Department of Natural Resources

VOLATILE ORGANIC WATER CHEMISTRY — WATER SUPPLY

Form 3300-65 Rev. 5-84

Facility I.D. Number 044004180

County Code 44 County Oneida

Collection Date 05/19/86 (MM/DD/YY)

Time (24 Hr. Clock) 10:00 (HH:MM) Field No. ____

Water System Name Brian Henning Capacitor Oil

P.O. or Municipality Rhinelander P.O. 54501

Sample Source Address 2927 Ground R

(or) Well No. ____

Sampling Point Description Capacitor oil from Frin Morse Pump

Send Report To:
Name: Bill Dahbrine
Address: P.O. Box 818
City, State, Zip Code: Rhinelander Wis 54501

Collected By Charles F. Fitzgerald

Account Number 060081 For Lab Use Only

Water System Type (check ✓ one)
- ☐ M Community — Municipal
- ☐ O Community — Other Than Municipal
- ☐ N Non-Community
- ☒ P Private
- ☐ X Non-Potable Well

Sample Type (check ✓ one) — PCB — Capacitor Oil
- ☐ D Distribution Sample
- ☐ W Raw Water

Analysis Type (check ✓ one)
- ☐ GC/MS Screening
- ☐ Confirmation of GC/MS Screening Sample Number (fill in) ____
- ☒ Other (Follow Up, Misc.

Detection Limits (ug/l) are indicated in brackets [ ]

		Detected	Not Detected	(ug/l)
☐	007 Acrolein[50]	☐	☐	____
☐	009 Acrylonitrile[20]	☐	☐	____
☐	025 Benzene[1.0]	☐	☐	____
☐	046 Bromobenzene[4.0]	☐	☐	____
☐	051 Bromodichloromethane[1.5]	☐	☐	____
☐	053 Bromoform[5.0]	☐	☐	____
☐	055 Bromomethane[50]	☐	☐	____
☐	063 n-Butylacetate[0.5]	☐	☐	____
☐	071 Carbon Disulfide[5.0]	☐	☐	____
☐	073 Carbon Tetrachloride[1.5]	☐	☐	____
☐	083 Chlorobenzene[2.0]	☐	☐	____
☐	087 Chloroethane[20]	☐	☐	____
☐	093 2-Chloroethylvinyl Ether[4.0]	☐	☐	____
☐	095 Chloroform[1.0]	☐	☐	____
☐	108 o-Chlorotoluene[1.0]	☐	☐	____
☐	110 p-Chlorotoluene[1.0]	☐	☐	____
☐	147 Dibromochloromethane[2.0]	☐	☐	____
☐	148 1,2-Dibromo-3-Chloropropane	☐	☐	[not quantified]
☐	153 o-Dichlorobenzene[2.0]	☐	☐	____
☐	155 m-Dichlorobenzene[2.0]	☐	☐	____
☐	157 p-Dichlorobenzene[2.0]	☐	☐	____
☐	165 1,1-Dichloroethane[1.0]	☐	☐	____
☐	167 1,2-Dichloroethane[1.0]	☐	☐	____
☐	169 1,1-Dichloroethylene[1.0]	☐	☐	____
☐	171 1,2-Dichloroethylene[1.0]	☐	☐	____
☐	174 Dichloroiodomethane	☐	☐	[not quantified]
☐	181 1,2-Dichloropropane[1.0]	☐	☐	____
☐	183 cis-1,3-Dichloropropene[2.5]	☐	☐	____
☐	185 trans-1,3-Dichloropropene[2.5]	☐	☐	____
☐	233 Ethylbenzene[1.0]	☐	☐	____
☐	427 Fluorotrichloromethane[1.0]	☐	☐	____
☐	298 Isopropylbenzene[1.0]	☐	☐	____
☐	319 Methylethylketone (MEK)[12]	☐	☐	____
☐	393 Styrene[2.0]	☐	☐	____
☐	396 1,1,1,2-Tetrachloroethane[3.0]	☐	☐	____
☐	397 1,1,2,2-Tetrachloroethane[3.0]	☐	☐	____
☐	399 Tetrachloroethylene[1.0]	☐	☐	____
☐	401 Tetrahydrofuran (THF)[200]	☐	☐	____
☐	411 Toluene[1.0]	☐	☐	____
☐	421 1,1,1-Trichloroethane[1.0]	☐	☐	____
☐	423 1,1,2-Trichloroethane[1.5]	☐	☐	____
☐	425 Trichloroethylene[1.0]	☐	☐	____
☐	428 Trichlorotrifluoroethane[3.0]	☐	☐	____
☐	434 Vinyl Chloride	☐	☐	[not quantified]
☐	437 Xylenes[2.0]	☐	☐	____
☒	(359) PCB 1016	☐	☐	800,000 ug/g
☐	____	☐	☐	____

Comments: Sampled oil from capacitor, clear no color

Date Received and Sample No: 85-6- 4938 MAY 20 1986

Date Reported: MAY 23 1986

R.H. Laessig, PhD, Director
Wisconsin State Laboratory of Hygiene
Madison, Wisconsin 53706

PCB-ARCH-EXT0378409

ORGANIC CHEMISTRY WORKSHEET

Facility I.D. {04400418} Field No. { } Specimen key { 0}
Date Begun {052086} Method { L} Analyst {GT } Batch No. { }
Sample description {CAPACITOR OIL, BRIAN HENNING, 2927 GERMOND, RHINELANDER}
Send report to {ROGER GERHARDT, DNR}
{GEF-II}
City St not WI {MADISON}
collector { FITZGERALD} Primary Station no. {44MISC} Account NO. {060031}
sample type{P} Collect date{051986} Well Number{ } Units{UG/G}
Comments {
Date Received {052086} Lab No. {4938 } Date Reported { }
359 PCB, Arochlor 1016 490 Oil Sample Preparation

Serial dilution:

1016 $\frac{179}{163}$ $\frac{25}{5}$ $\frac{6.48}{1.}$ $\left(\frac{50}{1}\right)\left(\frac{500}{1}\right)$

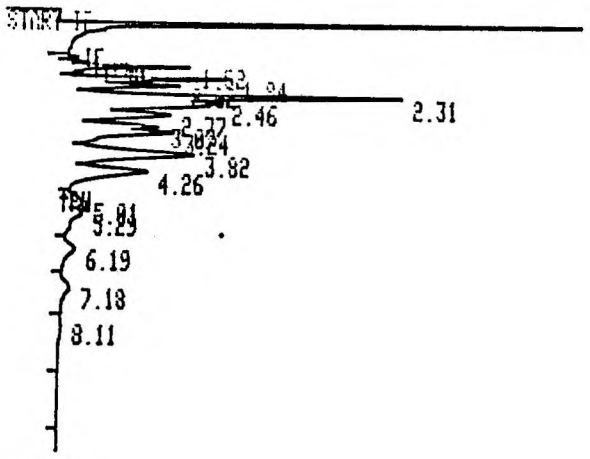
890,000 µg/g

PCB-ARCH-EXT0378410

ID 4938--1.0---5.0-250

ID --1--500

ID --1--5000



STOP

RUN # 1801 MAY/21/86 12:49:56
ID --1--500

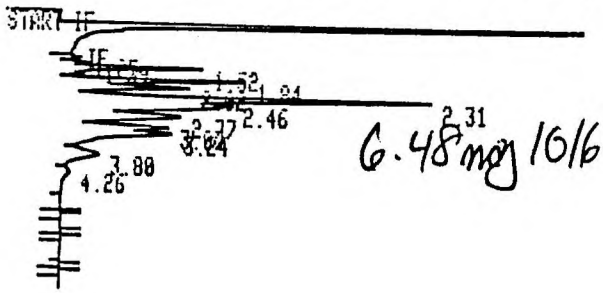
HEIGHT%

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
1.25	22582	PB	0.062	1.219
1.40	22170	BB	0.047	1.197
1.52	204378	BB	0.076	11.032
1.84	260876	PB	0.085	14.082
2.02	144401	BB	0.084	7.795
2.31	455834	BB	0.093	24.605
2.46	69122	BB	0.178	3.731
2.77	117080	BB	0.158	6.320
3.07	71852	BB	0.100	3.879
3.24	85908	BB	0.088	4.637
3.82	207748	BB	0.230	11.214
4.26	126231	BB	0.221	6.814
5.01	13565	BB	0.220	0.732
5.29	10652	BB	0.136	0.575
6.19	21411	BB	0.315	1.156
7.18	16312	BB	0.376	0.881
8.11	2461	BB	0.264	0.133

TOTAL HGHT= 1852600
MUL FACTOR= 1.0000E+00

$\Sigma(12) = 1788 \times 10^3$

ID 1016--3.24-----2.00



6.48 mg/16/6

STOP

RUN # 1800 MAY/21/86 12:40:30
ID 1016--3.24--

HEIGHT%

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
1.25	23256	BB	0.061	1.424
1.39	24137	BB	0.048	1.478
1.52	221571	BB	0.075	13.567
1.84	282160	PB	0.085	17.277
2.02	154826	BB	0.083	9.480
2.31	497058	BB	0.093	30.435
2.46	74656	BB	0.177	4.571
2.77	130706	BB	0.158	8.003
3.07	83644	BB	0.102	5.122
3.24	79998	BB	0.067	4.898
3.80	52488	BB	0.220	3.214
4.26	8657	BB	0.151	0.530

TOTAL HGHT= 1633200
MUL FACTOR= 1.0000E+00

$= \Sigma(12)$

PCB-ARCH-EXT0378411

Department of Natural Resources

VOLATILE ORGANIC WATER CHEMISTRY — WATER SUPPLY

Form 3300-65 Rev. 5-84

Facility I.D. Number: 044004180

County Code: 44 County: Oneida

Collection Date (MM DD YY): 04 10 86

Time (24 Hr. Clock) (HH MM): 14:00 Field No.: 01

Water System Name: Fairbanks Morse Oil. - Brian Hennin

P.O. or Municipality: Rhinelander

Sample Source Address: P.O. Box 818

(or) Well No.:

Sampling Point Description: F.M. pump oil, obtained from Rhinelander Well Drilling 4/10/86

Send Report To:
Name: Bill Dobbins
Address: P.O. Box 818
City, State, Zip Code: Rhinelander Wis. 54501

Collected By: Charles Fitzgerald

Account Number: 05.051 (For Lab Use Only)

Water System Type (check ✓ one)
- ☐ M Community — Municipal
- ☐ O Community — Other Than Municipal
- ☐ N Non-Community
- ☒ P Private
- ☐ X Non-Potable Well

Sample Type (check ✓ one) — PCB Pump Oil.
- ☐ D Distribution Sample
- ☐ W Raw Water

Analysis Type (check ✓ one) — PCB
- ☐ GC/MS Screening
- ☐ Confirmation of GC/MS Screening Sample Number (fill in)
- ☒ Other (Follow Up, Misc.

Detection Limits (ug/l) are indicated in brackets [ ]	Detected	Not Detected	(ug/l)
☐ 007 Acrolein[50]	☐	☐	
☐ 009 Acrylonitrile[20]	☐	☐	
☐ 025 Benzene[1.0]	☐	☐	
☐ 046 Bromobenzene[4.0]	☐	☐	
☐ 051 Bromodichloromethane[1.5]	☐	☐	
☐ 053 Bromoform[5.0]	☐	☐	
☐ 055 Bromomethane[50]	☐	☐	
☐ 063 n-Butylacetate[0.5]	☐	☐	
☐ 071 Carbon Disulfide[5.0]	☐	☐	
☐ 073 Carbon Tetrachloride[1.5]	☐	☐	
☐ 083 Chlorobenzene[2.0]	☐	☐	
☐ 087 Chloroethane[20]	☐	☐	
☐ 093 2-Chloroethylvinyl Ether[4.0]	☐	☐	
☐ 095 Chloroform[1.0]	☐	☐	
☐ 108 o-Chlorotoluene[1.0]	☐	☐	
☐ 110 p-Chlorotoluene[1.0]	☐	☐	
☐ 147 Dibromochloromethane[2.0]	☐	☐	
☐ 148 1,2-Dibromo-3-Chloropropane	☐	☐	[not quantified]
☐ 153 o-Dichlorobenzene[2.0]	☐	☐	
☐ 155 m-Dichlorobenzene[2.0]	☐	☐	
☐ 157 p-Dichlorobenzene[2.0]	☐	☐	
☐ 165 1,1-Dichloroethane[1.0]	☐	☐	
☐ 167 1,2-Dichloroethane[1.0]	☐	☐	
☐ 169 1,1-Dichloroethylene[1.0]	☐	☐	
☐ 171 1,2-Dichloroethylene[1.0]	☐	☐	
☐ 174 Dichloroiodomethane	☐	☐	[not quantified]
☐ 181 1,2-Dichloropropane[1.0]	☐	☐	
☐ 183 cis-1,3-Dichloropropene[2.5]	☐	☐	
☐ 185 trans-1,3-Dichloropropene[2.5]	☐	☐	
☐ 233 Ethylbenzene[1.0]	☐	☐	
☐ 427 Fluorotrichloromethane[1.0]	☐	☐	
☐ 298 Isopropylbenzene[1.0]	☐	☐	
☐ 319 Methylethylketone (MEK)[12]	☐	☐	
☐ 393 Styrene[2.0]	☐	☐	
☐ 396 1,1,1,2-Tetrachloroethane[3.0]	☐	☐	
☐ 397 1,1,2,2-Tetrachloroethane[3.0]	☐	☐	
☐ 399 Tetrachloroethylene[1.0]	☐	☐	
☐ 401 Tetrahydrofuran (THF)[200]	☐	☐	
☐ 411 Toluene[1.0]	☐	☐	
☐ 421 1,1,1-Trichloroethane[1.0]	☐	☐	
☐ 423 1,1,2-Trichloroethane[1.5]	☐	☐	
☐ 425 Trichloroethylene[1.0]	☐	☐	
☐ 428 Trichlorotrifluoroethane[3.0]	☐	☐	
☐ 434 Vinyl Chloride	☐	☐	[not quantified]
☐ 437 Xylenes[2.0]	☐	☐	
☒ (359) PCB's (Aroclor 1016)	☐	☒	9300. ug/g
☐ _____	☐	☐	

Comments: Pump suspected of being Hennings pump from July 1985

Date Received and Sample No.: 85-6- 4598 APR 21 1986

Date Reported: DPD APR 29 1986

R.H. Laessig, PhD, Director
Wisconsin State Laboratory of Hygiene
Madison, Wisconsin 53706

PCB-ARCH-EXT0378412

ORGANIC CHEMISTRY WORKSHEET

Facility I.D. {044000418} Field No. { 01} Specimen key { 0}
Date begun {042186} Method { L} Analyst {GO } Batch No. { }
Sample description {PUMP OIL, RHINELANDER WELL DRILLING, , RHINELANDER}
Send report to {ROGER GERHARDT, DNR}
{GEF II WS/2}
City St not WI {MADISON}
Collector { FITZGERALD} Primary Station no. {44MISC} Account NO. {060031}
Sample type{P} Collect date{041086} Well Number{ } Units{UG/G}
Comments {
Date Received {042186} Lab No. {4596 } Date Reported { }
490 Oil Sample Preparation

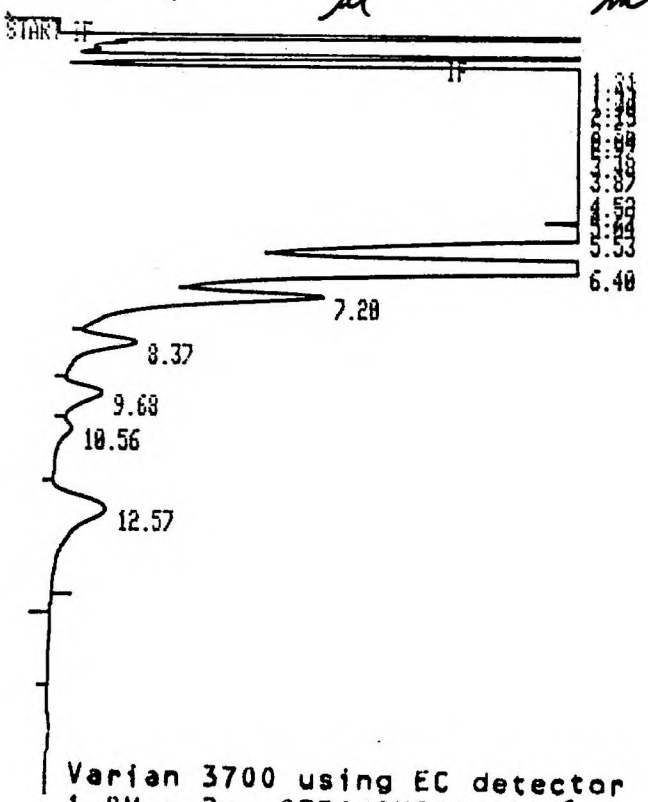
PCB's 1016 found diluted by 100 after method

$$= \left[\frac{601\ \text{sam}}{517\ \text{std}}\right]\left[\frac{100\ \text{mL}}{2.0\ \mu\text{L}}\right]\left[\frac{3.2\ \text{ng std}}{1\ \text{g sam}}\right] = 186 \Rightarrow 186 \times 50 \quad 9{,}300\ \mu\text{g/g}$$

9/1016

PCB-ARCH-EXT0378413

ID 4598---2.0---50.00 µl ml



Varian 3700 using EC detector
1.8M x 2mm SE30/OV210
225 deg C column temp
Argon-Methane carrier 25ml/min
0.5 cm/min chart speed

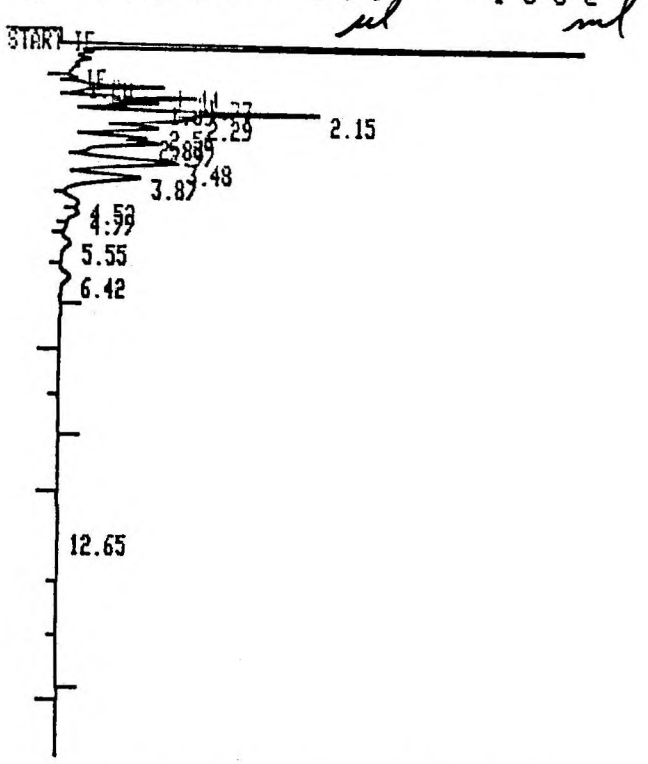
RUN # 1371 APR/23/86 16:57:05
ID 4598---2.0--

HEIGHT%

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
1.21	462630	SPB	0.055	1.337
1.45	6393928	SPB	0.120	18.473
1.74	4806998	SPB	0.095	13.888
1.90	2663028	DSPB	0.087	7.694
2.15	5306678	SPB	0.243	15.332
2.56	2142437	SPB	0.152	6.190
2.84	1260816	SPB	0.102	3.643
2.97	1385547	DSPB	0.081	4.003
3.48	4173542	SPB	0.242	12.058
3.87	3802320	SPB	0.202	10.986
4.52	455327	BB	0.184	1.316
4.77	388209	BB	0.133	1.122
5.04	42518	D BB	0.144	0.123
5.53	554408	BB	0.244	1.602
6.40	621411	BB	0.283	1.795
7.28	75235	BB	0.277	0.217
8.37	27657	BB	0.371	0.080
9.68	17638	BB	0.444	0.051
10.56	4233	BB	0.245	0.012
12.57	25465	BB	0.908	0.074
18.17	1459	I PP	1.018	0.004

TOTAL HGHT= 3.4611E+07
MUL FACTOR= 1.0000E+00

ID 4598---2.0---100 µl ml



Varian 3700 using EC detector
1.8M x 2mm SE30/OV210
225 deg C column temp
Argon-Methane carrier 25ml/min
0.5 cm/min chart speed

RUN # 1394 APR/24/86 16:02:45
ID 4598---2.0--

HEIGHT%

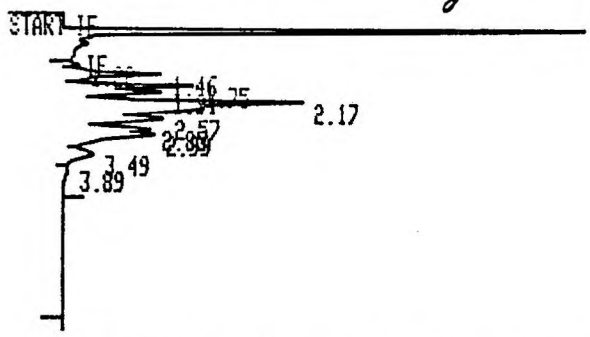
RT	HEIGHT	TYPE	AR/HT	HEIGHT%
1.20	6932	D PB	0.064	0.969
1.44	88144	D BB	0.110	12.325
1.73	94197	BB	0.086	13.172
1.89	49857	D BB	0.082	6.972
2.15	163351	BB	0.099	22.841
~~2.29~~	23296	D BB	0.155	3.258
2.56	48152	BB	0.138	6.733
2.83	26403	BB	0.091	3.692
2.97	33312	D BB	0.067	4.658
3.48	90597	BB	0.209	12.668
~~3.87~~	61194	BB	0.190	8.557
~~4.52~~	6875	BB	0.194	0.961
~~4.77~~	5715	BB	0.142	0.799
~~5.55~~	8155	PB	0.256	1.140
~~6.42~~	8382	BB	0.284	1.172
~~12.65~~	590	PB	0.655	0.083

TOTAL HGHT= 715150 ~ 114207 = 600 943
MUL FACTOR= 1.0000E+00

9 pks

PCB-ARCH-EXT0378414

ID 1016---3.2 @ ng



Varian 3700 using EC detector
ST 1.8M x 2mm SE30/OV210
225 deg C column temp
Argon-Methane carrier 25ml/min
0.5 cm/min chart speed

RUN # 1395 APR/24/86 16:33:17
ID 1016---3.2

HEIGHT%

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
1.22	6660	D PB	0.068	1.289
1.46	82726	D BB	0.116	16.006
1.75	86902	BB	0.089	16.814
1.91	45904	D BB	0.083	8.882
2.17	184305	BB	0.185	35.660
2.57	41292	BB	0.139	7.989
2.85	24439	BB	0.094	4.729
2.99	25829	D BB	0.060	4.997
3.49	18787	BB	0.197	3.635

TOTAL HGHT= 516840
MUL FACTOR= 1.0000E+00

9 ppb

PCB-ARCH-EXT0378415

Department of Natural Resources APR 10 1986

VOLATILE ORGANIC WATER CHEMISTRY — WATER SUPPLY

Form 3300-65 Rev. 5-84

Facility I.D. Number 04400418O

County Code 44 County Oneida

Collection Date 03/01/86 (MM/DD/YY)

Time (24 Hr. Clock) 12:00 Field No. 01

Water System Name Brian Henning

P.O. or Municipality Rhinelander Wis.

Sample Source Address 2927 Germond Rd

(or) Well No.

Sampling Point Description Sample tap off of pressure tank

Send Report To:
Name: Bill Dobbins
Address: P.O. Box 818
City, State, Zip Code: Rhinelander Wi. 54501

Collected By Charles Fitzgerald

Account Number 060031 (For Lab Use Only)

Water System Type (check ✓ one)
- ☐ M Community — Municipal
- ☐ O Community — Other Than Municipal
- ☐ N Non-Community
- ☒ P Private
- ☐ X Non-Potable Well

Sample Type (check ✓ one)
- ☐ D Distribution Sample
- ☒ W Raw Water

Analysis Type (check ✓ one)
- ☐ GC/MS Screening
- ☐ Confirmation of GC/MS Screening Sample Number (fill in)
- ☒ Other (Follow Up, Misc.

PCB oil from pressure tank.

Detection Limits (ug/l) are indicated in brackets [ ]

		Detected	Not Detected	(ug/l)
☐ 007	Acrolein[50]	☐	☐	
☐ 009	Acrylonitrile[20]	☐	☐	
☐ 025	Benzene[1.0]	☐	☐	
☐ 046	Bromobenzene[4.0]	☐	☐	
☐ 051	Bromodichloromethane[1.5]	☐	☐	
☐ 053	Bromoform[5.0]	☐	☐	
☐ 055	Bromomethane[50]	☐	☐	
☐ 063	n-Butylacetate[0.5]	☐	☐	
☐ 071	Carbon Disulfide[5.0]	☐	☐	
☐ 073	Carbon Tetrachloride[1.5]	☐	☐	
☐ 083	Chlorobenzene[2.0]	☐	☐	
☐ 087	Chloroethane[20]	☐	☐	
☐ 093	2-Chloroethylvinyl Ether[4.0]	☐	☐	
☐ 095	Chloroform[1.0]	☐	☐	
☐ 108	o-Chlorotoluene[1.0]	☐	☐	
☐ 110	p-Chlorotoluene[1.0]	☐	☐	
☐ 147	Dibromochloromethane[2.0]	☐	☐	
☐ 148	1,2-Dibromo-3-Chloropropane	☐	☐	[not quantified]
☐ 153	o-Dichlorobenzene[2.0]	☐	☐	
☐ 155	m-Dichlorobenzene[2.0]	☐	☐	
☐ 157	p-Dichlorobenzene[2.0]	☐	☐	
☐ 165	1,1-Dichloroethane[1.0]	☐	☐	
☐ 167	1,2-Dichloroethane[1.0]	☐	☐	
☐ 169	1,1-Dichloroethylene[1.0]	☐	☐	
☐ 171	1,2-Dichloroethylene[1.0]	☐	☐	
☐ 174	Dichloroiodomethane	☐	☐	[not quantified]
☐ 181	1,2-Dichloropropane[1.0]	☐	☐	
☐ 183	cis-1,3-Dichloropropene[2.5]	☐	☐	
☐ 185	trans-1,3-Dichloropropene[2.5]	☐	☐	
☐ 233	Ethylbenzene[1.0]	☐	☐	
☐ 427	Fluorotrichloromethane[1.0]	☐	☐	
☐ 298	Isopropylbenzene[1.0]	☐	☐	
☐ 319	Methylethylketone (MEK)[12]	☐	☐	
☐ 393	Styrene[2.0]	☐	☐	
☐ 396	1,1,1,2-Tetrachloroethane[3.0]	☐	☐	
☐ 397	1,1,2,2-Tetrachloroethane[3.0]	☐	☐	
☐ 399	Tetrachloroethylene[1.0]	☐	☐	
☐ 401	Tetrahydrofuran (THF)[200]	☐	☐	
☐ 411	Toluene[1.0]	☐	☐	
☐ 421	1,1,1-Trichloroethane[1.0]	☐	☐	
☐ 423	1,1,2-Trichloroethane[1.5]	☐	☐	
☐ 425	Trichloroethylene[1.0]	☐	☐	
☐ 428	Trichlorotrifluoroethane[3.0]	☐	☐	
☐ 434	Vinyl Chloride	☐	☐	[not quantified]
☐ 437	Xylenes[2.0]	☐	☐	
☒ (358)	PCB (Aroclor 1016)	☐	☐	9300 ug/g
☐	_____	☐	☐	

Comments: Oil from draining of pressure tank.

Date Received and Sample No. 85-6- 3804 MAR 4 1986

Date Reported DPD MAR 5 1986

R.H. Laessig, PhD, Director
Wisconsin State Laboratory of Hygiene
Madison, Wisconsin 53706

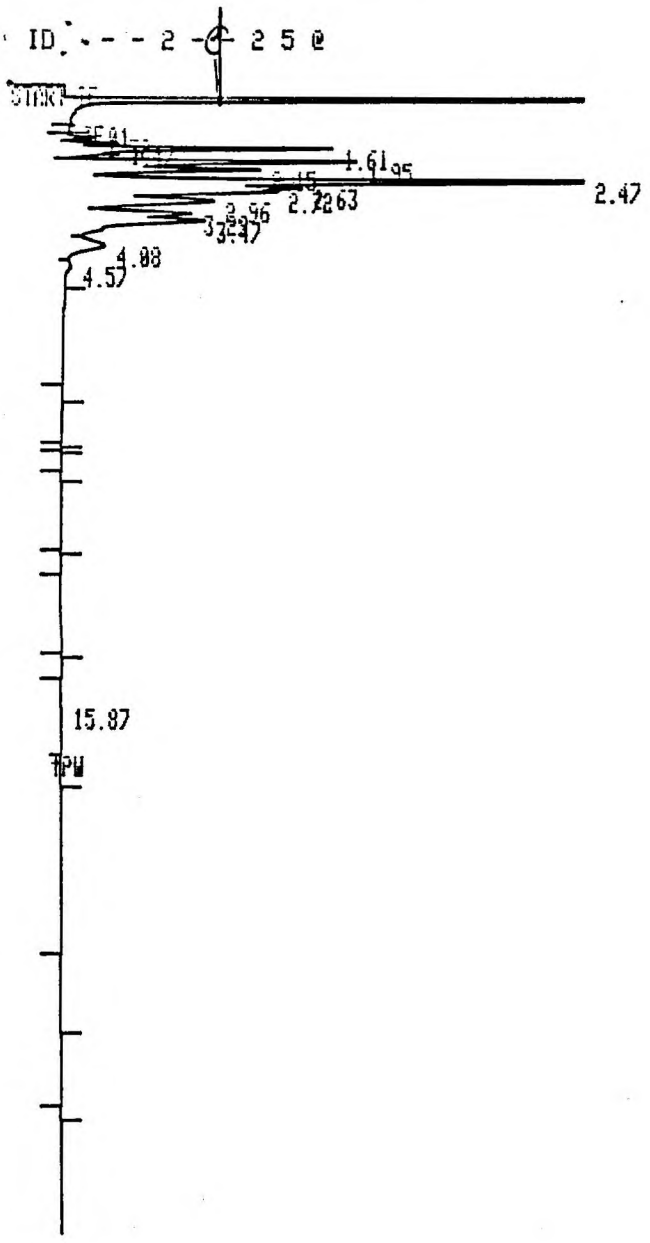
PCB-ARCH-EXT0378416

ORGANIC CHEMISTRY WORKSHEET

Facility I.D. {04400418} Field No. { 01} Specimen key { 0}
Date Begun {030486} Method { L} Analyst { JT} Batch No. { }
Sample description {OIL FROM P.T., BRIAN HENNING, 2927 GERMOND, RHINELANDER}
Send report to {ROGER GERHARDT, DNR}
{GEF-II}
City St not WI {MADISON}
collector { FITZGERALD} Primary Station no. {44MISC} Account NO. {060031}
sample type{P} Collect date{030186} Well Number{ } Units{UG/G}
Comments {
Date Received {030486} Lab No. {3804 } Date Reported { }
359 PCB, Arochlor 1016 490 Oil Sample Preparation

no cleam up, dilution

1016 $\frac{2825}{3078}$ $\frac{250}{4.}$ $\frac{13}{1.}$ np std $\left(\frac{25}{2}\right)$ = 9300 µg/g



STOP

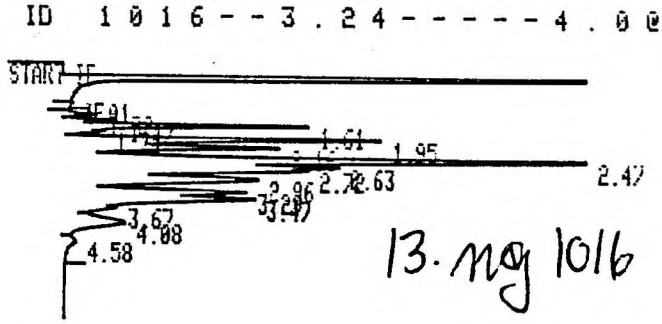
RUN # 796 MAR/04/86 14:26:50
ID --2--25

HEIGHT%

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
1.32	-48443	PB	0.062	1.714
1.47	-64738	BB	0.053	2.290
1.61	-453019	BB	0.078	16.026
1.95	-463387	PB	0.085	16.393
2.15	-241667	BB	0.086	8.549
2.47	-965259	BB	0.097	34.147
2.63	-72287	BB	0.058	2.557
2.72	-54283	BB	0.069	1.920
2.96	-168106	BB	0.167	5.947
3.29	-109757	BB	0.108	3.883
3.47	-119001	BB	0.081	4.210
4.08	-57392	BB	0.236	2.030
4.57	-7844	BB	0.132	0.278
15.87	1576	PB	0.697	0.056

TOTAL HGHT= 2826800
MUL FACTOR= 1.0000E+00

$\Sigma(13) = 2825 \times 10^3$



13. mg 1016

STOP

RUN # 797 MAR/04/86 15:00:04
ID 1016--3.24--

HEIGHT%

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
1.32	-51126	PB	0.063	1.648
1.47	-62684	BB	0.053	2.021
1.61	-398628	BB	0.075	12.851
1.74	15970	BB	0.053	0.515
1.95	-503833	BB	0.085	16.243
2.16	-272021	BB	0.085	8.770
2.47	-965223	BB	0.096	31.118
2.63	-100310	BB	0.061	3.234
2.72	-63979	D BB	0.067	2.063
2.96	-226144	BB	0.170	7.291
3.29	-167357	BB	0.108	5.395
3.47	-169537	BB	0.108	5.466
3.67	7873	BB	0.085	0.254
4.08	-84758	BB	0.236	2.733
4.58	-12399	BB	0.133	0.400

TOTAL HGHT= 3101800
MUL FACTOR= 1.0000E+00

$\Sigma(13) = 3078 \times 10^3$