

SDMS US EPA REGION V -1

**SOME IMAGES WITHIN THIS
DOCUMENT MAY BE ILLEGIBLE
DUE TO BAD SOURCE
DOCUMENTS.**

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		REMARKS																	
89WT01		CANT ECA				P.S. 450 CHECKED (1) 10/27/82 (2) 10/27/82 (3) 10/27/82 (4) 10/27/82 (5) 10/27/82 (6) 10/27/82 (7) 10/27/82 (8) 10/27/82 (9) 10/27/82 (10) 10/27/82 (11) 10/27/82 (12) 10/27/82																	
SAMPLERS: (Signature)																							
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION																		
564																							
S59	10/27	1600	X		Lower beam water	1480	X																
S59	10/27	1600	X			1216	X																
S59	10/27	1600	X			121102		X															
S59	10/27	1600	X			3202			X														
S59	10/27	1600	X			181102				X													
S59	10/27	1600	X			27102					X												
S59	10/27	1600	X			181102						X											
S59	10/27	1600	X			3x VOA							X										
S59	10/27	1600	X			2x1								X									
					PROBLEMS (CALL MARY SUCIWA)																		
					(312) 93-1017																		
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Rich Mahall		10/27 1500		[Signature]		[Signature]		10/27/82		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]	
[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]	
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks															
[Signature]		[Signature]		[Signature]		[Signature]		SUBSISTENCE UNIT CHECKS CAN BE DONE NEEDS TO BE DONE															

White - Accompanies Shipment; Pink - Coordinator Field Files, Yellow - Laboratory File

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	REMARKS															
89NTG		Cans EECA																		
SAMPLERS: (Signature) <i>Greg A. Hines Tech. M.H.H.</i>				NO.	REMARKS															
STA. NO.	DATE	TIME	COMPL. DATE			STATION LOCATION														
556	10/27		X	Lower Lagoon out flow	1416	X														
556	10/27		X	out flow	147	X														
556	10/27		X	out flow	148	X														
556	10/27		X	out flow	1482	X														
557	10/27		X	sludge layer	1416	X														
557	10/27		X	sludge layer	148	X														
557	10/27		X	sludge layer	1482	X														
557	10/27		X	sludge layer	1416	X														
557	10/27		X	sludge layer	148	X														
557	10/27		X	sludge layer	1482	X														
558	10/27		X	sludge layer	1416	X														
558	10/27		X	sludge layer	148	X														
558	10/27		X	sludge layer	1482	X														
558	10/27		X	sludge layer	1416	X														
561	10/27		X	LOWR LAGOON DISCREET	1-802	X														case #12
562	10/27		X	LOWR LAGOON DISCREET	1-802	X														case #12
563	10/27		X	LOWR LAGOON DISCREET	1-802	X														case #12
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)										
<i>Greg A. Hines</i>		10/28 1700		<i>Ch...</i>		<i>(Signature)</i>		10/28 1630		<i>(Signature)</i>										
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)										
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks												
								SUBSISTING WITH LINES OUT DURING PERIOD 40 10/28 WITH PERMITS												

White - Accompanying Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
89WTO1		Comm. EECA				P.O. 25 10 170 1000	
SAMPLERS: (Signature) <i>Greg A. Huan Pick Shell</i>							
STA. NO.	DATE	TIME	CONT.	GRAB	STATION LOCATION	NO.	REMARKS
S51	10/25		✓		upper layer top layer	1 x 1kg	5-104185
S51	10/25		X		upper layer top layer	1 x 8g	5-104184
S51	10/25		X		upper layer top layer	1 x 7g	5-104183
S51	10/25		X		upper layer top layer	1 x 32g	5-104182
S52	10/25		X		upper layer middle	1 x 11g	5-104181
S52	10/25		X		upper layer middle	1 x 8g	5-104180
S52	10/25		X		upper layer middle	1 x 7g	5-104179
S52	10/25		X		upper layer middle	1 x 32g	5-104178
S52							
S53	10/25		X		upper layer top layer	1-8g	5-104177 case #2
S54	10/25		X		upper layer middle	1-8g	5-104176 case #2
S55	10/25		X		upper layer bottom layer	1-8g	5-104175 case #2
Relinquished by: (Signature) <i>Pick Shell</i>		Date / Time 10/29 1700		Received by: (Signature) <i>Ch...</i>		Relinquished by: (Signature) <i>...</i>	
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)	
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time	
				Remarks		LABORATORY - CASES 4100 010 0700 10000000 000000 10000 00000000	



CLIENT/SUBJECT _____ W.O. NO. _____

TASK DESCRIPTION _____ TASK NO. _____

PREPARED BY _____	DEPT _____	DATE _____	APPROVED BY _____ DEPT _____ DATE _____
MATH CHECK BY _____	DEPT _____	DATE _____	
METHOD REV. BY _____	DEPT _____	DATE _____	

S51	10/25/88	Upper Lagoon Top Layer Composite
S52	10/25/88	Upper Lagoon Middle Composite
S53	10/25/88	Upper Lagoon Top Layer Grab [Core #4]
S54	10/25/88	Upper Lagoon Middle Layer Grab
S55	10/25/88	Upper Lagoon Bottom Layer Grab
S56	10/27/88	Lower Lagoon Oil Layer
S57	10/27/88	Lower Lagoon Sludge Layer Composite
S58	10/27/88	Lower Lagoon Sludge Layer Composite
S59	10/27/88	Lower Lagoon Water Composite
S60	10/27/88	Blank
S61	10/27/88	Lower Lagoon Discreet Top Grab [Core #1]
S62	10/27/88	Lower Lagoon Discreet Middle Grab
S63	10/27/88	Lower Lagoon Discreet Bottom Grab

SUBURBAN LABORATORIES, Inc.

4140 LITT DRIVE

HILLSDALE, ILLINOIS 60162 - 1183

EARL L. ROSENBERG
President

November 11, 1988

H.R. THOMAS, JR.
Director

RECEIVED
NOV 14 1988
IAT REG V

Roy F. Weston, Inc.
Sper Division
River Center
111 North Canal Street
8th Floor, Suite #855
Chicago, Illinois 60606

Attention: Ms. Melody Sullivan

Re: Project #89WT01
P.O. #22678

Sample Received: 10/28/88

Source: S/L #8-10695 - Upper Lagoon Top Layer Composite Sample, S51, 10/25/88

pH (1:3 dilution)	2.2	Iron	(ppm)	3397
Cyanide-Total (ppm)	< 0.022	Lead	(ppm)	267
BTU/lb	7266	Magnesium	(ppm)	543
Organic Chlorine (Z)	0.229	Manganese	(ppm)	77.3
Organic Bromine (Z)	0.517	Mercury	(ppm)	0.11
Organic Fluorine (Z)	< 0.148	Nickel	(ppm)	17.6
Ash (Z)	178.48	Potassium	(ppm)	103
Specific Gravity	1.2	Selenium	(ppm)	< 0.10
Water (Z)	11.02	Silver	(ppm)	< 0.10
Aluminum (ppm)	982	Tin	(ppm)	< 0.10
Antimony (ppm)	6.63	Zinc	(ppm)	3067
Arsenic (ppm)	< 0.10	Thallium	(ppm)	< 0.10
Barium (ppm)	0.60	Sodium	(ppm)	226
Beryllium (ppm)	< 0.10	Cobalt	(ppm)	1.13
Cadmium (ppm)	6.50	Vanadium	(ppm)	1.53
Calcium (ppm)	8747	Sulfide	(ppm)	0.213
Chrom-Total (ppm)	69.6	Flash Point (CC)		170°F
Copper (ppm)	152			

ANALYSIS CERTIFIED BY: *H.R. Thomas, Jr.* Director (HRT/ck)

SUBURBAN LABORATORIES, Inc.

4140 LITT DRIVE

HILLSIDE, ILLINOIS 60162 - 1183

EARL L. ROSENBERG
 President

November 11, 1988

M.R. THOMAS, JR.
 Director

Roy F. Weston, Inc.
 Sper Division
 River Center
 111 North Canal Street
 8th Floor, Suite #855
 Chicago, Illinois 60606

Attention: Ms. Melody Sullivan
 Environmental Scientists

Re: Project #89WT01
P.O. #22678

Sample Received: 10/28/88

Source: S/L #8-10696 - Upper Lagoon Middle Composite Sample S52, 10/25/88

pH		1.8	Chrom-Total	(ppm)	114
Cyanide-Total	(ppm)	0.42	Copper	(ppm)	247
BTU/lb		8297	Iron	(ppm)	12280
Organic Chlorine	(%)	0.208	Lead	(ppm)	214
Organic Bromine	(%)	0.483	Magnesium	(ppm)	2043
Organic Fluorine	(%)	0.178	Manganese	(ppm)	132
Flash Point (CC)		> 212°F	Mercury	(ppm)	0.006
Ash	(%)	18.60	Nickel	(ppm)	74.8
Specific Gravity		1.2	Potassium	(ppm)	94.5
Water	(%)	10.60	Selenium	(ppm)	< 0.10
Sulfide	(ppm)	0.28	Silver	(ppm)	< 0.10
Aluminum	(ppm)	1071	Tin	(ppm)	< 0.10
Antimony	(ppm)	6.20	Zinc	(ppm)	7160
Arsenic	(ppm)	< 0.10	Thallium	(ppm)	< 0.10
Barium	(ppm)	0.90	Sodium	(ppm)	283
Beryllium	(ppm)	< 0.10	Cobalt	(ppm)	2.77
Cadmium	(ppm)	8.53	Vanadium	(ppm)	2.63
Calcium	(ppm)	12120			

ANALYSIS CERTIFIED BY:

Director (HRT/ck)

SUBURBAN LABORATORIES, Inc.

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EARL I. ROSENBERG
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November 11, 1988

M.R. THOMAS, JR.
 Director

Roy F. Weston, Inc.
 Sper Division
 River Center
 111 North Canal Street
 8th Floor, Suite #855
 Chicago, Illinois 60606

Attention: Ms. Melody Sullivan

Re: Project #89WT01
P.O. #22678

Sample Received: 10/28/88

Source: S/L #8-10700 - Lower Lagoon Oil Layer Composite Sample #S56
 10/27/88

pH (1:3 dilution)		3.7	Chrom-Total	(ppm)	14.8
Cyanide-Total	(ppm)	0.12	Copper	(ppm)	5.70
BTU/lb		10221	Iron	(ppm)	141
Organic Chlorine	(%)	0.166	Lead	(ppm)	554
Organic Bromine	(%)	< 0.02	Magnesium	(ppm)	18.1
Organic Fluorine	(%)	< 0.02	Manganese	(ppm)	1.36
Flash Point (CC)		> 212°F	Mercury	(ppm)	< 0.003
Ash	(%)	0.43	Nickel	(ppm)	2.80
Specific Gravity		0.9	Potassium	(ppm)	5.40
Water	(%)	11.91	Selenium	(ppm)	< 0.10
Sulfide	(ppm)	0.213	Silver	(ppm)	0.30
Aluminum	(ppm)	52.6	Tin	(ppm)	1061
Antimony	(ppm)	1.63	Zinc	(ppm)	14.3
Arsenic	(ppm)	< 0.10	Thallium	(ppm)	1.07
Barium	(ppm)	2.66	Sodium	(ppm)	45.4
Beryllium	(ppm)	< 0.10	Cobalt	(ppm)	0.40
Cadmium	(ppm)	0.26	Vanadium	(ppm)	0.40
Calcium	(ppm)	89.7			

ANALYSIS CERTIFIED BY:

Director (HRT/ck)

SUBURBAN LABORATORIES, Inc.

4140 LITT DRIVE

MILLSIDE, ILLINOIS 60162 • 1183

EARL I. ROSENBERG
 President

November 11, 1988

MR. THOMAS, JR.
 Director

Roy F. Weston, Inc.
 Sper Division
 River Center
 111 North Canal Street
 8th Floor, Suite #855
 Chicago, Illinois 60606

Attention: Ms. Melody Sullivan

Re: Project #89WT01
P.O. #22678

Sample Received: 10/28/88

Source: S/L #8-10701 - Lower Lagoon Sludge Layer Composite Sample #557
 10/27/88

pH (1:3 dilution)	1.7	Chrom-Total	(ppm)	130
Cyanide-Total	(ppm) 2.89	Copper	(ppm)	281
BTU/lb	6676	Iron	(ppm)	11075
Organic Chlorine	(%) 0.488	Lead	(ppm)	378
Organic Bromine	(%) 0.140	Magnesium	(ppm)	2242
Organic Fluorine	(%) < 0.02	Manganese	(ppm)	158
Flash Point (CC)	146°F	Mercury	(ppm)	0.003
Ash	(%) 31.38	Nickel	(ppm)	47.2
Specific Gravity	1.3	Potassium	(ppm)	329
Water	(%) 17.0	Selenium	(ppm)	3.76
Sulfide	(ppm) 0.24	Silver	(ppm)	0.20
Aluminum	(ppm) 2667	Tin	(ppm)	1117
Antimony	(ppm) 5.40	Zinc	(ppm)	5168
Arsenic	(ppm) < 0.10	Thallium	(ppm)	< 0.10
Barium	(ppm) 0.27	Sodium	(ppm)	171
Beryllium	(ppm) < 0.10	Cobalt	(ppm)	4.97
Cadmium	(ppm) 10.1	Vanadium	(ppm)	8.50
Calcium	(ppm) 12470			

ANALYSIS CERTIFIED BY:

Director (HKT/ck)

SUBURBAN LABORATORIES, Inc.

4140 LITT DRIVE

HILLSIDE, ILLINOIS 60182 • 1183

EARL I. ROSENBERG
 President

November 11, 1988

M.R. THOMAS, JR.
 Director

Roy F. Weston, Inc.
 Sper Division
 River Center
 111 North Canal Street
 8th Floor, Suite #855
 Chicago, Illinois 60606

Attention: Ms. Melody Sullivan

Re: Project #89WT01
P.O. #22678

Sample Received: 10/28/88

Source: S/L #8-10702 - Lower Lagoon Sludge Layer Composite Sample S58
 10/27/88

pH (1:3 dilution)	1.9	Chrom-Total (ppm)	125
Cyanide-Total (ppm)	1.04	Copper (ppm)	285
BTU/lb	6129	Iron (ppm)	8053
Organic Chlorine (Z)	0.438	Lead (ppm)	646
Organic Bromine (Z)	0.055	Magnesium (ppm)	2763
Organic Fluorine (Z)	< 0.020	Manganese (ppm)	126
Flash Point (CC)	170°F	Mercury (ppm)	< 0.003
Ash (Z)	29.00	Nickel (ppm)	49.9
Specific Gravity	1.3	Potassium (ppm)	443
Water (Z)	15.52	Selenium (ppm)	6.73
Sulfide (ppm)	0.40	Silver (ppm)	0.36
Aluminum (ppm)	4230	Tin (ppm)	< 0.10
Antimony (ppm)	8.23	Thallium (ppm)	< 0.10
Arsenic (ppm)	< 0.10	Sodium (ppm)	238
Barium (ppm)	< 0.10	Cobalt (ppm)	6.57
Beryllium (ppm)	< 0.10	Vanadium (ppm)	10.4
Cadmium (ppm)	5.16	Zinc (ppm)	3026
Calcium (ppm)	11043		

ANALYSIS CERTIFIED BY:

Director (HRT/ck)

SUBURBAN LABORATORIES, Inc.

4140 LITT DRIVE

HILLSIDE, ILLINOIS 60162 - 1183

EARL ROSENBERG
President

November 11, 1988

H.R. THOMAS, JR.
Director

Roy F. Weston, Inc.
Sper Division
River Center
111 North Canal Street
8th Floor, Suite #855
Chicago, Illinois 60606

Attention: Ms. Melody Sullivan

Re: Project #89WT01
P.O. #22678

Sample Received: 10728/88

Source: S/L #8-10706 - Lower Lagoon Water Composite Sample #S59
1600, 10/27/88

Total Solids	(Z)	0.0077	Chrom-Total	(mg/l)	< 0.
Phenols	(mg/l)	0.070	Copper	(mg/l)	< 0.
Oils & Greases	(mg/l)	13	Iron	(mg/l)	0.
pH		2.7	Lead	(mg/l)	< 0.
Alkalinity	(mg/l)	N/A	Magnesium	(mg/l)	1.
Cyanide-Total	(mg/l)	0.005	Manganese	(mg/l)	< 0.
Cyanide-Reactive		-	Mercury	(ug/l)	< 0.
Flash Point (CC)		> 212°F	Nickel	(mg/l)	0.
Sulfide-Total	(mg/l)	0.0261	Selenium	(mg/l)	< 0.
Sulfide-Reactive		-	Silver	(mg/l)	< 0.
Aluminum	(mg/l)	0.27	Tin	(mg/l)	< 0.
Antimony	(mg/l)	< 0.10	Zinc	(mg/l)	0.
Arsenic	(mg/l)	< 0.10	Thallium	(mg/l)	< 0.
Barium	(mg/l)	< 0.10	Sodium	(mg/l)	4.
Beryllium	(mg/l)	< 0.10	Cobalt	(mg/l)	< 0.
Cadmium	(mg/l)	< 0.10	Vanadium	(mg/l)	< 0.
Calcium	(mg/l)	3.97	Potassium	(mg/l)	0.

N/A = Not Applicable

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: U.S.D.A. 61788 • Ill. Dept. of Public Health 617188
Amer. Spice Trade Assn. • F.D.A. Reg. 61418678 • Ill. EPA 616828 • Wls. DWR 600012210

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 8th Floor, Suite #855
 Chicago, Illinois 60606

Attention: Ms. Melody Sullivan

Re: Project #89WT01
P.O. #22678

Sample Received: 10/28/88

Source: S/L #8-10707 - Blank Sample #S60, 1700, 10/27/88

Total Solids	(%)	0.017	Chrom-Total	(mg/l)	< 0.10
Phenols	(mg/l)	< 0.015	Copper	(mg/l)	< 0.10
Oils & Greases	(mg/l)	8	Iron	(mg/l)	< 0.10
pH		2.5	Lead	(mg/l)	< 0.10
Alkalinity	(mg/l)	N/A	Magnesium	(mg/l)	< 0.10
Cyanide-Total	(mg/l)	< 0.002	Manganese	(mg/l)	< 0.10
Cyanide-Reactive		-	Mercury	(ug/l)	< 0.10
Flash Point (CC)		> 212°F	Nickel	(mg/l)	< 0.10
Sulfide-Total	(mg/l)	0.0213	Potassium	(mg/l)	0.12
Sulfide-Reactive		-	Selenium	(mg/l)	< 0.10
Aluminum	(mg/l)	< 0.10	Silver	(mg/l)	< 0.10
Antimony	(mg/l)	< 0.10	Tin	(mg/l)	< 0.10
Arsenic	(mg/l)	< 0.10	Zinc	(mg/l)	< 0.10
Barium	(mg/l)	< 0.10	Thallium	(mg/l)	< 0.10
Beryllium	(mg/l)	< 0.10	Sodium	(mg/l)	0.37
Cadmium	(mg/l)	< 0.10	Cobalt	(mg/l)	< 0.10
Calcium	(mg/l)	< 0.10	Vanadium	(mg/l)	< 0.10

ANALYSIS CERTIFIED BY:

Director (HRT/ck)

24.	cis-1,3-Dichloropropene	1.00	10061-01-5	5.00	BDL
25.	trans-1,3-Dichloropropene	1.00	10061-02-6	5.00	BDL
26.	Ethyl Benzene	1.00	100-41-4	5.00	BDL
27.	Ethanol	1.00	64-17-5	5.00	BDL
28.	Hexane	1.00	110-54-3	50.00	2880.0
29.	2-Hexanone	1.00	591-78-6	50.00	BDL
30.	Methylene Chloride	1.00	75-09-2	5.00	BDL
31.	Methyl Ethyl Ketone	1.00	78-93-3	100.00	BDL
32.	4-Methyl-2-pentanone	1.00	108-10-1	50.00	BDL
33.	Styrene	1.00	100-42-5	5.00	BDL
34.	1,1,2,2-Tetrachloroethane	1.00	79-34-5	5.00	BDL
35.	Tetrachloroethene	1.00	127-18-4	5.00	BDL
36.	Toluene	1.00	108-88-3	5.00	790.0
37.	1,1,1-Trichloroethane	1.00	71-55-6	5.00	BDL
38.	1,1,2-Trichloroethane	1.00	79-00-5	5.00	BDL
39.	Trichloroethene	1.00	79-01-6	5.00	BDL
40.	Vinyl Acetate	1.00	108-05-4	50.00	BDL
41.	Vinyl Chloride	1.00	75-01-4	50.00	BDL
42.	m-Xylene	1.00	108-38-3	5.00	420.0
43.	**o-Xylene	1.00	95-47-6	5.00	BDL
44.	**p-Xylene	1.00	106-42-3	5.00	BDL
45.	+4-Bromofluorobenzene	1.00	74-97-5		695.00
46.	**1,4-Dichlorobutane	1.00	110-56-5		98%

*.....INTERNAL STANDARD *.....COMPOUND SCREENED

MDL....METHOD DETECTION LIMIT

BDL....BELOW DETECTION LIMIT

DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE.

**.....SURROGATE STANDARD % RECOVERY

NI.....SURROGATE STANDARD NOT INJECTED

**.....o-XYLENE / p-XYLENE ARE CO-ELUTING (UNDER PRESENT CONDITIONS WE ARE UNABLE TO DISCERN BETWEEN THE TWO, HENCE THE QUANTITATION IS PLUS OR MINUS THAT VALUE)

PQL...PRACTICAL QUANTITATION LIMIT

PLEASE NOTE: SAMPLE PQL'S ARE HIGHLY MATRIX DEPENDENT. PQL'S LISTED HEREIN ARE PROVIDED FOR GUIDANCE AND MAY NOT ALWAYS BE ACHIEVABLE. THEY ARE BASED ON SOIL/SEDIMENT FOR WATER/ETC. OTHER MATRICES MAY INTRODUCE ADDITIONAL FACTORS. WATER MISCIBLE LIQUID WASTE X50; HIGH LEVEL SOIL & SLUDGES X125; NON-WATER MISCIBLE WASTE X500.

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	*
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.....				190.00
43.	+d8-Napthalene Surrogate Standard Recovery.....				52%
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.....	*	BDL
50.	N-Nitrosodimethylamine.....	*	62-75-9.....	*	BDL
51.	N-Nitrosodiphenylamine.....	*	86-30-6.....	*	*

..... INTERNAL STANDARD **..... SURROGATE STANDARD % RECOVERY

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 & FACTORY MEDIUM LEVEL SOIL AND SLOTTES x7.5 IN NON WATER MISCIBLE WASTE x75.

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

***... IF SAMPLE WAS ANALYZED FOR VOLATILE ORGANICS, THE RESULTS ARE GIVEN IN THE VOLATILE ORGANICS REPORT

NI... SURROGATE STANDARD NOT INJECTED

MOL....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.)

BOL....BELOW DETECTION LIMIT

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

PQL....PRACTICAL QUANTITATION LIMIT

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***.....UNREFINED WORKING VALUE**

GC PARAMETERS: DB-5 fused silica capillary column 30m x 0.25mm;
ID Film Thickness: 0.25um; Col. Temp.: hold 4 min.
at 180'C, then to 230'C at 3'C/min.; Make-up Gas:
Nitrogen 60ml/min.; Det.: ECD; Split Ratio: 5:1;

Rev. 6/88

323

*.....INTERNAL STANDARD

MDL...METHOD DETECTION LIMIT

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

PQL...PRACTICAL QUANTITATION LIMIT
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MEDIUM LEVEL SOIL AND SLUDGES x7.5: NON WATER MISCIBLE
WASTE x75.

NI....SURROGATE STD NOT INJECTED

325

24.	cis-1,3-Dichloropropene	1.00	10061-01-5	5.00	BDL
25.	trans-1,3-Dichloropropene	1.00	10061-02-6	5.00	BDL
26.	Ethyl Benzene	1.00	100-41-4	5.00	BDL
27.	Ethanol	1.00	64-17-5	5.00	BDL
28.	Hexane	1.00	110-54-3	50.00	3290.0
29.	2-Hexanone	1.00	591-78-6	50.00	BDL
30.	Methylene Chloride	1.00	75-09-2	5.00	BDL
31.	Methyl Ethyl Ketone	1.00	78-93-3	100.00	BDL
32.	4-Methyl-2-pentanone	1.00	108-10-1	50.00	BDL
33.	Styrene	1.00	100-42-5	5.00	BDL
34.	1,1,2,2-Tetrachloroethane	1.00	79-34-5	5.00	BDL
35.	Tetrachloroethene	1.00	127-18-4	5.00	610.0
36.	Toluene	1.00	108-88-3	5.00	790.0
37.	1,1,1-Trichloroethane	1.00	71-55-6	5.00	BDL
38.	1,1,2-Trichloroethane	1.00	79-00-5	5.00	BDL
39.	Trichloroethene	1.00	79-01-6	5.00	BDL
40.	Vinyl Acetate	1.00	108-05-4	50.00	BDL
41.	Vinyl Chloride	1.00	75-01-4	50.00	BDL
42.	m-Xylene	1.00	108-38-3	5.00	600.0
43.	**o-Xylene	1.00	95-47-6	5.00	BDL
44.	**p-Xylene	1.00	106-42-3	5.00	BDL
45.	+4-Bromofluorobenzene	1.00	74-97-5		695.00
46.	+1,4-Dichlorobutane	1.00	110-56-5		101%

*..... INTERNAL STANDARD

*..... COMPOUND SCREENED

MDL.....METHOD DETECTION LIMIT

BDL.....BELOW DETECTION LIMIT

DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE.

**.....SURROGATE STANDARD % RECOVERY

NI.....SURROGATE STANDARD NOT INJECTED

**.....o-XYLENE / p-XYLENE ARE CO-ELUTING (UNDER PRESENT CONDITIONS WE ARE UNABLE TO DISCERN BETWEEN THE TWO, HENCE THE QUANTITATION IS PLUS OR MINUS THAT VALUE).

PQL.....PRACTICAL QUANTITATION LIMIT

PLEASE NOTE: SAMPLE PQLs ARE HIGHLY MATRIX DEPENDENT. PQLs LISTED HEREIN ARE PROVIDED FOR GUIDANCE AND MAY NOT ALWAYS BE ACHIEVABLE. THEY ARE BASED ON SOIL/SEDIMENT FOR THE HEIGHT. OTHER MATRICES MAY INTRODUCE ADDITIONAL FACTORS. WATER MISCIBLE LIQUID WASTE (X50) HIGH LEVEL SOIL & SLUDGES (X125) NON-WATER MISCIBLE WASTE (X500) AND SEWAGE (X125).

REV. 3/88

321

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	*
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.....				190.00
43.	+d8-Napthalene Surrogate Standard Recovery.....				77%
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	*	BDL
50.	N-Nitrosodimethylamine.....	*	62-75-9	*	BDL
51.	N-Nitrosodiphenylamine.....	*	86-30-6	*	*

*.....INTERNAL STANDARD **.....SURROGATE STANDARD % RECOVERY

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

PQL...PRACTICAL QUANTITATION LIMIT

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PQL'S ARE HIGHLY MATRIX DEPENDENT. DETERMINATION OF PQL'S FOR VARIOUS MATRICES IS THE PQL FOR GROUND WATER x FACTOR 10, MEDIUM LEVEL SOIL AND SLUDGES x 7.5, NON WATER MISCIBLE WASTE x 75.

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

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NI....SURROGATE STANDARD NOT INJECTED

24

MDL....METHOD DETECTION LIMIT
THE MINIMUM CONCENTRATION OF A SUBSTANCE THAT CAN BE
MEASURED AND REPORTED WITH 99% CONFIDENCE THAT VALUE
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MEDIUM LEVEL SOIL AND SLUDGES x7.5; NON WATER MISCIBLE
WASTE WATER x75.

*.....UNREFINED WORKING VALUE

GC PARAMETERS: DB-5 fused silica capillary column 30m x 0.25mm;
ID Film Thickness: 0.25um; Col. Temp.: hold 4 min.
at 180'C, then to 230'C at 3'C/min.; Make-up Gas:
Nitrogen 60ml/min.; Det.: ECD; Split Ratio: 5:1;

Rev. 6/88

♦.....INTERNAL STANDARD

MOL...METHOD DETECTION LIMIT

BOL...BELOW DETECTION LIMIT

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Nitrogen 60ml/min.; Det.: ECD; Split Ratio: 5:1;

Rev. 6/88

5
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Rev. 6/88

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at 180'C, then to 230'C at 3'C/min.; Make-up Gas:
Nitrogen 60ml/min.; Det.: ECO; Split Ratio: 5:1;

24.	cis-1,3-Dichloropropene...	1.00	10061-01-5...	5.00	BDL
25.	trans-1,3-Dichloropropene...	1.00	10061-02-6...	5.00	BDL
26.	Ethyl Benzene.....	1.00	100-41-4...	5.00	BDL
27.	Ethanol.....	1.00	64-17-5...	5.00	BDL
28.	Hexane.....	1.00	110-54-3...	50.00	380.0
29.	2-Hexanone.....	1.00	591-78-6...	50.00	BDL
30.	Methylene Chloride.....	1.00	75-09-2...	5.00	BDL
31.	Methyl Ethyl Ketone.....	1.00	78-93-3...	100.00	BDL
32.	4-Methyl-2-pentanone.....	1.00	108-10-1...	50.00	BDL
33.	Styrene.....	1.00	100-42-5...	5.00	BDL
34.	1,1,2,2-Tetrachloroethane...	1.00	79-34-5...	5.00	BDL
35.	Tetrachloroethene.....	1.00	127-18-4...	5.00	BDL
36.	Toluene.....	1.00	108-88-3...	5.00	320.0
37.	1,1,1-Trichloroethane....	1.00	71-55-6...	5.00	BDL
38.	1,1,2-Trichloroethane....	1.00	79-00-5...	5.00	BDL
39.	Trichloroethene.....	1.00	79-01-6...	5.00	BDL
40.	Vinyl Acetate.....	1.00	108-05-4...	50.00	BDL
41.	Vinyl Chloride.....	1.00	75-01-4...	50.00	BDL
42.	m-Xylene.....	1.00	108-38-3...	5.00	BDL
43.	**o-Xylene.....	1.00	95-47-6...	5.00	BDL
44.	**p-Xylene.....	1.00	106-42-3...	5.00	BDL
45.	+4-Bromofluorobenzene.....	1.00	74-97-5...		695.00
46.	+1,4-Dichlorobutane.....	1.00	110-56-5...		80%

*..... INTERNAL STANDARD *..... COMPOUND SCREENED

MDL.... METHOD DETECTION LIMIT

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DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE.

**..... SURROGATE STANDARD % RECOVERY

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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	ECL
29.	Fluorethane.....	1.00	206-44-0	10.0	BDL
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41.	1,2,4-Trichlorobenzene.....	1.00	120-82-1	10.0	BDL
42.	+d10-Anthracene.....				190.00
43.	+d8-Napthalene Surrogate Standard Recovery.....				61%
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	*	BDL
50.	N-Nitrosodimethylamine.....	*	62-75-9	*	BDL
	N-Nitrosodiphenylamine.....	*	86-30-6	*	*

+.....INTERNAL STANDARD ++.....SURROGATE STANDARD % RECOVERY

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

.....IF SAMPLE WAS ANALYZED FOR VOLATILE ORGANICS, THE RESULTS ARE GIVEN IN THE VOLATILE ORGANICS REPORT.

NI....SURROGATE STANDARD NOT INJECTED

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.)

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*.....UNREFINED WORKING VALUE

GC PARAMETERS: DB-5 fused silica capillary column 30m x 0.25mm;
ID Film Thickness: 0.25um; Col. Temp.: hold 4 min.
at 180'C, then to 230'C at 3'C/min.; Make-up Gas:
Nitrogen 60ml/min.; Det.: ECD; Split Ratio: 5:1;

Rev. 6/88

*.....INTERNAL STANDARD

MDL...METHOD DETECTION LIMIT

BDL...BELOW DETECTION LIMIT

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

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.

NI....SURROGATE STD NOT INJECTED

24.	cis-1,3-Dichloropropene	1.00	10061-01-5	5.00	BDL
25.	trans-1,3-Dichloropropene	1.00	10061-02-6	5.00	BDL
26.	Ethyl Benzene	1.00	100-41-4	5.00	1190.0
27.	Ethanol	1.00	64-17-5	5.00	BDL
28.	Hexane	1.00	110-54-3	50.00	2330.0
29.	2-Hexanone	1.00	591-78-6	50.00	BDL
30.	Methylene Chloride	1.00	75-09-2	5.00	BDL
31.	Methyl Ethyl Ketone	1.00	78-93-3	100.00	BDL
32.	4-Methyl-2-pentanone	1.00	108-10-1	50.00	BDL
33.	Styrene	1.00	100-42-5	5.00	BDL
34.	1,1,2-Tetrachloroethane	1.00	79-34-5	5.00	BDL
35.	Tetrachloroethene	1.00	127-18-4	5.00	14120.0
36.	Toluene	1.00	108-88-3	5.00	2390.0
37.	1,1,1-Trichloroethane	1.00	71-55-6	5.00	650.0
38.	1,1,2-Trichloroethane	1.00	79-00-5	5.00	BDL
39.	Trichloroethene	1.00	79-01-6	5.00	BDL
40.	Vinyl Acetate	1.00	108-05-4	50.00	BDL
41.	Vinyl Chloride	1.00	75-01-4	50.00	BDL
42.	m-Xylene	1.00	108-38-3	5.00	14400.0
43.	*o-Xylene	1.00	95-47-6	5.00	10550.0
44.	*p-Xylene	1.00	106-42-3	5.00	10550.0
45.	+4-Bromofluorobenzene	1.00	74-97-5		695.00
46.	++1,4-Dichlorobutane	1.00	110-56-5		94%

*.....INTERNAL STANDARD

*.....COMPOUND SCREENED

MDL....METHOD DETECTION LIMIT

BDL....BELOW DETECTION LIMIT

DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE.

*.....SURROGATE STANDARD % RECOVERY

NI.....SURROGATE STANDARD NOT INJECTED

**.....o-XYLENE / p-XYLENE ARE CO-ELUTING (UNDER PRESENT CONDITIONS WE ARE UNABLE TO DISCERN BETWEEN THE TWO, HENCE THE QUANTITATION IS PLUS OR MINUS THAT VALUE).

PQL....PRACTICAL QUANTITATION LIMIT

PLEASE NOTE: SAMPLE PQLs ARE HIGHLY MATRIX DEPENDENT. PQLs LISTED HEREIN ARE PROVIDED FOR GUIDANCE AND MAY NOT ALWAYS BE ACHIEVABLE. THEY ARE BASED ON SOIL/SEDIMENT FOR NET WEIGHT. OTHER MATRICES MAY INTRODUCE ADDITIONAL FACTORS. (WATER MISCIBLE LIQUID WASTE x30; HIGH LEVEL SOIL & SLUDGES x125; NON-WATER MISCIBLE WASTE x100)

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	*
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.....				190.00
43.	+d8-Naphthalene Surrogate Standard Recovery.....				61%
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.....	*	BDL
50.	N-Nitrosodimethylamine.....	*	62-75-9.....	*	BDL
51.	N-Nitrosodiphenylamine.....	*	86-30-6.....	*	*

*.....INTERNAL STANDARD **.....SURROGATE STANDARD % RECOVERY

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.

***...IF SAMPLE WAS ANALYZED FOR VOLATILE ORGANICS, THE RESULTS ARE GIVEN IN THE VOLATILE ORGANICS REPORT.

NI....SURROGATE STANDARD NOT INJECTED

REV 7/88

R - Compound found

57

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.

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 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 WATER x75.

*.....UNREFINED WORKING VALUE

GC PARAMETERS: DB-5 fused silica capillary column 30m x 0.25mm;
10 Film Thickness: 0.25um; Col. Temp.: hold 4 min.
at 180'C, then to 230'C at 3'C/min.; Make-up Gas:
Nitrogen 60ml/min.; Det.: ECD; Split Ratio: 5:1;

Rev. 6/88

*.....INTERNAL STANDARD

MDL...METHOD DETECTION LIMIT

BOL...BELOW DETECTION LIMIT
DETECTION LIMITS LISTED HEREIN ARE PROVIDED FOR GUIDANCE,
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MEDIUM LEVEL SOIL AND SLUDGES x7.5; NON WATER MISCIBLE
WASTE x75.

NI....SURROGATE STD NOT INJECTED

24.	cis-1,3-Dichloropropene	1.00	10061-01-5	5.00	BOL
25.	trans-1,3-Dichloropropene	1.00	10061-02-6	5.00	BOL
26.	Ethyl Benzene	1.00	100-41-4	5.00	1190.0
27.	Ethanol	1.00	64-17-5	5.00	BOL
28.	Hexane	1.00	110-54-3	50.00	2330.0
29.	2-Hexanone	1.00	591-78-3	50.00	BOL
30.	Methylene Chloride	1.00	75-09-2	5.00	BOL
31.	Methyl Ethyl Ketone	1.00	78-93-3	100.00	BOL
32.	4-Methyl-2-pentanone	1.00	108-10-1	50.00	BOL
33.	Styrene	1.00	100-42-5	5.00	BOL
34.	1,1,2,2-Tetrachloroethane	1.00	79-34-5	5.00	BOL
35.	Tetrachloroethene	1.00	127-18-4	5.00	14120.0
36.	Toluene	1.00	108-88-3	5.00	2390.0
37.	1,1,1-Trichloroethane	1.00	71-55-6	5.00	650.0
38.	1,1,2-Trichloroethane	1.00	79-00-5	5.00	BOL
39.	Trichloroethene	1.00	79-01-6	5.00	BOL
40.	Vinyl Acetate	1.00	108-05-4	50.00	BOL
41.	Vinyl Chloride	1.00	75-01-4	50.00	BOL
42.	m-Xylene	1.00	108-38-3	5.00	14400.0
43.	o-Xylene	1.00	95-47-6	5.00	10550.0
44.	p-Xylene	1.00	106-42-3	5.00	10550.0
45.	4-Bromofluorobenzene	1.00	74-97-5		695.00
46.	1,4-Dichlorobutane	1.00	110-56-5		94%

*..... INTERNAL STANDARD *..... COMPOUND SCREENED

MDL....METHOD DETECTION LIMIT

BOL....BELOW DETECTION LIMIT

DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE.

*..... SURROGATE STANDARD % RECOVERY

NI.....SURROGATE STANDARD NOT INJECTED

**.....o-XYLENE / p-XYLENE ARE CO-ELUTING (UNDER PRESENT CONDITIONS WE ARE UNABLE TO DISCERN BETWEEN THE TWO, HENCE THE QUANTITATION IS PLUS OR MINUS THAT VALUE).

PQL....PRACTICAL QUANTITATION LIMIT

PLEASE NOTE: SAMPLE PQLs ARE HIGHLY MATRIX DEPENDENT. PQLs LISTED HEREIN ARE PROVIDED FOR GUIDANCE AND MAY NOT ALWAYS BE ACHIEVABLE. THEY ARE BASED ON SOIL / SEDIMENT FOR THE WEIGHT OF OTHER MATRICES MAY INTRODUCE ADDITIONAL FACTORS. WATER MISCIBLE LIQUID WASTE (X30); HIGH LEVEL SOIL & SLUDGES (X12); NON-WATER MISCIBLE WASTE (X50).

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	*
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.....				190.00
43.	♦♦d8-Napthalene Surrogate Standard Recovery.....				41%
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	*	BDL
50.	N-Nitrosodimethylamine.....	*	62-75-9	*	BDL
51.	N-Nitrosodiphenylamine.....	*	86-30-6	*	*

*..... INTERNAL STANDARD ♦♦..... SURROGATE STANDARD % RECOVERY

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 KEY TO DETERMINING THE FACTOR

MEDIUM LEVEL SOIL AND SLUDGES *7.5% NON-WATER MISCIBLE

WASTE *75% NON-WATER MISCIBLE

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

***... IF SAMPLE WAS ANALYZED FOR VOLATILE ORGANICS, THE RESULTS ARE GIVEN IN THE VOLATILE ORGANICS REPORT

NI... SURROGATE STANDARD NOT INJECTED

MOL....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.)

BOL....BELOW DETECTION LIMIT

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

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*.....UNREFINED WORKING VALUE

GC PARAMETERS: DB-5 fused silica capillary column 30m x 0.25mm;
ID Film Thickness: 0.25um; Col. Temp.: hold 4 min.
at 180'C, then to 230'C at 3'C/min.; Make-up Gas:
Nitrogen 60ml/min.; Det.: ECD; Split Ratio: 5:1;

Rev. 6/88

♦.....INTERNAL STANDARD

MOL...METHOD DETECTION LIMIT

BDL...BELOW DETECTION LIMIT
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MEDIUM LEVEL SOIL AND SLUDGES x7.5; NON WATER MISCIBLE
WASTE x75.

NI....SURROGATE STD NOT INJECTED

24.	cis-1,3-Dichloropropene	1.00	10061-01-5	5.00	BDL
25.	trans-1,3-Dichloropropene	1.00	10061-02-6	5.00	BDL
26.	Ethyl Benzene	1.00	100-41-4	5.00	760.0
27.	Ethanol	1.00	64-17-5	5.00	BDL
28.	Hexane	1.00	110-54-3	50.00	2580.0
29.	2-Hexanone	1.00	591-78-6	50.00	BDL
30.	Methylene Chloride	1.00	75-09-2	5.00	BDL
31.	Methyl Ethyl Ketone	1.00	78-93-3	100.00	BDL
32.	4-Methyl-2-pentanone	1.00	108-10-1	50.00	BDL
33.	Styrene	1.00	100-42-5	5.00	BDL
34.	1,1,2,2-Tetrachloroethane	1.00	79-34-5	5.00	BDL
35.	Tetrachloroethene	1.00	127-18-4	5.00	8710.0
36.	Toluene	1.00	108-88-3	5.00	1620.0
37.	1,1,1-Trichloroethane	1.00	71-55-6	5.00	BDL
38.	1,1,2-Trichloroethane	1.00	79-00-5	5.00	BDL
39.	Trichloroethene	1.00	79-01-6	5.00	BDL
40.	Vinyl Acetate	1.00	108-05-4	50.00	BDL
41.	Vinyl Chloride	1.00	75-01-4	50.00	BDL
42.	m-Xylene	1.00	108-38-3	5.00	8630.0
43.	o-Xylene	1.00	95-47-6	5.00	6000.0
44.	p-Xylene	1.00	106-42-3	5.00	6000.0
45.	4-Bromofluorobenzene	1.00	74-97-5		695.00
46.	1,4-Dichlorobutane	1.00	110-56-5		57%

*..... INTERNAL STANDARD

*..... COMPOUND SCREENED

MDL....METHOD DETECTION LIMIT

BDL...BELOW DETECTION LIMIT

DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE.

*..... SURROGATE STANDARD & RECOVERY

NI..... SURROGATE STANDARD NOT INJECTED

**..... o-XYLENE / p-XYLENE ARE CO-ELUTING UNDER PRESENT CONDITIONS WE ARE UNABLE TO DISCERN BETWEEN THE TWO, HENCE THE QUANTITATION IS PLUS OR MINUS THAT VALUE).

PQL... PRACTICAL QUANTITATION LIMIT

PLEASE NOTE: SAMPLE PQLs ARE HIGHLY MATRIX DEPENDENT. PQLs LISTED HEREIN ARE PROVIDED FOR GUIDANCE AND MAY NOT ALWAYS BE ACHIEVABLE. THEY ARE BASED ON SOIL/SEDIMENT FOR WET WEIGHT. OTHER MATRICES MAY INTRODUCE ADDITIONAL FACTORS. WATER MISCIBLE LIQUID WASTE x50; HIGH LEVEL SOIL & SLOTTES x125; NON-WATER MISCIBLE WASTE x300.

REV 03/88

24.	cis-1,3-Dichloropropene	1.00	10061-01-5	5.00	BDL
25.	trans-1,3-Dichloropropene	1.00	10061-02-6	5.00	BDL
26.	Ethyl Benzene	1.00	100-41-4	5.00	620.0
27.	Ethanol	1.00	64-17-5	5.00	BDL
28.	Hexane	1.00	110-54-3	50.00	BDL
29.	2-Hexanone	1.00	591-78-6	50.00	BDL
30.	Methylene Chloride	1.00	75-09-2	5.00	BDL
31.	Methyl Ethyl Ketone	1.00	78-93-3	100.00	BDL
32.	4-Methyl-2-pentanone	1.00	108-10-1	50.00	BDL
33.	Styrene	1.00	100-42-5	5.00	BDL
34.	1,1,2,2-Tetrachloroethane	1.00	79-34-5	5.00	BDL
35.	Tetrachloroethene	1.00	127-18-4	5.00	8210.0
36.	Toluene	1.00	108-88-3	5.00	1630.0
37.	1,1,1-Trichloroethane	1.00	71-55-6	5.00	560.0
38.	1,1,2-Trichloroethane	1.00	79-00-5	5.00	BDL
39.	Trichloroethene	1.00	79-01-6	5.00	BDL
40.	Vinyl Acetate	1.00	108-05-4	50.00	BDL
41.	Vinyl Chloride	1.00	75-01-4	50.00	BDL
42.	m-Xylene	1.00	108-38-3	5.00	7880.0
43.	**o-Xylene	1.00	95-47-6	5.00	3090.0
44.	**p-Xylene	1.00	106-42-3	5.00	3090.0
45.	+4-Bromofluorobenzene	1.00	74-97-5		695.00
46.	+1,4-Dichlorobutane	1.00	110-56-5		95%

*.....INTERNAL STANDARD

*.....COMPOUND SCREENED

MDL....METHOD DETECTION LIMIT

BDL....BELOW DETECTION LIMIT

DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE.

++.....SURROGATE STANDARD % RECOVERY

NI.....SURROGATE STANDARD NOT INJECTED

**.....o-XYLENE / p-XYLENE ARE CO-ELUTING (UNDER PRESENT CONDITIONS WE ARE UNABLE TO DISCERN BETWEEN THE TWO, HENCE THE QUANTITATION IS PLUS OR MINUS THAT VALUE).

PQL....PRACTICAL QUANTITATION LIMIT

PLEASE NOTE: SAMPLE PQLs ARE HIGHLY MATRIX DEPENDENT. PQLs LISTED HEREIN ARE PROVIDED FOR GUIDANCE AND MAY NOT ALWAYS BE ACHIEVABLE. THEY ARE BASED ON SOIL/SEDIMENT FOR WET WEIGHT. OTHER MATRICES MAY INTRODUCE ADDITIONAL FACTORS. WATER MISCIBLE LIQUID WASTE (x50), HIGH LEVEL SOIL & SLUDGES (x25), NON-WATER MISCIBLE WASTE (x50).

REV. 10/78

26.	2,4-Dinitrotoluene.....	1.00	121-14-7	10.0	BDL
27.	2,6-Dinitrotoluene.....	1.00	606-20-7	10.0	BDL
28.	Di-n-octyl phthalate.....	1.00	117-84-1	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	118-74-3	10.0	BDL
32.	Hexachlorobutadiene.....	1.00	87-68-7	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	*
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.....				190.00
43.	+d8-Napthalene Surrogate Standard Recovery.....				60%
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	*	BDL
50.	N-Nitrosodimethylamine.....	*	62-75-9	*	BDL
51.	N-Nitrosodiphenylamine.....	*	86-30-6	*	*

*.....INTERNAL STANDARD **.....SURROGATE STANDARD % RECOVERY

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 x 7.5; NON WATER MISCIBLE WASTE x 75.

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

***...IF SAMPLE WAS ANALYZED FOR VOLATILE ORGANICS, THE RESULTS ARE GIVEN IN THE VOLATILE ORGANICS REPORT.

NI....SURROGATE STANDARD NOT INJECTED

MOL....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.

PQL....PRACTICAL QUANTITATION LIMIT

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.....UNREFINED WORKING VALUE

GC PARAMETERS: DB-5 fused silica capillary column 30m x 0.25mm;
ID Film Thickness: 0.25um; Col. Temp.: hold 4 min.
at 180'C, then to 230'C at 3'C/min.; Make-up Gas:
Nitrogen 60ml/min.; Det.: ECD; Split Ratio: 5:1;

*.....INTERNAL STANDARD

MDL...METHOD DETECTION LIMIT

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

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.

NI....SURROGATE STD NOT INJECTED

24.	Ethyl benzene.....	1.00.....	100-41-4.....	BDL
25.	Methylene chloride.....	1.00.....	75-09-2.....	BDL
26.	1,1,2,2-Tetrachloroethane.....	1.00.....	79-34-5.....	BDL
27.	Tetrachloroethane.....	1.00.....	127-18-4.....	BDL
28.	Toluene.....	1.00.....	108-88-3.....	BDL
29.	1,1,1-Trichloroethane.....	1.00.....	71-55-6.....	BDL
30.	1,1,2-Trichloroethane.....	1.00.....	79-00-5.....	BDL
31.	Trichloroethene.....	1.00.....	79-01-6.....	BDL
32.	Vinyl chloride.....	1.00.....	75-01-4.....	BDL
33.	+4-Bromofluorobenzene.....	1.00.....	74-97-5.....	695.00
34.	+1,4-Dichlorobutane.....	1.00.....	110-56-5.....	98%

+.....INTERNAL STANDARD

MCL...MINIMUM DETECTION LIMIT

BDL...BELOW DETECTION LIMIT

DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE.

*.....COMPOUND SCREENED

+*.....SURROGATE STANDARD % RECOVERY

NI.....SURROGATE STANDARD NOT INJECTED

Rev. 8/88

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.)

3DL....BELOW DETECTION LIMIT

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

.....UNREFINED WORKING VALUE

GC PARAMETERS: DB-5 fused silica capillary column 30m x 0.25mm;
ID Film Thickness: 0.25um; Col. Temp.: hold 4 min.
at 180°C, then to 230°C at 3°C/min.; Make-up Gas:
Nitrogen 60ml/min.; Det.: ECD; Split Ratio: 5:1;

Rev. 6/88

25.	Diethyl phthalate.....	1.00.....	84-66-2.....	BOL
26.	2,4-Dinitrotoluene.....	1.00.....	121-14-2.....	BOL
27.	2,6-Dinitrotoluene.....	1.00.....	606-20-2.....	BOL
28.	Di-n-octyl phthalate.....	1.00.....	117-84-0.....	BOL
29.	Fluoranthene.....	1.00.....	206-44-0.....	BOL
30.	Fluorene.....	1.00.....	86-73-7.....	BOL
31.	Hexachlorobenzene.....	1.00.....	118-74-1.....	BOL
32.	Hexachlorobutadiene.....	1.00.....	87-68-3.....	BOL
33.	Hexachloroethane.....	1.00.....	67-72-1.....	BOL
34.	Indeno(1,2,3-cd)pyrene.....	1.00.....	193-39-5.....	BOL
35.	Isophorone.....	1.00.....	78-59-1.....	BOL
36.	Naphthalene.....	1.00.....	91-20-3.....	20.0
37.	Nitrobenzene.....	1.00.....	98-95-3.....	BOL
38.	N-Nitrosodi-n-propylamine.....	*.....	621-74-7.....	*
39.	Phenanthrene.....	1.00.....	85-01-8.....	BOL
40.	Pyrene.....	1.00.....	129-00-1.....	BOL
41.	1,2,4-Trichlorobenzene.....	1.00.....	120-82-1.....	BOL
42.	d10-Anthracene.....			190.00
43.	d8-Napthalene Surrogate Standard Recovery.....			55%
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.....	BOL
49.	Hexachlorocyclopentadiene.....	*.....	77-47-4.....	*
50.	N-Nitrosodimethylamine.....	*.....	62-75-9.....	*
51.	N-Nitrosodiphenylamine.....	*.....	86-30-6.....	*

*.....INTERNAL STANDARD

MDL.....METHOD DETECTION LIMIT

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

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

*.....IF SAMPLE WAS ANALYZED FOR VOLATILES ORGANICS, THE
 RESULTS ARE GIVEN IN THE VOLATILES ORGANICS REPORT.

*.....SURROGATE STANDARD & RECOVERY

NI.....SURROGATE STANDARD NOT INJECTED

24.	Ethyl benzene.....	1.00.....	100-41-4....	BOL
25.	Methylene chloride.....	1.00.....	75-09-2....	BOL
26.	1,1,2,2-Tetrachloroethane...	1.00.....	79-34-5....	BOL
27.	Tetrachloroethene.....	1.00.....	127-18-4....	BOL
28.	Toluene.....	1.00.....	108-88-3....	BOL
29.	1,1,1-Trichloroethane.....	1.00.....	71-55-6....	BOL
30.	1,1,2-Trichloroethane.....	1.00.....	79-00-5....	EOL
31.	Trichloroethene.....	1.00.....	79-01-6....	BOL
32.	Vinyl chloride.....	1.00.....	75-01-4....	BOL
33.	4-Bromofluorobenzene.....	1.00.....	74-97-5....	695.00
34.	1,4-Dichlorobutane.....	1.00.....	110-56-5....	95%

*.....INTERNAL STANDARD

MDL...MINIMUM DETECTION LIMIT

BOL...BELOW DETECTION LIMIT

DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE.

*.....COMPOUND SCREENED

*.....SURROGATE STANDARD % RECOVERY

NI....SURROGATE STANDARD NOT INJECTED

Rev. 8/88

444

25.	Diethyl phthalate.....	1.00.....	84-66-2.....	BOL
26.	2,4-Dinitrotoluene.....	1.00.....	121-14-2.....	BOL
27.	2,6-Dinitrotoluene.....	1.00.....	606-20-2.....	BOL
28.	Di-n-octyl phthalate.....	1.00.....	117-84-0.....	BOL
29.	Fluoranthene.....	1.00.....	206-44-0.....	BOL
30.	Fluorene.....	1.00.....	86-73-7.....	BOL
31.	Hexachlorobenzene.....	1.00.....	118-74-1.....	BOL
32.	Hexachlorobutadiene.....	1.00.....	87-68-3.....	BOL
33.	Hexachloroethane.....	1.00.....	67-72-1.....	BOL
34.	Indeno(1,2,3-cd)pyrene.....	1.00.....	193-39-5.....	BOL
35.	Isophorone.....	1.00.....	78-59-1.....	BOL
36.	Naphthalene.....	1.00.....	91-20-3.....	BOL
37.	Nitrobenzene.....	1.00.....	98-95-3.....	BOL
38.	N-Nitrosodi-n-propylamine.....	*.....	621-74-7.....	*
39.	Phenanthrene.....	1.00.....	85-01-8.....	BOL
40.	Pyrene.....	1.00.....	129-00-1.....	BOL
41.	1,2,4-Trichlorobenzene.....	1.00.....	120-82-1.....	BOL
42.	d10-Anthracene.....			190.00
43.	d8-Naphthalene Surrogate Standard Recovery.....			61%
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.....	BOL
49.	Hexachlorocyclopentadiene.....	*.....	77-47-4.....	*
50.	N-Nitrosodimethylamine.....	*.....	62-75-9.....	*
51.	N-Nitrosodiphenylamine.....	*.....	86-30-6.....	*

*.....INTERNAL STANDARD

MDL.....METHOD DETECTION LIMIT

BOL.....BELOW DETECTION LIMIT

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*.....SURROGATE STANDARD & RECOVERY

NI.....SURROGATE STANDARD NOT INJECTED

25.	Diethyl phthalate.....	1.00.....	84-66-2	DL
26.	2,4-Dinitrotoluene.....	1.00.....	121-14-2	DL
27.	2,6-Dinitrotoluene.....	1.00.....	606-20-2	DL
28.	Di-n-octyl phthalate.....	1.00.....	117-84-0	DL
29.	Fluoranthene.....	1.00.....	206-44-0	BDL
30.	Fluorene.....	1.00.....	86-73-7	DL
31.	Hexachlorobenzene.....	1.00.....	118-74-1	DL
32.	Hexachlorobutadiene.....	1.00.....	87-68-3	BDL
33.	Hexachloroethane.....	1.00.....	67-72-1	BDL
34.	Indeno(1,2,3-cd)pyrene.....	1.00.....	193-39-5	BDL
35.	Isophorone.....	1.00.....	78-59-1	BDL
36.	Naphthalene.....	1.00.....	91-20-3	BDL
37.	Nitrobenzene.....	1.00.....	98-95-3	BDL
38.	N-Nitrosodi-n-propylamine.....	*.....	621-74-7	*
39.	Phenanthrene.....	1.00.....	85-01-8	BDL
40.	Pyrene.....	1.00.....	129-00-1	BDL
41.	1,2,4-Trichlorobenzene.....	1.00.....	120-82-1	BDL
42.	d10-Anthracene.....			190.00
43.	d8-Napthalene Surrogate Standard Recovery.....			60%
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	BDL
49.	Hexachlorocyclopentadiene.....	*.....	77-47-4	*
50.	N-Nitrosodimethylamine.....	*.....	62-75-9	*
51.	N-Nitrosodiphenylamine.....	*.....	86-30-6	*

*..... INTERNAL STANDARD

MDL.....METHOD DETECTION LIMIT

BDL.....BELOW DETECTION LIMIT
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*..... SURROGATE STANDARD % RECOVERY

NI.....SURROGATE STANDARD NOT INJECTED

MOL....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

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*.....UNREFINED WORKING VALUE

GC PARAMETERS: DB-5 fused silica capillary column 30m x 0.25mm;
ID Film Thickness: 0.25um; Col. Temp.: hold 4 min.
at 180°C, then to 230°C at 3°C/min.; Make-up Gas:
Nitrogen 60ml/min.; Det.: ECD; Split Ratio: 5:1;

Rev. 6/88

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
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THE LOWEST LEVEL THAT CAN BE RELIABLY ACHIEVED WITHIN THE
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ARE HIGHLY MATRIX DEPENDENT. DETERMINATION OF PQL'S FOR
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MEDIUM LEVEL SOIL AND SLUDGES x7.5; NON WATER MISCIBLE
WASTE WATER x75.

*.....UNREFINED WORKING VALUE

GC PARAMETERS: DB-5 fused silica capillary column 30m x 0.25mm;
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.....UNREFINED WORKING VALUE

GC PARAMETERS: DB-5 fused silica capillary column 30m x 0.25mm;
ID Film Thickness: 0.25um; Col. Temp.: hold 4 min.
at 180'C, then to 230'C at 3'C/min.; Make-up Gas:
Nitrogen 60ml/min.; Det.: ECD; Split Ratio: 5:1;

Rev. 6/88

MOL....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.)

BOL....BELOW DETECTION LIMIT

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

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 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 WATER x75.

*.....UNREFINED WORKING VALUE

GC PARAMETERS: DB-5 fused silica capillary column 30m x 0.25mm; ID Film Thickness: 0.25um; Col. Temp.: hold 4 min. at 180'C, then to 230'C at 3'C/min.; Make-up Gas: Nitrogen 60ml/min.; Det.: ECD; Split Ratio: 5:1;

FEDERAL BUREAU OF INVESTIGATION
 4140 SOUTH OGDEN
 HILLSIDE, ILLINOIS 60150

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

LAB FILE NUMBER.....9-10695

CLIENT: POLICE DEPARTMENT

GC MS FILE NUMBER.....V0901:07

SAMPLE: 1651 Upper Layer, Top
 Layer 10-25-98 Cont.

FINAL REPORT BY: SDE

DATE RECEIVED: 10/29-98

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

TABLE COME F001-F005 SPENT SOLVENTS SCAN AS LISTED

COMPOUND	IDL ug/kg	MS NUMBER	IDL	SAMPLE ID ug/kg net weight
1. Acetone.....	*	67-64-1	30.00	SCD
2. n-Butyl Alcohol.....	*	71-36-3	4.00	SCD
3. Carbon Disulfide.....	1.00	75-15-0	5.00	BDL
4. Carbon Tetrachloride.....	1.00	56-23-5	5.00	BDL
5. Chlorobenzene.....	1.00	108-90-7	5.00	BDL
6. Cresols.....	*	1319-77-3	*	*
7. o-Cresol.....	*	95-46-7	*	SCD
8. m-Cresol.....	*	108-39-4	*	SCD
9. p-Cresol.....	*	106-44-5	*	SCD
10. Cresylic Acid.....	*	*	*	SCD
11. Cyclohexanone.....	*	108-94-1	*	SCD
12. 1,2-Dichlorobenzene.....	1.00	95-50-1	5.00	BDL
13. Ethyl Acetate.....	*	141-78-6	5.00	SCD
14. Ethylbenzene.....	1.00	100-41-4	5.00	BDL
15. Ethyl Ether.....	*	60-29-7	*	SCD
16. Isobutanol.....	*	78-83-1	*	SCD
17. Methanol.....	*	67-56-1	N/A	SCD
18. Methylene Chloride.....	1.00	75-09-2	5.00	BDL
19. Methyl Ethyl Ketone.....	1.00	78-93-3	*	BDL
20. Methyl Isobutyl Ketone.....	*	108-10-1	*	SCD
21. Nitrobenzene.....	*	98-95-3	*	SCD
22. Pyridine.....	*	110-86-1	*	SCD
23. Tetrachloroethylene.....	1.00	79-01-6	5.00	BDL
24. Toluene.....	1.00	108-88-3	5.00	790
25. 1,1,1-Trichloroethane.....	1.00	71-55-6	5.00	BDL
26. 1,1,2-Trichloro-1,2,2-Trifluoroethane.....	1.00	76-13-1	5.00	SCD
27. Trichloroethylene.....	1.00	79-01-6	5.00	BDL
28. Trichlorofluoromethane.....	1.00	*	5.00	BDL

29.	Xylene.....	1330-20-7.....		420.0
30.	m-Xylene.....	1.00.....100-38-3.....5.00.....		BOL
31.	o-Xylene.....	1.00.....95-47-6.....		BOL
32.	p-Xylene.....	1.00.....106-42-3.....		BOL
	+4-Bromofluorobenzene.....	1.00.....		695.00
	+1,4-Dichlorobutane.....	1.00.....110-56-5.....		98%

*.....INTERNAL STANDARD

MDL...METHOD DETECTION LIMIT

BOL...BELOW DETECTION LIMIT

DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE.

*.....COMPOUND SCREENED

**.....o-XYLENE / p-XYLENE ARE CO-ELUTING (UNDER PRESENT CONDITIONS UNABLE TO DISCERN BETWEEN THE TWO, HENCE THE QUANTITATION IS PLUS OR MINUS THAT VALUE).

PQL...PRACTICAL QUANTITATION LIMIT

PLEASE NOTE: SAMPLE PQLs ARE HIGHLY MATRIX INDEPENDENT. PQLs LISTED HEREIN ARE PROVIDED FOR GUIDANCE AND MAY NOT ALWAYS BE ACHIEVABLE. THEY ARE BASED ON SOIL/SEDIMENT FOR WET WEIGHT. OTHER MATRICES MAY INTRODUCE ADDITIONAL FACTORS: WATER MISCIBLE LIQUID WASTE x50; HIGH LEVEL SOIL & SLUDGES x125; NON-WATER MISCIBLE WASTE x500.

++.....SURROGATE STANDARD % RECOVERY

NI.....SURROGATE STANDARD NOT INJECTED

SCD...SCREENED

REV. 11/88

29.	Xylene.....	1330-20-7.....	
30.	m-Xylene.....	108-38-3.....	610.0
31.	**o-Xylene.....	95-47-6.....	BOL
32.	**p-Xylene.....	106-42-3.....	BOL
	*4-Bromofluorobenzene.....	1.00.....	695.01
	*1,4-Dichlorobutane.....	1.00.....	101%

*.....INTERNAL STANDARD

MOL...METHOD DETECTION LIMIT

BDL...BELOW DETECTION LIMIT

DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE.

*.....COMPOUND SCREENED

**.....o-XYLENE / p-XYLENE ARE CO-ELLUTING (UNDER PRESENT CONDITIONS UNABLE TO DISCERN BETWEEN THE TWO, HENCE THE QUANTITATION IS PLUS OR MINUS THAT VALUE).

PQL...PRACTICAL QUANTITATION LIMIT

PLEASE NOTE: SAMPLE PQLs ARE HIGHLY MATRIX INDEPENDENT. PQLs LISTED HEREIN ARE PROVIDED FOR GUIDANCE AND MAY NOT ALWAYS BE ACHIEVABLE. THEY ARE BASED ON SOIL/SEDIMENT FOR WET WEIGHT. OTHER MATRICES MAY INTRODUCE ADDITIONAL FACTORS: WATER MISCIBLE LIQUID WASTE x50; HIGH LEVEL SOIL & SLUDGES x125; NON-WATER MISCIBLE WASTE x500.

*.....SURROGATE STANDARD % RECOVERY

NI.....SURROGATE STANDARD NOT INJECTED

SCD...SCREENED

REV. 11/88

29.	Xylene.....	1.00	1330-20-7.....		
30.	m-Xylene.....	1.00	108-38-3.....	5.00	BDL
31.	••o-Xylene.....	1.00	95-47-6.....		BDL
32.	••p-Xylene.....	1.00	106-42-3.....		BDL
	•4-Bromofluorobenzene.....	1.00			695.00
	••1,4-Dichlorobutane.....	1.00	110-56-5.....		80%

*.....INTERNAL STANDARD

MDL...METHOD DETECTION LIMIT

BDL...BELOW DETECTION LIMIT

DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE.

*.....COMPOUND SCREENED

**.....o-XYLENE / p-XYLENE ARE CO-ELLUTING (UNDER PRESENT CONDITIONS UNABLE TO DISCERN BETWEEN THE TWO, HENCE THE QUANTITATION IS PLUS OR MINUS THAT VALUE).

PQL...PRACTICAL QUANTITATION LIMIT

PLEASE NOTE: SAMPLE PQLs ARE HIGHLY MATRIX INDEPENDENT. PQLs LISTED HEREIN ARE PROVIDED FOR GUIDANCE AND MAY NOT ALWAYS BE ACHIEVABLE. THEY ARE BASED ON SOIL/SEDIMENT FOR WET WEIGHT. OTHER MATRICES MAY INTRODUCE ADDITIONAL FACTORS: WATER MISCIBLE LIQUID WASTE x50; HIGH LEVEL SOIL & SLUDGES x125; NON-WATER MISCIBLE WASTE x500.

♦♦.....SURROGATE STANDARD % RECOVERY

NI....SURROGATE STANDARD NOT INJECTED

SCD...SCREENED

REV. 11/88

40F

ylene.....	1330-20-7.....	
m-Xylene.....	1.00.....108-38-3.....	5.00.....14400.0
o-Xylene.....	1.00.....95-47-6.....	10550.0
p-Xylene.....	1.00.....106-42-3.....	10550.0
Bromofluorobenzene.....	1.00.....	695.00
4-Dichlorobutene.....	1.00.....110-56-5.....	94%

.....INTERNAL STANDARD

DL...METHOD DETECTION LIMIT

QL...BELOW DETECTION LIMIT

DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE.

.....COMPOUND SCREENED

**.....o-XYLENE / p-XYLENE ARE CO-ELUTING (UNDER PRESENT CONDITIONS UNABLE TO DISCERN BETWEEN THE TWO, HENCE THE QUANTITATION IS PLUS OR MINUS THAT VALUE).

QL...PRACTICAL QUANTITATION LIMIT

PLEASE NOTE: SAMPLE PQLs ARE HIGHLY MATRIX INDEPENDENT. PQLs LISTED HEREIN ARE PROVIDED FOR GUIDANCE AND MAY NOT ALWAYS BE ACHIEVABLE. THEY ARE BASED ON SOIL/SEDIMENT FOR WET WEIGHT. OTHER MATRICES MAY INTRODUCE ADDITIONAL FACTORS: WATER MISCIBLE LIQUID WASTE x50; HIGH LEVEL SOIL & SLUDGES x125; NON-WATER MISCIBLE WASTE x200.

**.....SURROGATE STANDARD % RECOVERY

NI.....SURROGATE STANDARD NO. INJECTED

SCD...SCREENED

REV. 11/88

SUBURBAN LABORATORIES INC.
 4140 LITT DRIVE
 HILLSIDE, ILLINOIS 60162

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

FILE NUMBER.....8-10702

CLIENT: ROY F. MERTON

LAB FILE NUMBER.....09659::D3

SAMPLE: "598 Upper Lagoon Sludge
Layer 1/22/88 Comp."

LAB REPORT BY: SDB

DATE RECEIVED: 10/28/89

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

TABLE CCWE F001-F005 SPENT SOLVENTS SCAN

COMPOUND	MDL ug/kg	CAS NUMBER	PQL	SAMPLE CONC. ug/kg (wet weight)
1. Acetone.....	*	67-64-1	30.00	SCD
2. n-Butyl Alcohol.....	*	71-36-3	*	SCD
3. Carbon Disulfide.....	1.00	75-15-0	5.00	BDL
4. Carbon Tetrachloride.....	1.00	56-23-5	5.00	BDL
5. Chlorobenzene.....	1.00	108-90-7	5.00	BDL
6. Cresols.....	*	1319-77-3	*	SCD
7. o-Cresol.....	*	95-48-7	*	SCD
8. m-Cresol.....	*	108-39-4	*	SCD
9. p-Cresol.....	*	106-44-5	*	SCD
10. Cresylic Acid.....	*	*	*	SCD
11. Cyclohexanone.....	*	108-94-1	*	SCD
12. 1,2-Dichlorobenzene.....	1.00	95-50-1	5.00	BDL
13. Ethyl Acetate.....	*	141-78-6	5.00	SCD
14. Ethylbenzene.....	1.00	100-41-4	5.00	760.0
15. Ethyl Ether.....	*	60-29-7	*	SCD
16. Isobutanol.....	*	78-83-1	*	SCD
17. Methanol.....	*	67-56-1	N/A	SCD
18. Methylene Chloride.....	1.00	75-09-2	5.00	BDL
19. Methyl Ethyl Ketone.....	1.00	78-93-3	5.00	BDL
20. Methyl Isobutyl Ketone.....	1.00	108-10-1	5.00	SCD
21. Nitrobenzene.....	1.00	98-95-3	5.00	SCD
22. Pyridine.....	1.00	110-86-1	5.00	SCD
23. Tetrachloroethylene.....	1.00	79-01-6	5.00	BDL
24. Toluene.....	1.00	108-88-3	5.00	1620
25. 1,1,1-Trichloroethane.....	1.00	71-55-6	5.00	BDL
26. 1,1,2-Trichloro-1,2,2-Trifluoroethane.....	1.00	76-13-1	5.00	SCD
27. Trichloroethylene.....	1.00	79-01-6	5.00	BDL
28. Trichlorofluoromethane.....	1.00	75-75-2	5.00	BDL

Xylene.....	1330-20-7.....	
m-Xylene.....	1.00.....108-38-3....	9.00..... 8630.0
o-Xylene.....	1.00.....95-47-6.....	6000.0
p-Xylene.....	1.00.....106-42-3.....	6000.0
4-Bromofluorobenzene.....	1.00.....	695.00
1,4-Dichlorobutane.....	1.00.....110-56-5.....	57%

.....INTERNAL STANDARD

MDL...METHOD DETECTION LIMIT

BDL...BELOW DETECTION LIMIT

DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE.

.....COMPOUND SCREENED

.....o-XYLENE / p-XYLENE ARE CO-ELUTING (UNDER PRESENT CONDITIONS UNABLE TO DISCERN BETWEEN THE TWO, HENCE THE QUANTITATION IS PLUS OR MINUS THAT VALUE).

PQL...PRACTICAL QUANTITATION LIMIT

PLEASE NOTE: SAMPLE PQLs ARE HIGHLY MATRIX INDEPENDENT. PQLs LISTED HEREIN ARE PROVIDED FOR GUIDANCE AND MAY NOT ALWAYS BE ACHIEVABLE. THEY ARE BASED ON SOIL/SEDIMENT FOR WET WEIGHT. OTHER MATRICES MAY INTRODUCE ADDITIONAL FACTORS: WATER MISCIBLE LIQUID WASTE x50; HIGH LEVEL SOIL & SLUDGES x125; NON-WATER MISCIBLE WASTE x500.

.....SURROGATE STANDARD & RECOVERY

NI....SURROGATE STANDARD NOT INJECTED

SCD...SCREENED

REV. 11/88

SUBURBAN LABORATORIES INC.
4140 LITT DRIVE
HILLSIDE, ILLINOIS 60162

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

FILE NUMBER.....8-10702 D.1.

CLIENT: ROY F. WESTON

IMS FILE NUMBER.....>U9659::D3

SAMPLE: "S58 Lower Lagoon Sludge
Layer 10/27/88 Comp. "

FINAL REPORT BY: SOB

DATE RECEIVED: 10/28/88

Notes: upon visual review of the Total Ion chromatogram, unidentified peaks were observed outside of those parameters which are listed below.

TABLE CCWE F001-F005 SPENT SOLVENTS SCAN

COMPOUND	MDL ug/kg	CAS NUMBER	PQL	SAMPLE CONC. ug/kg (wet weight)
1. Acetone.....		67-64-1	30.00	SCD
2. n-Butyl Alcohol.....		71-36-3		SCD
3. Carbon Disulfide.....	1.00	75-15-0	5.00	BDL
4. Carbon Tetrachloride.....	1.00	56-23-5	5.00	BDL
5. Chlorobenzene.....	1.00	108-90-7	5.00	BDL
6. Cresols.....		1319-77-3		
7. o-Cresol.....		95-48-7		SCD
8. m-Cresol.....		108-39-4		SCD
9. p-Cresol.....		106-44-5		SCD
10. Cresylic acid.....				SCD
11. Cyclohexanone.....		108-94-1		SCD
12. 1,2-Dichlorobenzene.....	1.00	95-50-1	5.00	BDL
13. Ethyl Acetate.....		141-78-6	5.00	SCD
14. Ethylbenzene.....	1.00	100-41-4	5.00	620.0
15. Ethyl Ether.....		60-29-7		SCD
16. Isobutanol.....		78-83-1		SCD
17. Methanol.....		67-56-1	N/A	SCD
18. Methylene Chloride.....	1.00	75-09-2	5.00	BDL
19. Methyl Ethyl Ketone.....	1.00	78-93-3		BDL
20. Methyl Isobutyl Ketone.....		100-10-1		SCD
21. Nitrobenzene.....		98-95-3		SCD
22. Pyridine.....		110-86-1		SCD
23. Tetrachloroethylene.....	1.00	79-01-6	5.00	BDL
24. Toluene.....	1.00	103-88-3	5.00	1630
25. 1,1,1-Trichloroethane.....	1.00	71-55-6	5.00	560
26. 1,1,2-Trichloro-1,2,2-Trifluoroethane.....		76-13-1	5.00	SCD
27. Trichloroethylene.....	1.00	79-01-6	5.00	BDL
28. Trichlorofluoromethane.....	1.00		5.00	BDL

TWO OF 5/L # 8-10702 D.I.

Xylene.....	1330-20-7.....	
m-Xylene.....	1.00.....108-38-3.....	5.00.....7880.0
o-Xylene.....	1.00.....95-47-6.....	3090.0
p-Xylene.....	1.00.....106-42-3.....	3090.0
+4-Bromofluorobenzene....	1.00.....	695.00
+1,4-Dichlorobutane.....	1.00.....110-56-5.....	95%

*.....INTERNAL STANDARD

MDL...METHOD DETECTION LIMIT

BDL...BELOW DETECTION LIMIT

DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE..

*.....COMPOUND SCREENED

**.....o-XYLENE / p-XYLENE ARE CO-ELUTING (UNDER PRESENT CONDITIONS UNABLE TO DISCERN BETWEEN THE TWO, HENCE THE QUANTITATION IS PLUS OR MINUS THAT VALUE).

PQL...PRACTICAL QUANTITATION LIMIT

PLEASE NOTE: SAMPLE PQLs ARE HIGHLY MATRIX INDEPENDENT. PQLs LISTED HEREIN ARE PROVIDED FOR GUIDANCE AND MAY NOT ALWAYS BE ACHIEVABLE. THEY ARE BASED ON SOIL/SEDIMENT FOR WET WEIGHT. OTHER MATRICES MAY INTRODUCE ADDITIONAL FACTORS: WATER MISCIBLE LIQUID WASTE x50; HIGH LEVEL SOIL & SLUDGES x125; NON-WATER MISCIBLE WASTE x500.

+*.....SURROGATE STANDARD % RECOVERY

NI....SURROGATE STANDARD NOT INJECTED

SCD...SCREENED

REV. 11/88

Xylene.....	1330-20-7.....	
m-Xylene.....	1.00.....	108-38-3..... BDL
o-Xylene.....	1.00.....	.95-47-6..... BDL
p-Xylene.....	1.00.....	106-42-3..... BDL
•4-Bromofluorobenzene.....	1.00.....	695.00
•1,4-Dichlorobutane.....	1.00.....	110-56-5..... 98%

+.....INTERNAL STANDARD

MDL...METHOD DETECTION LIMIT

BDL...BELOW DETECTION LIMIT

DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE.

•.....COMPOUND SCREENED

••.....o-XYLENE / p-XYLENE ARE CO-ELUTING (UNDER PRESENT CONDITIONS UNABLE TO DISCERN BETWEEN THE TWO, HENCE THE QUANTITATION IS PLUS OR MINUS THAT VALUE).

++.....SURROGATE STANDARD % RECOVERY

NI.....SURROGATE STANDARD NOT INJECTED

SCD...SCREENED

REV. 11/88

BE TWO OF S/L # 8-10707

Xylene.....		1330-20-7.....	
m-Xylene.....	1.00	108-38-3.....	BOL
o-Xylene.....	1.00	95-47-6.....	BOL
p-Xylene.....	1.00	106-42-3.....	BOL
+4-Bromofluorobenzene.....	1.00		695.00
+1,4-Dichlorobutane.....	1.00	110-56-5.....	95%

*.....INTERNAL STANDARD

MOL...METHOD DETECTION LIMIT

BOL...BELOW DETECTION LIMIT

DETECTION LIMITS LISTED HEREIN ARE MATRIX DEPENDENT AND ARE PROVIDED FOR GUIDANCE, WHICH MAY NOT ALWAYS BE ACHIEVABLE.

*.....COMPOUND SCREENED

**.....o-XYLENE / p-XYLENE ARE CO-ELUTING (UNDER PRESENT CONDITIONS UNABLE TO DISCERN BETWEEN THE TWO, HENCE THE QUANTITATION IS PLUS OR MINUS THAT VALUE).

♦.....SURROGATE STANDARD % RECOVERY

NI....SURROGATE STANDARD NOT INJECTED

SCD...SCREENED

REV. 11/88