analytical Testing"
Environmental, Microbiological, Nutritional
4140 Litt Drive ● Hillside, Illinois 60162 - 1183

December 20, 1989

Weston Sper
River Center
111 North Canal Street, 8th Floor
Suite #855
Chicago, Illinois 60606

Attention: Ms. Sally Matz

Re: Project #90WT04

Sample Received: 12/7/89

Source: S/L #9-13492 - Blackhawk Park, S-74, Tag #5-093466, 5-093467, 5-093468
1330, 12/5/89

	Raw (ppm)	E. P. Toxicity (mg/l)
Cyanide-Total	0.715	-
Arsenic	-	< 0.10
Barium	-	< 0.10
Cadmium	1.68	< 0.10
Chrom-Total	4.58	< 0.10
Lead	26.7	< 0.10
Nickel	1.76	-
Mercury	-	< 0.0001
Selenium	-	< 0.10
Silver	-	< 0.10
Zinc	33.5	-

ANALYSIS CERTIFIED BY: _____ Director (HRT/ck)

Members of American Society of Mass Spectrometry • American Chemical Society • American Society for Microbiology
Water Pollution Control Federation • Institute of Food Technology • Certifications • Ill. Dept. of Public Health #17135

SUBURBAN LABORATORIES, INC.
ANALYSIS FOR ORGANIC CHEMICAL COMPOUNDS
BY
GAS CHROMATOGRAPHY / MASS SPECTROMETRY
FINAL REPORT

S/L #.....9-13490 CLIENT: WESTON

GC/MS FILE NO.....>9N550::EB SAMPLE:" S-72 12:10 12/5/89 "

Final REPORT BY: JB

PH = 5.0

DATE RECEIVED: 12/07/89 DATE EXTRACTED: 12/09/89

Note: Upon visual review of the Total Ion Chromatogram, unidentified peaks were observed which are outside these parameters that are listed below.

****

>>>>>>>>>>>>>>>>> BASE / NEUTRAL EXTRACTABLES METHOD 8270 <<<<<<<<<<<<<<<<

****

	COMPOUND	MDL ug/kg	CAS NUMBER	PQL	SAMPLE CONC. ug/kg (wet weight)
1.	Acenaphthene	1.00	83-32-9	10.0	BDL
2.	Acenaphthylene	1.00	208-96-8	10.0	BDL
3.	Anthracene	1.00	120-12-7	10.0	BDL
4.	Benzo(a)anthracene	1.00	56-55-3	10.0	BDL
5.	Benzo(b)fluoranthene	1.00	205-99-2	10.0	BDL
6.	Benzo(k)fluoranthene	1.00	207-08-9	10.0	BDL
7.	Benzo(a)pyrene	1.00	50-32-8	10.0	BDL
8.	Benzo(g,h,i)perylene	1.00	191-24-2	10.0	BDL
9.	Benzyl butyl phthalate	1.00	85-68-7	1.00	18100.0
10.	Bis(2-chloroethyl)ether	1.00	111-44-4	10.0	BDL
11.	Bis(2-chloroethoxy)methane	1.00	111-91-1	10.0	BDL
12.	Bis(2-ethylhexyl)phthalate	1.00	117-81-7	10.0	178200.0
13.	Bis(2-chloroisopropyl)ether	1.00	108-60-1	10.0	BDL
14.	4-Bromophenyl phenyl ether	1.00	101-55-3	10.0	BDL
15.	2-Chloronaphthalene	1.00	91-58-7	10.0	BDL
16.	4-Chlorophenyl phenyl ether	1.00	7005-72-3	10.0	BDL
17.	Chrysene	1.00	218-01-9	10.0	BDL
18.	Dibenzo(a,h)anthracene	1.00	53-70-3	10.0	BDL
19.	Dimethyl phthalate	1.00	131-11-3	10.0	BDL
20.	Di-n-butylphthalate	1.00	84-74-2	10.0	7800.0
21.	1,3-Dichlorobenzene	1.00	541-73-1	10.0	BDL
22.	1,2-Dichlorobenzene	1.00	95-50-1	10.0	BDL
23.	1,4-Dichlorobenzene	1.00	106-46-7	10.0	BDL
24.	3,3-Dichlorobenzidine	*	91-94-1	*	*
25.	Diethyl phthalate	1.00	84-66-2	10.0	BDL

26.	2,4-Dinitrotoluene	1.00	121-14-2	10.0	BDL
27.	2,6-Dinitrotoluene	1.00	606-20-2	10.0	BDL
28.	Di-n-octyl phthalate	1.00	117-84-0	10.0	34800.0
29.	Fluoranthene	1.00	206-44-0	10.0	BDL
30.	Fluorene	1.00	86-73-7	10.0	BDL
31.	Hexachlorobenzene	1.00	118-74-1	10.0	BDL
32.	Hexachlorobutadiene	1.00	87-68-3	10.0	BDL
33.	Hexachloroethane	1.00	67-72-1	10.0	BDL
34.	Indeno(1,2,3-cd)pyrene	1.00	193-39-5	10.0	BDL
35.	Isophorone	1.00	78-59-1	10.0	BDL
36.	Naphthalene	1.00	91-20-3	10.0	6100.0
37.	Nitrobenzene	1.00	98-95-3	10.0	BDL
38.	N-Nitrosodi-n-propylamine	*	621-64-7	10.0	BDL
39.	Phenanthrene	1.00	85-01-8	10.0	BDL
40.	Pyrene	1.00	129-00-0	10.0	BDL
41.	1,2,4-Trichlorobenzene	1.00	120-82-1	10.0	BDL
42.	+d10-Anthracene	1.00			190.00
43.	++d8-Napthalene Surrogate Standard				134%**
44.	2-Fluorobiphenyl (temp.surr.)	1.00	321-60-8		NI
45.	d5-Nitrobenzene (temp.surr.)	1.00	4165-60-0		NI
46.	d14-4-Terphenyl (temp.surr.)	1.00			NI

ADDITIONAL EXTRACTABLE PARAMETERS

47.	Benzidine	*	92-87-5	*	*
48.	1,2-Diphenylhydrazine	30.00	122-66-7	30.0	BDL
49.	Hexachlorocyclopentadiene	*	77-47-4	*	*
50.	Toxaphene	*	8001-35-2	*	*
51.	N-Nitrosodimethylamine	*	62-75-9	*	*
52.	N-Nitrosodiphenylamine	*	86-30-6	*	BDL

+.....INTERNAL STANDARD

BDL....BELOW DETECTION LIMIT MDL....METHOD DETECTION LIMIT

PQL....PRACTICAL QUANTITATION LIMIT
THE LOWEST LEVEL THAT CAN BE RELIABLY ACHIEVED WITHIN THE SPECIFIED LIMITS OF PRECISION AND ACCURACY DURING ROUTINE LABORATORY OPERATING CONDITIONS. THE PQL's LISTED HEREIN ARE PROVIDED FOR GUIDANCE AND MAY NOT ALWAYS BE ACHIEVABLE. PQL's ARE HIGHLY MATRIX DEPENDENT. DETERMINATION OF PQL's FOR VARIOUS MATRICES IS THE PQL FOR GROUND WATER x FACTOR: MEDIUM LEVEL SOIL AND SLUDGES x7.5; NON WATER MISCIBLE WASTE x75.

*.....DUE TO COMPOUND INSTABILITY UNDER REGULAR GAS CHROMATOGRAPHY CONDITIONS THESE COMPOUNDS ARE SCREENED FOR IN THIS ANALYSIS.

++.....SURROGATE STANDARD % RECOVERY MI.....MATRIX INTERFERENCE

NI.....SURROGATE STANDARD NOT INJECTED

**.....SEVERE MATRIX INTERFERENCE

SUBURBAN LABORATORIES, INC.
4140 LITT DRIVE
HILLSIDE, ILLINOIS 60162

ANALYSIS OF ORGANIC CHEMICAL COMPOUNDS BY
GAS CHROMATOGRAPHY / ELECTRON CAPTURE DETECTOR
FINAL REPORT

S/L FILE NUMBER.....9-13490 CLIENT: WESTON

SIGNAL FILE: A:Q9/E920C.BNC SAMPLE: " S-22 12:10 12/5/89 "

FINAL REPORT BY: JB

pH= 5.0

DATE RECEIVED: 12/07/89 DATE EXTRACTED: 12/09/89

Note: Upon visual review of the Total Ion Chromatogram, unidentified peaks were observed outside of those parameters which are listed below.

****

>>>>>>>>>>>>>>>>>POLYCHLORINATED BIPHENYLS (PCB'S) METHOD 8080<<<<<<<<<<<<<<<<<

****

	COMPOUND	MDL ug/kg	CAS NUMBER	PQL	SAMPLE CONC. ug/kg (wet weight)
1.	PCB-1016	<1.00	12674-11-1	10.00	BDL
2.	PCB-1221	<1.00	11104-28-2	10.00	BDL
3.	PCB-1232	<1.00	11141-16-5	10.00	BDL
4.	PCB-1242	<1.00	53469-21-9	10.00	BDL
5.	PCB-1248	<1.00	12672-29-6	10.00	BDL
6.	PCB-1254	<1.00	11097-69-1	10.00	BDL
7.	PCB-1260	<1.00	11096-82-5	10.00	BDL

+.....INTERNAL STANDARD

MDL.....METHOD DETECTION LIMIT
THE MINIMUM CONCENTRATION OF A SUBSTANCE THAT CAN BE MEASURED AND REPORTED WITH 99% CONFIDENCE THAT VALUE IS ABOVE ZERO. (Ref: SW-846 3rd. Ed.)

BDL.....BELOW DETECTION LIMIT
DETECTION LIMITS LISTED HEREIN ARE PROVIDED FOR GUIDANCE, AND MAY NOT ALWAYS BE ACHIEVABLE.

SUBURBAN LABORATORIES INC.
4140 LITT DRIVE
HILLSIDE ILLINOIS 60162

ANALYSIS OF ORGANIC CHEMICAL COMPOUNDS BY
GAS CHROMATOGRAPHY / MASS SPECTROMETRY
FINAL REPORT

L #.....9-13490 CLIENT: WESTON

/MS FILE #.....19N5F0::F8 SAMPLE:" S-22 12:10 12/5/89 "

NAL REPORT BY: JR

E RECEIVED: 12/02/89 DATE EXTRACTED: 12/09/89

ote: Upon visual review of the Total Ion Chromatogram, unidentified peaks
are observed which are outside these parameters that are listed below.

****

>>>>>>>>>>>>>>>>>>>>>> ACID EXTRACTABLES METHOD 8270 <<<<<<<<<<<<<<<<<<<<<<

****

	COMPOUND	MDL ug/kg	CAS NUMBER	PQL	SAMPLE CONC. ug/kg (wet weight)
1.	4-Chloro-3-methylphenol	5.00	59-50-7	20.00	BDL
2.	2-Chlorophenol	1.00	95-57-8	10.00	BDL
3.	2,4-Dichlorophenol	1.00	120-83-2	10.00	BDL
4.	2,4-Dimethylphenol	2.00	105-67-9	10.00	BDL
5.	2,4-Dinitrophenol	30.00	51-28-5	50.00	BDL
6.	2-Methyl-4,6-dinitrophenol	20.00	534-52-1	50.00	BDL
7.	2-Nitrophenol	3.00	88-75-5	10.00	BDL
8.	4-Nitrophenol	2.00	100-02-7	50.00	BDL
9.	Pentachlorophenol	50.00	87-86-5	50.00	BDL
10.	Phenol	1.00	108-95-2	10.00	BDL
11.	2,4,6-Trichlorophenol	2.00	88-06-2	10.00	BDL
12.	+2-Fluorophenol		367-12-4		152.00
13.	++d6-Phenol (s.std)	1.00	13127-88-3		36%**

SUBURBAN LABORATORIES INC.
4140 LITT DRIVE
HILLSIDE ILLINOIS 60162

ANALYSIS OF ORGANIC CHEMICAL COMPOUNDS BY
GAS CHROMATOGRAPHY / MASS SPECTROMETRY
FINAL REPORT

S/L #.....9-13490 CLIENT: WESTON

GC/MS FILE #.....>9N550::E8 SAMPLE:" S-72 12:10 12/5/89 "

FINAL REPORT BY: JB

DATE RECIEVED: 12/07/89 DATE EXTRACTED: 12/09/89

Note: Upon visual review of the Total Ion Chromatogram, unidentified peaks were observed which are outside these parameters that are listed below.

****

>>>>>>>>>>>>>>>>>>>>>>> ACID EXTRACTABLES METHOD 8270 <<<<<<<<<<<<<<<<<<<<

****

	COMPOUND	MDL ug/kg	CAS NUMBER	PQL	SAMPLE CONC ug/kg (wet weight
1.	4-Chloro-3-methylphenol	3.00	59-50-7	20.00	BDL
2.	2-Chlorophenol	1.00	95-57-8	10.00	BDL
3.	2,4-Dichlorophenol	1.00	120-83-2	10.00	BDL
4.	2,4-Dimethylphenol	2.00	105-67-9	10.00	BDL
5.	2,4-Dinitrophenol	30.00	51-28-5	50.00	BDL
6.	2-Methyl-4,6-dinitrophenol	20.00	534-52-1	50.00	BDL
7.	2-Nitrophenol	3.00	88-75-5	10.00	BDL
8.	4-Nitrophenol	2.00	100-02-7	50.00	BDL
9.	Pentachlorophenol	30.00	87-86-5	50.00	BDL
10.	Phenol	1.00	108-95-2	10.00	BDL
11.	2,4,6-Trichlorophenol	2.00	88-06-2	10.00	BDL
12.	+2-Fluorophenol		367-12-4		152.00
13.	++d6-Phenol.(s.std)	1.00	13127-88-3		36%

SUBURBAN LABORATORIES, INC.
ANALYSIS FOR ORGANIC CHEMICAL COMPOUNDS
BY
GAS CHROMATOGRAPHY / MASS SPECTROMETRY
FINAL REPORT

S/L #.....9-13491 CLIENT: WESTON

GC/MS FILE NO.....>9N551::E8 SAMPLE:" S-73 12:30 12/5/89 "

Final REPORT BY: JB

PH = 5.0

DATE RECEIVED: 12/07/89 DATE EXTRACTED: 12/09/89

Note: Upon visual review of the Total Ion Chromatogram, unidentified peaks were observed which are outside these parameters that are listed below.

****

>>>>>>>>>>>>>>>>> BASE / NEUTRAL EXTRACTABLES METHOD 8270 <<<<<<<<<<<<<<<<<

****

	COMPOUND	MDL ug/kg	CAS NUMBER	PQL	SAMPLE CONC. ug/kg (wet weight)
1.	Acenaphthene	1.00	83-32-9	10.0	BDL
2.	Acenaphthylene	1.00	208-96-8	10.0	1600.0
3.	Anthracene	1.00	120-12-7	10.0	2200.0
4.	Benzo(a)anthracene	1.00	56-55-3	10.0	BDL
5.	Benzo(b)fluoranthene	1.00	205-99-2	10.0	BDL
6.	Benzo(k)fluoranthene	1.00	207-08-9	10.0	BDL
7.	Benzo(a)pyrene	1.00	50-32-8	10.0	BDL
8.	Benzo(g,h,i)perylene	1.00	191-24-2	10.0	BDL
9.	Benzyl butyl phthalate	1.00	85-68-7	1.00	3600.0
10.	Bis(2-chloroethyl)ether	1.00	111-44-4	10.0	BDL
11.	Bis(2-chloroethoxy)methane	1.00	111-91-1	10.0	BDL
12.	Bis(2-ethylhexyl)phthalate	1.00	117-81-7	10.0	39700.0
13.	Bis(2-chloroisopropyl)ether	1.00	108-60-1	10.0	BDL
14.	4-Bromophenyl phenyl ether	1.00	101-55-3	10.0	BDL
15.	2-Chloronaphthalene	1.00	91-58-7	10.0	BDL
16.	4-Chlorophenyl phenyl ether	1.00	7005-72-3	10.0	BDL
17.	Chrysene	1.00	218-01-9	10.0	BDL
18.	Dibenzo(a,h)anthracene	1.00	53-70-3	10.0	BDL
19.	Dimethyl phthalate	1.00	131-11-3	10.0	1700.0
20.	Di-n-butylphthalate	1.00	84-74-2	10.0	98000.0
21.	1,3-Dichlorobenzene	1.00	541-73-1	10.0	BDL
22.	1,2-Dichlorobenzene	1.00	95-50-1	10.0	BDL
23.	1,4-Dichlorobenzene	1.00	106-46-7	10.0	BDL
24.	3,3-Dichlorobenzidine	*	91-94-1	*	*
25.	Diethyl phthalate	1.00	84-66-2	10.0	BDL

26.	2,4-Dinitrotoluene	1.00	121-14-2	10.0		BDL
27.	2,6-Dinitrotoluene	1.00	606-20-2	10.0		BDL
28.	Di-n-octyl phthalate	1.00	117-84-0	10.0		BDL
29.	Fluoranthene	1.00	206-44-0	10.0		BDL
30.	Fluorene	1.00	86-73-7	10.0		BDL
31.	Hexachlorobenzene	1.00	118-74-1	10.0		BDL
32.	Hexachlorobutadiene	1.00	87-68-3	10.0		BDL
33.	Hexachloroethane	1.00	67-72-1	10.0		BDL
34.	Indeno(1,2,3-cd)pyrene	1.00	193-39-5	10.0		BDL
35.	Isophorone	1.00	78-59-1	10.0		BDL
36.	Naphthalene	1.00	91-20-3	10.0		2600.0
37.	Nitrobenzene	1.00	98-95-3	10.0		BDL
38.	N-Nitrosodi-n-propylamine	*	621-64-7	10.0		BDL
39.	Phenanthrene	1.00	85-01-8	10.0		2400.0
40.	Pyrene	1.00	129-00-0	10.0		BDL
41.	1,2,4-Trichlorobenzene	1.00	120-82-1	10.0		BDL
42.	[illegible]-Anthracene	1.00				190.00
43.	**d8-Naphthalene Surrogate Standard					95%
44.	2-Fluorobiphenyl (temp.surr.)	1.00	321-60-8			NI
45.	d5-Nitrobenzene (temp.surr.)	1.00	4165-60-0			NI
46.	d14-4-Terphenyl (temp.surr.)	1.00				NI

ADDITIONAL EXTRACTABLE PARAMETERS

47.	Benzidine	*	92-87-5	*		*
48.	1,2-Diphenylhydrazine	30.00	122-66-7	30.0		BDL
49.	Hexachlorocyclopentadiene	*	77-47-4	*		*
50.	Toxaphene	*	8001-35-2	*		*
51.	N-Nitrosodimethylamine	*	62-75-9	*		*
52.	N-Nitrosodiphenylamine	*	86-30-6	*		BDL

- .....INTERNAL STANDARD

BDL.....BELOW DETECTION LIMIT MDL....METHOD DETECTION LIMIT

PQL....PRACTICAL QUANTITATION LIMIT
THE LOWEST LEVEL THAT CAN BE RELIABLY ACHIEVED WITHIN THE SPECIFIED LIMITS OF PRECISION AND ACCURACY DURING ROUTINE LABORATORY OPERATING CONDITIONS. THE PQL's LISTED HEREIN ARE PROVIDED FOR GUIDANCE AND MAY NOT ALWAYS BE ACHIEVABLE PQL's ARE HIGHLY MATRIX DEPENDENT. DETERMINATION OF PQL's FOR VARIOUS MATRICES IS THE PQL FOR GROUND WATER x FACTOR: MEDIUM LEVEL SOIL AND SLUDGES x7.5: NON WATER MISCIBLE WASTE x75.

*.....DUE TO COMPOUND INSTABILITY UNDER REGULAR GAS CHROMATOGRAPHY CONDITIONS THESE COMPOUNDS ARE SCREENED FOR IN THIS ANALYSIS.

**.....SURROGATE STANDARD % RECOVERY MI.....MATRIX INTERFERENCE

NI.....SURROGATE STANDARD NOT INJECTED

SUBURBAN LABORATORIES, INC.
4140 LITT DRIVE
HILLSIDE, ILLINOIS 60162

ANALYSIS OF ORGANIC CHEMICAL COMPOUNDS BY
GAS CHROMATOGRAPHY / ELECTRON CAPTURE DETECTOR
FINAL REPORT

S/L FILE NUMBER.....9-13491 CLIENT: WESTON

SIGNAL FILE: A:Q9837FB5.BNC SAMPLE: " S-23 12:30 12/5/89 "

FINAL REPORT BY: JB

pH= 5.0

DATE RECEIVED: 12/07/89 DATE EXTRACTED: 12/09/89

Note: Upon visual review of the Total Ion Chromatogram, unidentified peaks were observed outside of those parameters which are listed below.

****

>>>>>>>>>>>>>>>>>POLYCHLORINATED BIPHENYLS (PCB'S) METHOD 8080<<<<<<<<<<<<<<<<

****

	COMPOUND	MDL ug/kg	CAS NUMBER	PQL	SAMPLE CONC. ug/kg (wet weight)
1.	PCB-1016.....	<1.00 ...	12674-11-1	10.00	BDL
2.	PCB-1221.....	<1.00 ...	11104-28-2	10.00	BDL
3.	PCB-1232.....	<1.00 ...	11141-16-5	10.00	BDL
4.	PCB-1242.....	<1.00 ...	53469-21-9	10.00	BDL
5.	PCB-1248.....	<1.00 ...	12672-29-6	10.00	BDL
6.	PCB-1254.....	<1.00 ...	11097-69-1	10.00	BDL
7.	PCB-1260.....	<1.00 ...	11096-82-5	10.00	BDL

+.....INTERNAL STANDARD

MDL.....METHOD DETECTION LIMIT
THE MINIMUM CONCENTRATION OF A SUBSTANCE THAT CAN BE MEASURED AND REPORTED WITH 99% CONFIDENCE THAT VALUE IS ABOVE ZERO. (Ref: SW-846 3rd. Ed.)

BDL.....BELOW DETECTION LIMIT
DETECTION LIMITS LISTED HEREIN ARE PROVIDED FOR GUIDANCE, AND MAY NOT ALWAYS BE ACHIEVABLE.

SUBURBAN LABORATORIES INC.
4140 LITT DRIVE
HILLSIDE ILLINOIS 60162

ANALYSIS OF ORGANIC CHEMICAL COMPOUNDS BY
GAS CHROMATOGRAPHY / MASS SPECTROMETRY
FINAL REPORT

S/L #.....9-13491 CLIENT: WESTON

GC/MS FILE #.....>9N551::F8 SAMPLE:" S-23 12:10 12/5/89 "

FINAL REPORT BY: JR

DATE RECEIVED: 12/02/89 DATE EXTRACTED: 12/09/89

Note: Upon visual review of the Total Ion Chromatogram, unidentified peaks were observed which are outside these parameters that are listed below.

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>>>>>>>>>>>>>>>>>>>>>>> ACID EXTRACTABLES METHOD 8270 <<<<<<<<<<<<<<<<<<<<<<

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	COMPOUND	MDL ug/kg	CAS NUMBER	PQL	SAMPLE CONC. ug/kg (wet weight)
1.	4-Chloro-3-methylphenol	3.00	59-50-7	20.00	3200.0
2.	2-Chlorophenol	1.00	95-57-8	10.00	BDL
3.	2,4-Dichlorophenol	1.00	120-83-2	10.00	BDL
4.	2,4-Dimethylphenol	2.00	105-67-9	10.00	BDL
5.	2,4-Dinitrophenol	30.00	51-28-5	50.00	BDL
6.	2-Methyl-4,6-dinitrophenol	20.00	534-52-1	50.00	BDL
7.	2-Nitrophenol	3.00	88-75-5	10.00	BDL
8.	4-Nitrophenol	2.00	100-02-7	50.00	BDL
9.	Pentachlorophenol	30.00	87-86-5	50.00	BDL
10.	Phenol	1.00	108-95-2	10.00	1900.0
11.	2,4,6-Trichlorophenol	2.00	88-06-2	10.00	BDL
12.	+2-Fluorophenol		367-12-4		152.00
13.	++d6-Phenol (s.std)	1.00	13127-88-3		54%

SUBURBAN LABORATORIES, INC.
ANALYSIS FOR ORGANIC CHEMICAL COMPOUNDS
BY
GAS CHROMATOGRAPHY / MASS SPECTROMETRY
FINAL REPORT

S/L #.....9-13492 CLIENT: WESTON

GC/MS FILE NO.....>9N552::E8 SAMPLE:" S-74 1:30 12/5/89 "

Final REPORT BY: JB

PH = 5.0

DATE RECEIVED: 12/07/89 DATE EXTRACTED: 12/09/89

Note: Upon visual review of the Total Ion Chromatogram, unidentified peaks were observed which are outside these parameters that are listed below.

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>>>>>>>>>>>>>>>> BASE / NEUTRAL EXTRACTABLES METHOD 8270 <<<<<<<<<<<<<<<<

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	COMPOUND	MDL ug/kg	CAS NUMBER	PQL	SAMPLE CONC. ug/kg (wet weight)
1.	Acenaphthene	1.00	83-32-9	10.0	BDL
2.	Acenaphthylene	1.00	208-96-8	10.0	BDL
3.	Anthracene	1.00	120-12-7	10.0	100.0
4.	Benzo(a)anthracene	1.00	56-55-3	10.0	BDL
5.	Benzo(b)fluoranthene	1.00	205-99-2	10.0	BDL
6.	Benzo(k)fluoranthene	1.00	207-08-9	10.0	BDL
7.	Benzo(a)pyrene	1.00	50-32-8	10.0	BDL
8.	Benzo(g,h,i)perylene	1.00	191-24-2	10.0	BDL
9.	Benzyl butyl phthalate	1.00	85-68-7	1.00	BDL
10.	Bis(2-chloroethyl)ether	1.00	111-44-4	10.0	BDL
11.	Bis(2-chloroethoxy)methane	1.00	111-91-1	10.0	BDL
12.	Bis(2-ethylhexyl)phthalate	1.00	117-81-7	10.0	BDL
13.	Bis(2-chloroisopropyl)ether	1.00	108-60-1	10.0	BDL
14.	4-Bromophenyl phenyl ether	1.00	101-55-3	10.0	BDL
15.	2-Chloronaphthalene	1.00	91-58-7	10.0	BDL
16.	4-Chlorophenyl phenyl ether	1.00	7005-72-3	10.0	BDL
17.	Chrysene	1.00	218-01-9	10.0	BDL
18.	Dibenzo(a,h)anthracene	1.00	53-70-3	10.0	BDL
19.	Dimethyl phthalate	1.00	131-11-3	10.0	BDL
20.	Di-n-butylphthalate	1.00	84-74-2	10.0	BDL
21.	1,3-Dichlorobenzene	1.00	541-73-1	10.0	BDL
22.	1,2-Dichlorobenzene	1.00	95-50-1	10.0	BDL
23.	1,4-Dichlorobenzene	1.00	106-46-7	10.0	BDL
24.	3,3-Dichlorobenzidine	*	91-94-1	*	*
25.	Diethyl phthalate	1.00	84-66-2	10.0	BDL

26.	2,4-Dinitrotoluene	1.00	121-14-2	10.0	BDL
27.	2,6-Dinitrotoluene	1.00	606-20-2	10.0	BDL
28.	Di-n-octyl phthalate	1.00	117-84-0	10.0	BDL
29.	Fluoranthene	1.00	206-44-0	10.0	BDL
30.	Fluorene	1.00	86-73-7	10.0	BDL
31.	Hexachlorobenzene	1.00	118-74-1	10.0	BDL
32.	Hexachlorobutadiene	1.00	87-68-3	10.0	BDL
33.	Hexachloroethane	1.00	67-72-1	10.0	BDL
34.	Indeno(1,2,3-cd)pyrene	1.00	193-39-5	10.0	BDL
35.	Isophorone	1.00	78-59-1	10.0	BDL
36.	Naphthalene	1.00	91-20-3	10.0	BDL
37.	Nitrobenzene	1.00	98-95-3	10.0	BDL
38.	N-Nitrosodi-n-propylamine	*	621-64-7	10.0	BDL
39.	Phenanthrene	1.00	85-01-8	10.0	BDL
40.	Pyrene	1.00	129-00-0	10.0	BDL
41.	1,2,4-Trichlorobenzene	1.00	120-82-1	10.0	BDL
42.	+d10-Anthracene	1.00			190.00
43.	++d8-Naphthalene Surrogate Standard				91%
44.	2-Fluorobiphenyl (temp.surr.)	1.00	321-60-8		NI
45.	d5-Nitrobenzene (temp.surr.)	1.00	4165-60-0		NI
46.	d14-4-Terphenyl (temp.surr.)	1.00			NI

ADDITIONAL EXTRACTABLE PARAMETERS

47.	Benzidine	*	92-87-5	*	*
48.	1,2-Diphenylhydrazine	30.00	122-66-7	30.0	BDL
49.	Hexachlorocyclopentadiene	*	77-47-4	*	*
50.	Toxaphene	*	8001-35-2	*	*
51.	N-Nitrosodimethylamine	*	62-75-9	*	*
52.	N-Nitrosodiphenylamine	*	86-30-6	*	BDL

*.....INTERNAL STANDARD

BDL....BELOW DETECTION LIMIT MDL....METHOD DETECTION LIMIT

PQL....PRACTICAL QUANTITATION LIMIT
THE LOWEST LEVEL THAT CAN BE RELIABLY ACHIEVED WITHIN THE SPECIFIED LIMITS OF PRECISION AND ACCURACY DURING ROUTINE LABORATORY OPERATING CONDITIONS. THE PQL's LISTED HEREIN ARE PROVIDED FOR GUIDANCE AND MAY NOT ALWAYS BE ACHIEVABLE PQL's ARE HIGHLY MATRIX DEPENDENT. DETERMINATION OF PQL's FOR VARIOUS MATRICES IS THE PQL FOR GROUND WATER x FACTOR: MEDIUM LEVEL SOIL AND SLUDGES x7.5: NON WATER MISCIBLE WASTE x75.

*.....DUE TO COMPOUND INSTABILITY UNDER REGULAR GAS CHROMATOGRAPHY CONDITIONS THESE COMPOUNDS ARE SCREENED FOR IN THIS ANALYSIS.

++.....SURROGATE STANDARD % RECOVERY MI.....MATRIX INTERFERENCE

NI.....SURROGATE STANDARD NOT INJECTED

SUBURABAN LABORATORIES, INC.
4140 LITT DRIVE
HILLSIDE, ILLINOIS 60162

ANALYSIS OF ORGANIC CHEMICAL COMPOUNDS BY
GAS CHROMATOGRAPHY / ELECTRON CAPTURE DETECTOR
FINAL REPORT

S/L FILE NUMBER.....9-13492 CLIENT: WESTON

SIGNAL FILE: A:Q97E9BD0.BNC SAMPLE: " S-24 1:30 12/5/89 "

FINAL REPORT BY: JB

pH= 5.0

DATE RECEIVED: 12/07/89 DATE EXTRACTED: 12/09/89

Note: Upon visual review of the Total Ion Chromatogram, unidentified peaks were observed outside of those parameters which are listed below.

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>>>>>>>>>>>>>>>>>POLYCHLORINATED BIPHENYLS (PCB'S) METHOD 8080<<<<<<<<<<<<<<<<<

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	COMPOUND	MDL ug/kg	CAS NUMBER	PQL	SAMPLE CONC. ug/kg (wet weight)
1.	PCB-1016.....	<1.00 ...	12674-11-1	10.00	BDL
2.	PCB-1221.....	<1.00 ...	11104-28-2	10.00	BDL
3.	PCB-1232.....	<1.00 ...	11141-16-5	10.00	BDL
4.	PCB-1242.....	<1.00 ...	53469-21-9	10.00	BDL
5.	PCB-1248.....	<1.00 ...	12672-29-6	10.00	BDL
6.	PCB-1254.....	<1.00 ...	11097-69-1	10.00	BDL
7.	PCB-1260.....	<1.00 ...	11096-82-5	10.00	BDL

+.....INTERNAL STANDARD

MDL.....METHOD DETECTION LIMIT
THE MINIMUM CONCENTRATION OF A SUBSTANCE THAT CAN BE MEASURED AND REPORTED WITH 99% CONFIDENCE THAT VALUE IS ABOVE ZERO. (Ref: SW-846 3rd. Ed.)

BDL.....BELOW DETECTION LIMIT
DETECTION LIMITS LISTED HEREIN ARE PROVIDED FOR GUIDANCE, AND MAY NOT ALWAYS BE ACHIEVABLE.

SUBURBAN LABORATORIES INC.
4140 LITT DRIVE
HILLSIDE ILLINOIS 60162

ANALYSIS OF ORGANIC CHEMICAL COMPOUNDS BY
GAS CHROMATOGRAPHY / MASS SPECTROMETRY
FINAL REPORT

S/L #.....9-13492 CLIENT: WESTON

GC/MS FILE #.....>9N552::F8 SAMPLE:" S-74 1:10 12/5/89 "

FINAL REPORT BY: JB

DATE RECIEVED: 12/07/89 DATE EXTRACTED: 12/09/89

Note: Upon visual review of the Total Ion Chromatogram, unidentified peaks were observed which are outside these parameters that are listed below.

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>>>>>>>>>>>>>>>>>>>>>>>> ACID EXTRACTABLES METHOD 8270 <<<<<<<<<<<<<<<<<<<<<<

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	COMPOUND	MDL ug/kg	CAS NUMBER	PQL	SAMPLE CONC ug/kg (wet weight
1.	4-Chloro-3-methylphenol	3.00	59-50-7	20.00	BDL
2.	2-Chlorophenol	1.00	95-57-8	10.00	BDL
3.	2,4-Dichlorophenol	1.00	120-83-2	10.00	BDL
4.	2,4-Dimethylphenol	2.00	105-67-9	10.00	BDL
5.	2,4-Dinitrophenol	30.00	51-28-5	50.00	BDL
6.	2-Methyl-4,6-dinitrophenol	20.00	534-52-1	50.00	BDL
7.	2-Nitrophenol	3.00	88-75-5	10.00	BDL
8.	4-Nitrophenol	2.00	100-02-7	50.00	BDL
9.	Pentachlorophenol	30.00	87-86-5	50.00	BDL
10.	Phenol	1.00	108-95-2	10.00	BDL
11.	2,4,6-Trichlorophenol	2.00	88-06-2	10.00	BDL
12.	+2-Fluorophenol		367-12-4		152.00
13.	++d6-Phenol (s.std)	1.00	13127-88-3		74%