106986

Appendix E.6
Kiber Analytical Services, Inc.

AR301340

BIOREMEDIATION TREATABILITY STUDY

Volume II, Appendix E.6

Kiber Analytical Services, Inc. performed several analyses in support of Bioremediation Service, Inc. Treatability Study. These tests include Total Petroleum Hydrocarbons (TPH) by EPA Method 8015M, polychlorinated biphenyl's (PCB's) by EPA Method 8080, Toxicity Characteristic Leaching Procedure (TCLP)-PCB's by EPA Methods 1311 and 8080, Volatile Organics by EPA Method 8240, Semi-volatile Organics by EPA Method 8270, TCLP-Volatiles by EPA Methods 1311 and 8240, Semi-volatiles by EPA Methods 1311 and 8270, and Metals by EPA Methods 6010 and 7470.

Kiber performed combinations of the above tests at time zero, week 1, week 2, week 3, week 6, week 9, and week 13. Data is reported on a dry weight basis. Each data sheet contains the sample I. D., the Analysis Method, percent moisture, method detection limit (MDL) and the practical quantition limit (PQL).

KIBER
ENVIRONMENTAL SERVICES, INC.

29 September 1992

Mr. Richard A. Marton
Barr Engineering Company
8300 Norman Center Drive
Minneapolis, MN 55437

Subject: Final Analytical Results for Time Zero
Douglassville Biological Study

Dear Rick:

Kiber Environmental Services, Inc. (Kiber) is pleased to present the final analytical results for the time zero samples of the Douglassville biological study. The samples were submitted to Kiber by Bioremediation Services, Inc. (BSI) on 28 August 1992 via Federal Express. The analyses conducted were in accordance with your telefax to Kiber dated 24 July 1992. Included with this letter are results for the following analyses:

- Total Volatiles
- TCLP Volatiles
- Total Semivolatiles
- TCLP Semivolatiles
- TCLP Lead
- Total PCBs
- TCLP PCBs
- TPH (Volatiles)
- TPH (Semivolatiles)

Please note that the quality assurance information for each of the analyses, as specified in your telefax, is included with each set of analyses. If you should have any questions, please contact me.

Sincerely,
Kiber Environmental Services, Inc.

Stephen J. Zarlinski
Project Manager

Enclosure

512/SZ185

4000 Dekalb Technology Parkway, N.E. ▲ Suite 200 ▲ Atlanta, Georgia 30340-2763
(404) 455-3944 FAX (404) 451-0155

Total Volatiles

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-1

DOUGLASSVILLE
SAMPLE # A-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 16:57, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 15.2 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	2500E	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	3200E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	53E	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	100E	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	880	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	1700	8.6
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	ND	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	200	ND
Toluene	108-88-3	20	98	640	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	400	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	4200	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		102	111
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		103	99
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		107	104

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-2

DOUGLASSVILLE
SAMPLE # A-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 17:23, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 13.9 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	2500E	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	3200E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	64E	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	120	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	1200	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	1900	8.6
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	ND	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	270	ND
Toluene	108-88-3	20	98	860	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	580	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	5300	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		102	111
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		106	99
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		108	104

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-3

DOUGLASSVILLE
SAMPLE # A-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 17:58, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 15.7 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	2000E	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	4500E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	110E	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	970	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	1500	8.6
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	ND	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	210	ND
Toluene	108-88-3	20	98	590	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	370	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	4800	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		109	111
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		108	99
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		109	104

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-7

DOUGLASSVILLE
SAMPLE # B-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 19:48, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 14.3 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	1400E	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	2700E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	110E	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	930	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	1700	8.6
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	ND	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	210	ND
Toluene	108-88-3	20	98	620	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	550	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	4900	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		102	111
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		103	99
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		106	104

E: Estimated, ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301347

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-8

DOUGLASSVILLE
SAMPLE # B-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 20:14, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 14.3 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	3500E	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	7200E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	110E	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	1200	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	45	1400	8.6
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	ND	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	300	ND
Toluene	108-88-3	20	98	930	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	580	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	6400	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		103	111
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		101	99
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		105	104

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-9

DOUGLASSVILLE
SAMPLE # B-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 20:41, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 20.9 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	3500E	ND
Benzene	71-43-2	13	63	76	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	6100E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	110E	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	1200	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	1500	ND
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	ND	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	300	ND
Toluene	108-88-3	20	98	980	ND
1,1,1-Trichloroethane	71-55-6	68	342	93E	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	850	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	4500	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		101	111
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		101	99
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		106	104

E: Estimated, ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301349

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-4

DOUGLASSVILLE
SAMPLE # AC-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 18:26, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 12.9 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	1600E	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	ND	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	110	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	770	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	1600	8.6
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	ND	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	160	ND
Toluene	108-88-3	20	98	490	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	350	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	3400	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		106	111
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		108	99
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		110	104

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-5

DOUGLASSVILLE
SAMPLE # AC-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 18:53, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 15.2 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	ND	ND
Benzene	71-43-2	13	63	53E	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	3200E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	120	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	140	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	1200	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	1800	8.6
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	ND	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	290	ND
Toluene	108-88-3	20	98	880	ND
1,1,1-Trichloroethane	71-55-6	68	342	140	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	580	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	5500	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		107	111
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		109	99
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		112	104

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-6

DOUGLASSVILLE
SAMPLE # AC-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 19:21, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 13.3 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	1500E	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	3700E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	110E	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	1200	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	1700	8.6
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	ND	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	280	ND
Toluene	108-88-3	20	98	870	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	510	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	6600	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		107	111
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		105	99
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		112	104

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-10

DOUGLASSVILLE
SAMPLE # BC-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 21:08, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 16.3 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	ND	ND
Benzene	71-43-2	13	63	65E	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	3000E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	74E	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	112E	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	1300	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	1900	8.6
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	ND	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	310	ND
Toluene	108-88-3	20	98	1000	ND
1,1,1-Trichloroethane	71-55-6	68	342	93E	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	660	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	6700	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		95	111
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		102	99
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		104	104

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-11

DOUGLASSVILLE
SAMPLE # BC-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 21:52, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 19.6 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	ND	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	3300E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	58E	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	110E	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	1400	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	2100	ND
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	ND	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	340	ND
Toluene	108-88-3	20	98	1100	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	720	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	6800	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		99	111
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		105	99
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		103	104

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

AR301354

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-12

DOUGLASSVILLE
SAMPLE # BC-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 22:19, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 15.4 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	2700E	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	6800E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	100E	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	1500	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	1300	ND
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	ND	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	350	ND
Toluene	108-88-3	20	98	1200	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	820	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	7600	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		105	111
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		104	99
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		107	104

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-1

DOUGLASSVILLE
SAMPLE # A-1

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACT(Date/Init) : 9/1/92, EC
ANALYSIS (Date/Time/Init): 9/10/92, 17:53, TAG
Dilution 1.000

Sample Matrix: TCLP Extract
Analysis Method: 8260

TARGET COMPOUND LIST	MDL	PQL	ug/L Concentration	ug/L Blank Conc.	TCLP Blank ug/L
Acetone	12.00	60.0	130	ND	<MDL
Benzene	0.13	0.6	ND	ND	ND
Bromodichloromethane	0.14	0.7	ND	ND	ND
Bromoform	0.11	0.6	ND	ND	ND
Bromomethane	0.22	1.1	ND	ND	ND
2-Butanone (Methyl ethyl ketone)	18.00	90.0	ND	ND	ND
Carbon disulfide	0.14	0.7	ND	ND	ND
Carbon tetrachloride	0.20	1.0	ND	ND	ND
Chlorobenzene	0.19	0.9	ND	ND	ND
Chloroethane	2.00	10.0	ND	ND	ND
Chloroform	0.21	1.0	ND	ND	ND
Chloromethane	2.00	10.0	ND	ND	ND
Dibromochloromethane	0.07	0.4	ND	ND	ND
1,1-Dichloroethane	0.15	0.7	ND	ND	ND
1,2-Dichloroethane	0.10	0.5	ND	ND	ND
1,1-Dichloroethene	0.17	0.9	ND	ND	ND
1,2-Dichloroethene (total)	0.14	0.7	ND	ND	ND
1,2-Dichloropropane	0.12	0.6	ND	ND	ND
cis-1,3-Dichloropropene	0.21	1.1	ND	ND	ND
trans-1,3-Dichloropropene	0.05	0.3	ND	ND	ND
Ethylbenzene	0.11	0.5	3.4	ND	ND
2-Hexanone	2.00	10.0	ND	ND	ND
Methylene chloride	0.90	4.5	4.7	5.8	5.8
4-Methyl-2-pentanone (MIBK)	2.00	10.0	38	ND	35
Styrene	0.14	0.7	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.17	0.9	ND	ND	ND
Tetrachloroethene	0.12	0.6	ND	ND	ND
Toluene	0.20	1.0	5.3	ND	ND
1,1,1-Trichloroethane	0.68	3.4	ND	ND	ND
1,1,2-Trichloroethane	0.12	0.6	ND	ND	ND
Trichloroethene	0.21	1.0	4.0	ND	ND
Vinyl acetate	0.14	0.7	ND	ND	ND
Vinyl chloride	2.00	10.0	ND	ND	ND
Xylenes (total)	0.22	1.1	16	ND	ND
SURROGATES (% RECOVERY)					
1,2-Dichloroethane-d4	[OK=76-114]		117	104	114
Toluene-d8	[OK=88-110]		105	104	109
Bromofluorobenzene	[OK=86-115]		108	106	108

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Mary Bryant

AR301356

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-2

DOUGLASSVILLE
SAMPLE # A-2

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACT(Date/Init) : 9/1/92, EC
ANALYSIS (Date/Time/Init): 9/10/92, 19:18, TAG
Dilution 1.000

Sample Matrix: TCLP Extract
Analysis Method: 8260

TARGET COMPOUND LIST	MDL	PQL	ug/L Concentration	ug/L Blank Conc.	TCLP Blank ug/L
Acetone	12.00	60.0	94	ND	<MDL
Benzene	0.13	0.6	0.7	ND	ND
Bromodichloromethane	0.14	0.7	ND	ND	ND
Bromoform	0.11	0.6	ND	ND	ND
Bromomethane	0.22	1.1	ND	ND	ND
2-Butanone (Methyl ethyl ketone)	18.00	90.0	ND	ND	ND
Carbon disulfide	0.14	0.7	ND	ND	ND
Carbon tetrachloride	0.20	1.0	ND	ND	ND
Chlorobenzene	0.19	0.9	ND	ND	ND
Chloroethane	2.00	10.0	ND	ND	ND
Chloroform	0.21	1.0	ND	ND	ND
Chloromethane	2.00	10.0	ND	ND	ND
Dibromochloromethane	0.07	0.4	ND	ND	ND
1,1-Dichloroethane	0.15	0.7	ND	ND	ND
1,2-Dichloroethane	0.10	0.5	ND	ND	ND
1,1-Dichloroethene	0.17	0.9	ND	ND	ND
1,2-Dichloroethene (total)	0.14	0.7	ND	ND	ND
1,2-Dichloropropane	0.12	0.6	ND	ND	ND
cis-1,3-Dichloropropene	0.21	1.1	ND	ND	ND
trans-1,3-Dichloropropene	0.05	0.3	ND	ND	ND
Ethylbenzene	0.11	0.5	3.8	ND	ND
2-Hexanone	2.00	10.0	ND	ND	ND
Methylene chloride	0.90	4.5	5.9	5.8	5.8
4-Methyl-2-pentanone (MIBK)	2.00	10.0	35	ND	35
Styrene	0.14	0.7	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.17	0.9	ND	ND	ND
Tetrachloroethene	0.12	0.6	ND	ND	ND
Toluene	0.20	1.0	7.1	ND	ND
1,1,1-Trichloroethane	0.68	3.4	ND	ND	ND
1,1,2-Trichloroethane	0.12	0.6	ND	ND	ND
Trichloroethene	0.21	1.0	5.3	ND	ND
Vinyl acetate	0.14	0.7	ND	ND	ND
Vinyl chloride	2.00	10.0	ND	ND	ND
Xylenes (total)	0.22	1.1	19	ND	ND
SURROGATES (% RECOVERY)					
1,2-Dichloroethane-d4	[OK=76-114]		126	104	114
Toluene-d8	[OK=88-110]		103	104	109
Bromofluorobenzene	[OK=86-115]		108	106	108

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Gary Bugenski

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-3

DOUGLASSVILLE
SAMPLE # A-3

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACT(Date/Init) : 9/1/92, EC
ANALYSIS (Date/Time/Init): 9/10/92, 19:46, TAG
Dilution 1.000

Sample Matrix: TCLP Extract
Analysis Method: 8260

TARGET COMPOUND LIST	MDL	PQL	ug/L Concentration	ug/L Blank Conc.	TCLP Blank ug/L
Acetone	12.00	60.0	130	ND	<MDL
Benzene	0.13	0.6	ND	ND	ND
Bromodichloromethane	0.14	0.7	ND	ND	ND
Bromoform	0.11	0.6	ND	ND	ND
Bromomethane	0.22	1.1	ND	ND	ND
2-Butanone (Methyl ethyl ketone)	18.00	90.0	ND	ND	ND
Carbon disulfide	0.14	0.7	ND	ND	ND
Carbon tetrachloride	0.20	1.0	ND	ND	ND
Chlorobenzene	0.19	0.9	ND	ND	ND
Chloroethane	2.00	10.0	ND	ND	ND
Chloroform	0.21	1.0	ND	ND	ND
Chloromethane	2.00	10.0	ND	ND	ND
Dibromochloromethane	0.07	0.4	ND	ND	ND
1,1-Dichloroethane	0.15	0.7	ND	ND	ND
1,2-Dichloroethane	0.10	0.5	ND	ND	ND
1,1-Dichloroethene	0.17	0.9	ND	ND	ND
1,2-Dichloroethene (total)	0.14	0.7	ND	ND	ND
1,2-Dichloropropane	0.12	0.6	ND	ND	ND
cis-1,3-Dichloropropene	0.21	1.1	ND	ND	ND
trans-1,3-Dichloropropene	0.05	0.3	ND	ND	ND
Ethylbenzene	0.11	0.5	3.2	ND	ND
2-Hexanone	2.00	10.0	ND	ND	ND
Methylene chloride	0.90	4.5	5.3	5.8	5.8
4-Methyl-2-pentanone (MIBK)	2.00	10.0	37	ND	35
Styrene	0.14	0.7	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.17	0.9	ND	ND	ND
Tetrachloroethene	0.12	0.6	ND	ND	ND
Toluene	0.20	1.0	5.5	ND	ND
1,1,1-Trichloroethane	0.68	3.4	ND	ND	ND
1,1,2-Trichloroethane	0.12	0.6	ND	ND	ND
Trichloroethene	0.21	1.0	3.3	ND	ND
Vinyl acetate	0.14	0.7	ND	ND	ND
Vinyl chloride	2.00	10.0	ND	ND	ND
Xylenes (total)	0.22	1.1	17	ND	ND
SURROGATES (% RECOVERY)					
1,2-Dichloroethane-d4	[OK=76-114]		120	104	114
Toluene-d8	[OK=88-110]		106	104	109
Bromofluorobenzene	[OK=86-115]		105	106	108

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Stacey Bergquist

AR301358

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841

DOUGLASSVILLE

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 22:46, TAG
Sample Matrix: SOLID
Analysis Method: 8260

MATRIX SPIKE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery
Benzene	71-43-2	66- 142	92
Chlorobenzene	108-90-7	60- 133	113
1,1-Dichloroethene	75-35-4	59- 172	45
Toluene	108-88-3	59- 139	126
Trichloroethene	79-01-6	62- 137	109
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]	102
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]	108
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]	108

ANALYSIS (Date/Time/Init): 9/3/92, 23:13, TAG

MATRIX SPIKE DUPLICATE	CAS Number	QC LIMITS % Recovery	Actual MSD % Recovery	% RPD
Benzene	71-43-2	66- 142	90	2.1
Chlorobenzene	108-90-7	60- 133	110	1.8
1,1-Dichloroethene	75-35-4	59- 172	34	27.8
Toluene	108-88-3	59- 139	121	4.0
Trichloroethene	79-01-6	62- 137	105	3.7
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]	109	
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]	106	
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]	112	

Michael Hayes

TCLP Volatiles

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-7

DOUGLASSVILLE
SAMPLE # B-1

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACT(Date/Init) : 9/1/92, EC
ANALYSIS (Date/Time/Init): 9/10/92, 20:14, TAG
Dilution 1.000

Sample Matrix: TCLP Extract
Analysis Method: 8260

TARGET COMPOUND LIST	MDL	PQL	ug/L Concentration	ug/L Blank Conc.	TCLP Blank ug/L
Acetone	12.00	60.0	100	ND	<MDL
Benzene	0.13	0.6	ND	ND	ND
Bromodichloromethane	0.14	0.7	ND	ND	ND
Bromoform	0.11	0.6	ND	ND	ND
Bromomethane	0.22	1.1	ND	ND	ND
2-Butanone (Methyl ethyl ketone)	18.00	90.0	ND	ND	ND
Carbon disulfide	0.14	0.7	ND	ND	ND
Carbon tetrachloride	0.20	1.0	ND	ND	ND
Chlorobenzene	0.19	0.9	ND	ND	ND
Chloroethane	2.00	10.0	ND	ND	ND
Chloroform	0.21	1.0	ND	ND	ND
Chloromethane	2.00	10.0	ND	ND	ND
Dibromochloromethane	0.07	0.4	ND	ND	ND
1,1-Dichloroethane	0.15	0.7	ND	ND	ND
1,2-Dichloroethane	0.10	0.5	ND	ND	ND
1,1-Dichloroethene	0.17	0.9	ND	ND	ND
1,2-Dichloroethene (total)	0.14	0.7	ND	ND	ND
1,2-Dichloropropane	0.12	0.6	ND	ND	ND
cis-1,3-Dichloropropene	0.21	1.1	ND	ND	ND
trans-1,3-Dichloropropene	0.05	0.3	ND	ND	ND
Ethylbenzene	0.11	0.5	3.6	ND	ND
2-Hexanone	2.00	10.0	ND	ND	ND
Methylene chloride	0.90	4.5	6.2	5.8	5.8
4-Methyl-2-pentanone (MIBK)	2.00	10.0	41	ND	35
Styrene	0.14	0.7	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.17	0.9	ND	ND	ND
Tetrachloroethene	0.12	0.6	ND	ND	ND
Toluene	0.20	1.0	6.7	ND	ND
1,1,1-Trichloroethane	0.68	3.4	ND	ND	ND
1,1,2-Trichloroethane	0.12	0.6	ND	ND	ND
Trichloroethene	0.21	1.0	5.8	ND	ND
Vinyl acetate	0.14	0.7	ND	ND	ND
Vinyl chloride	2.00	10.0	ND	ND	ND
Xylenes (total)	0.22	1.1	21	ND	ND
SURROGATES (% RECOVERY)					
1,2-Dichloroethane-d4	[OK=76-114]		116	104	114
Toluene-d8	[OK=88-110]		103	104	109
Bromofluorobenzene	[OK=86-115]		107	106	108

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Gary Burgess

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-8

DOUGLASSVILLE
SAMPLE # B-2

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACT(Date/Init) : 9/1/92, EC
ANALYSIS (Date/Time/Init): 9/10/92, 20:42, TAG
Dilution 1.000

Sample Matrix: TCLP Extract
Analysis Method: 8260

TARGET COMPOUND LIST	MDL	PQL	ug/L Concentration	ug/L Blank Conc.	TCLP Blank ug/L
Acetone	12.00	60.0	110	ND	<MDL
Benzene	0.13	0.6	ND	ND	ND
Bromodichloromethane	0.14	0.7	ND	ND	ND
Bromoform	0.11	0.6	ND	ND	ND
Bromomethane	0.22	1.1	ND	ND	ND
2-Butanone (Methyl ethyl ketone)	18.00	90.0	ND	ND	ND
Carbon disulfide	0.14	0.7	ND	ND	ND
Carbon tetrachloride	0.20	1.0	ND	ND	ND
Chlorobenzene	0.19	0.9	ND	ND	ND
Chloroethane	2.00	10.0	ND	ND	ND
Chloroform	0.21	1.0	ND	ND	ND
Chloromethane	2.00	10.0	ND	ND	ND
Dibromochloromethane	0.07	0.4	ND	ND	ND
1,1-Dichloroethane	0.15	0.7	ND	ND	ND
1,2-Dichloroethane	0.10	0.5	ND	ND	ND
1,1-Dichloroethene	0.17	0.9	ND	ND	ND
1,2-Dichloroethene (total)	0.14	0.7	ND	ND	ND
1,2-Dichloropropane	0.12	0.6	ND	ND	ND
cis-1,3-Dichloropropene	0.21	1.1	ND	ND	ND
trans-1,3-Dichloropropene	0.05	0.3	ND	ND	ND
Ethylbenzene	0.11	0.5	4.2	ND	ND
2-Hexanone	2.00	10.0	ND	ND	ND
Methylene chloride	0.90	4.5	5.5	5.8	5.8
4-Methyl-2-pentanone (MIBK)	2.00	10.0	39	ND	35
Styrene	0.14	0.7	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.17	0.9	ND	ND	ND
Tetrachloroethene	0.12	0.6	1.1	ND	ND
Toluene	0.20	1.0	8.2	ND	ND
1,1,1-Trichloroethane	0.68	3.4	0.8E	ND	ND
1,1,2-Trichloroethane	0.12	0.6	ND	ND	ND
Trichloroethene	0.21	1.0	5.9	ND	ND
Vinyl acetate	0.14	0.7	ND	ND	ND
Vinyl chloride	2.00	10.0	ND	ND	ND
Xylenes (total)	0.22	1.1	26	ND	ND
SURROGATES (% RECOVERY)					
1,2-Dichloroethane-d4	[OK=76-114]		108	104	114
Toluene-d8	[OK=88-110]		107	104	109
Bromofluorobenzene	[OK=86-115]		111	106	108

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Gary Burgess

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20841-9

DOUGLASSVILLE
SAMPLE # B-3

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACT(Date/Init) : 9/1/92, EC
ANALYSIS (Date/Time/Init): 9/10/92, 21:09, TAG
Dilution 1.000

Sample Matrix: TCLP Extract
Analysis Method: 8260

TARGET COMPOUND LIST	MDL	PQL	ug/L Concentration	ug/L Blank Conc.	TCLP Blank ug/L
Acetone	12.00	60.0	130	ND	<MDL
Benzene	0.13	0.6	3.9	ND	ND
Bromodichloromethane	0.14	0.7	ND	ND	ND
Bromoform	0.11	0.6	ND	ND	ND
Bromomethane	0.22	1.1	ND	ND	ND
2-Butanone (Methyl ethyl ketone)	18.00	90.0	40	ND	ND
Carbon disulfide	0.14	0.7	ND	ND	ND
Carbon tetrachloride	0.20	1.0	ND	ND	ND
Chlorobenzene	0.19	0.9	ND	ND	ND
Chloroethane	2.00	10.0	ND	ND	ND
Chloroform	0.21	1.0	ND	ND	ND
Chloromethane	2.00	10.0	ND	ND	ND
Dibromochloromethane	0.07	0.4	ND	ND	ND
1,1-Dichloroethane	0.15	0.7	3.2	ND	ND
1,2-Dichloroethane	0.10	0.5	1.8	ND	ND
1,1-Dichloroethene	0.17	0.9	ND	ND	ND
1,2-Dichloroethene (total)	0.14	0.7	ND	ND	ND
1,2-Dichloropropane	0.12	0.6	ND	ND	ND
cis-1,3-Dichloropropene	0.21	1.1	ND	ND	ND
trans-1,3-Dichloropropene	0.05	0.3	ND	ND	ND
Ethylbenzene	0.11	0.5	6.3	ND	ND
2-Hexanone	2.00	10.0	ND	ND	ND
Methylene chloride	0.90	4.5	6.1	5.8	5.8
4-Methyl-2-pentanone (MIBK)	2.00	10.0	57	ND	35
Styrene	0.14	0.7	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.17	0.9	ND	ND	ND
Tetrachloroethene	0.12	0.6	1.5	ND	ND
Toluene	0.20	1.0	15	ND	ND
1,1,1-Trichloroethane	0.68	3.4	3.5	ND	ND
1,1,2-Trichloroethane	0.12	0.6	ND	ND	ND
Trichloroethene	0.21	1.0	15	ND	ND
Vinyl acetate	0.14	0.7	ND	ND	ND
Vinyl chloride	2.00	10.0	ND	ND	ND
Xylenes (total)	0.22	1.1	26	ND	ND
SURROGATES (% RECOVERY)					
1,2-Dichloroethane-d4	[OK=76-114]		112	104	114
Toluene-d8	[OK=88-110]		105	104	109
Bromofluorobenzene	[OK=86-115]		106	106	108

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Nancy Bugquist

AR301363

KIBER Environmental Services

VOLATILE MATRIX SPIKE RESULTS

LAB SAMPLE # 20841

DOUGLASSVILLE
TCLP EXTRACT

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/10/92, 18:22, TAG
Sample Matrix: WATER
Analysis Method: 8260

REPORTED: 9/21/92

MATRIX SPIKE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery
Benzene	71-43-2	76- 127	108
Chlorobenzene	108-90-7	75- 130	101
1,1-Dichloroethene	75-35-4	61- 145	95
Toluene	108-88-3	76- 125	107
Trichloroethene	79-01-6	71- 120	101
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=76-114]	119
Toluene-d8 (surrogate)	% Recovery	[OK=88-110]	104
Bromofluorobenzene (surrogate)	% Recovery	[OK=86-115]	107

Mary Burgess

Total Semivolatiles

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-1

DOUGLASSVILLE
SAMPLE # A-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/14/92, 20:01, TAG
EXTRACTION (Date / Init) : 9/1/92,ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 17.2

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	4.0	20.0	ND	ND
Acenaphthylene	208-96-8	5.0	21.0	ND	ND
Anthracene	120-12-7	3.0	13.0	ND	ND
Benz[a]anthracene	56-55-3	2.0	10.0	6,100E	ND
Benzo[b]fluoranthene	205-99-2	3.0	12.0	ND	ND
Benzo[k]fluoranthene	207-08-9	2.0	8.0	ND	ND
Benzoic acid	65-85-0	65.0	323.0	ND	ND
Benzo[ghi]perylene	191-24-2	2.0	9.0	ND	ND
Benzo[a]pyrene	50-32-8	2.0	10.0	ND	ND
Benzyl alcohol	100-51-6	3.0	15.0	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	3.0	12.0	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3.0	14.0	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	5.0	21.0	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	4.0	20.0	ND	ND
4-Bromophenyl phenyl ether	101-55-3	4.0	16.0	ND	ND
Butyl benzyl phthalate	85-68-7	5.0	21.0	ND	ND
4-Chloroaniline	106-47-8	3.0	12.0	ND	ND
4-Chloro-3-methylphenol	59-50-7	6.0	27.0	ND	ND
2-Chloronaphthalene	91-58-7	3.0	11.0	ND	ND
2-Chlorophenol	95-57-8	2.0	10.0	ND	ND
4-Chlorophenyl phenyl ether	59-50-7	6.0	27.0	ND	ND
Chrysene	218-01-9	4.0	19.0	17,000E	ND
Dibenz[a,h]anthracene	53-70-3	2.0	9.0	ND	ND
Dibenzofuran	132-64-9	5.0	25.0	ND	ND
Di-n-butylphthalate	84-74-2	3.0	12.0	ND	ND
1,2-Dichlorobenzene	95-50-1	2.0	10.0	ND	ND
1,3-Dichlorobenzene	541-73-1	3.0	13.0	ND	ND
1,4-Dichlorobenzene	106-46-7	3.0	12.0	ND	ND
3,3'-Dichlorobenzidine	91-94-1	7.0	33.0	ND	ND
2,4-Dichlorophenol	120-83-2	5.0	21.0	ND	ND
Diethylphthalate	84-66-2	4.0	20.0	ND	ND
2,4-Dimethylphenol	105-67-9	6.0	27.0	ND	ND
Dimethylphthalate	131-11-3	4.0	16.0	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	96.0	477.0	ND	ND
2,4-Dinitrophenol	51-28-5	152.0	757.0	ND	ND
2,4-Dinitrotoluene	121-14-2	26.0	128.0	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-1

DOUGLASSVILLE
SAMPLE # A-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/14/92, 20:01, TAG
EXTRACTION (Date / Init) : 9/1/92,ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 17.2

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,6-Dinitrotoluene	606-20-2	18.0	88.0	ND	ND
Di-n-octyl phthalate	117-84-0	7.0	32.0	ND	ND
Fluoranthene	206-44-0	2.0	8.0	10,000E	ND
Fluorene	7782-41-4	5.0	25.0	ND	ND
Hexachlorobenzene	118-74-1	6.0	27.0	ND	ND
Hexachlorobutadiene	87-68-3	4.0	17.0	ND	ND
Hexachlorocyclopentadiene	77-47-4	18.0	88.0	ND	ND
Hexachloroethane	67-72-1	7.0	31.0	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	3.0	13.0	ND	ND
Isophorone	78-59-1	3.0	15.0	ND	ND
2-Methylnaphthalene	91-57-6	2.0	10.0	58,000	ND
2-Methylphenol	95-48-7	3.0	13.0	ND	ND
4-Methylphenol	106-44-5	4.0	15.0	ND	ND
Naphthalene	91-20-3	2.0	6.0	44,000	ND
2-Nitroaniline	88-74-4	5.0	22.0	ND	ND
3-Nitroaniline	99-09-2	17.0	85.0	ND	ND
4-Nitroaniline	100-01-6	9.0	42.0	ND	ND
Nitrobenzene	98-95-3	3.0	15.0	ND	ND
2-Nitrophenol	88-75-5	6.0	28.0	ND	ND
4-Nitrophenol	100-01-6	65.0	322.0	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2.0	8.0	ND	ND
N-Nitrosodi-n-propylamine	621-64-7	4.0	20.0	ND	ND
Pentachlorophenol	87-86-5	77.0	386.0	ND	ND
Phenanthrene	85-01-8	2.0	8.0	38,000	ND
Phenol	108-95-2	3.0	14.0	ND	ND
Pyrene	129-00-0	5.0	24.0	ND	ND
1,2,4-Trichlorobenzene	120-82-1	4.0	19.0	ND	ND
2,4,5-Trichlorophenol	95-95-4	14.0	70.0	ND	ND
2,4,6-Trichlorophenol	88-06-2	21.0	105.0	ND	ND
2-Fluorophenol (surrogate std)	% Recovery	[OK=25-121]		69	101
Phenol-d6 (surrogate std)	% Recovery	[OK=24-113]		84	93
Nitrobenzene-d5 (surrogate std)	% Recovery	[OK=23-120]		69	91
2-Fluorobiphenyl (surrogate std)	% Recovery	[OK=30-115]		102	96
2,4,6-Tribromophenol (surrogate std)	% Recovery	[OK=19-122]		93	102
Terphenyl-d14 (surrogate std)	% Recovery	[OK=18-137]		96	80

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as diphenylamine

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-2

DOUGLASSVILLE
SAMPLE # A-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 16:31, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 17.4

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	4.0	20.0	ND	ND
Acenaphthylene	208-96-8	5.0	21.0	ND	ND
Anthracene	120-12-7	3.0	13.0	ND	ND
Benz[a]anthracene	56-55-3	2.0	10.0	8,900E	ND
Benzo[b]fluoranthene	205-99-2	3.0	12.0	ND	ND
Benzo[k]fluoranthene	207-08-9	2.0	8.0	ND	ND
Benzoic acid	65-85-0	65.0	323.0	ND	ND
Benzo[ghi]perylene	191-24-2	2.0	9.0	8,800E	ND
Benzo[a]pyrene	50-32-8	2.0	10.0	ND	ND
Benzyl alcohol	100-51-6	3.0	15.0	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	3.0	12.0	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3.0	14.0	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	5.0	21.0	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	4.0	20.0	ND	ND
4-Bromophenyl phenyl ether	101-55-3	4.0	16.0	ND	ND
Butyl benzyl phthalate	85-68-7	5.0	21.0	ND	ND
4-Chloroaniline	106-47-8	3.0	12.0	ND	ND
4-Chloro-3-methylphenol	59-50-7	6.0	27.0	ND	ND
2-Chloronaphthalene	91-58-7	3.0	11.0	ND	ND
2-Chlorophenol	95-57-8	2.0	10.0	ND	ND
4-Chlorophenyl phenyl ether	59-50-7	6.0	27.0	ND	ND
Chrysene	218-01-9	4.0	19.0	12,000E	ND
Dibenz[a,h]anthracene	53-70-3	2.0	9.0	ND	ND
Dibenzofuran	132-64-9	5.0	25.0	ND	ND
Di-n-butylphthalate	84-74-2	3.0	12.0	ND	ND
1,2-Dichlorobenzene	95-50-1	2.0	10.0	ND	ND
1,3-Dichlorobenzene	541-73-1	3.0	13.0	ND	ND
1,4-Dichlorobenzene	106-46-7	3.0	12.0	ND	ND
3,3'-Dichlorobenzidine	91-94-1	7.0	33.0	ND	ND
2,4-Dichlorophenol	120-83-2	5.0	21.0	ND	ND
Diethylphthalate	84-66-2	4.0	20.0	ND	ND
2,4-Dimethylphenol	105-67-9	6.0	27.0	ND	ND
Dimethylphthalate	131-11-3	4.0	16.0	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	96.0	477.0	ND	ND
2,4-Dinitrophenol	51-28-5	152.0	757.0	ND	ND
2,4-Dinitrotoluene	121-14-2	26.0	128.0	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-2

DOUGLASSVILLE
SAMPLE # A-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 16:31, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 17.4

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,6-Dinitrotoluene	606-20-2	18.0	88.0	ND	ND
Di-n-octyl phthalate	117-84-0	7.0	32.0	ND	ND
Fluoranthene	206-44-0	2.0	8.0	7,500E	ND
Fluorene	7782-41-4	5.0	25.0	ND	ND
Hexachlorobenzene	118-74-1	6.0	27.0	ND	ND
Hexachlorobutadiene	87-68-3	4.0	17.0	ND	ND
Hexachlorocyclopentadiene	77-47-4	18.0	88.0	ND	ND
Hexachloroethane	67-72-1	7.0	31.0	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	3.0	13.0	ND	ND
Isophorone	78-59-1	3.0	15.0	ND	ND
2-Methylnaphthalene	91-57-6	2.0	10.0	53,000	ND
2-Methylphenol	95-48-7	3.0	13.0	ND	ND
4-Methylphenol	106-44-5	4.0	15.0	ND	ND
Naphthalene	91-20-3	2.0	6.0	35,000	ND
2-Nitroaniline	88-74-4	5.0	22.0	ND	ND
3-Nitroaniline	99-09-2	17.0	85.0	ND	ND
4-Nitroaniline	100-01-6	9.0	42.0	ND	ND
Nitrobenzene	98-95-3	3.0	15.0	ND	ND
2-Nitrophenol	88-75-5	6.0	28.0	ND	ND
4-Nitrophenol	100-01-6	65.0	322.0	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2.0	8.0	ND	ND
N-Nitrosodi-n-propylamine	621-64-7	4.0	20.0	ND	ND
Pentachlorophenol	87-86-5	77.0	386.0	ND	ND
Phenanthrene	85-01-8	2.0	8.0	26,000	ND
Phenol	108-95-2	3.0	14.0	ND	ND
Pyrene	129-00-0	5.0	24.0	ND	ND
1,2,4-Trichlorobenzene	120-82-1	4.0	19.0	ND	ND
2,4,5-Trichlorophenol	95-95-4	14.0	70.0	ND	ND
2,4,6-Trichlorophenol	88-06-2	21.0	105.0	ND	ND
2-Fluorophenol (surrogate std)	% Recovery	[OK=25-121]		97	101
Phenol-d6 (surrogate std)	% Recovery	[OK=24-113]		105	93
Nitrobenzene-d5 (surrogate std)	% Recovery	[OK=23-120]		83	91
2-Fluorobiphenyl (surrogate std)	% Recovery	[OK=30-115]		125	96
2,4,6-Tribromophenol (surrogate std)	% Recovery	[OK=19-122]		113	102
Terphenyl-d14 (surrogate std)	% Recovery	[OK=18-137]		120	80

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as diphenylamine

Michael Hayes

AR301369

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-3

DOUGLASSVILLE
SAMPLE # A-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 17:21, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 17.5

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	4.0	20.0	ND	ND
Acenaphthylene	208-96-8	5.0	21.0	ND	ND
Anthracene	120-12-7	3.0	13.0	ND	ND
Benz[a]anthracene	56-55-3	2.0	10.0	9,500E	ND
Benzo[b]fluoranthene	205-99-2	3.0	12.0	ND	ND
Benzo[k]fluoranthene	207-08-9	2.0	8.0	ND	ND
Benzoic acid	65-85-0	65.0	323.0	ND	ND
Benzo[ghi]perylene	191-24-2	2.0	9.0	6,000E	ND
Benzo[a]pyrene	50-32-8	2.0	10.0	ND	ND
Benzyl alcohol	100-51-6	3.0	15.0	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	3.0	12.0	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3.0	14.0	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	5.0	21.0	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	4.0	20.0	ND	ND
4-Bromophenyl phenyl ether	101-55-3	4.0	16.0	ND	ND
Butyl benzyl phthalate	85-68-7	5.0	21.0	ND	ND
4-Chloroaniline	106-47-8	3.0	12.0	ND	ND
4-Chloro-3-methylphenol	59-50-7	6.0	27.0	ND	ND
2-Chloronaphthalene	91-58-7	3.0	11.0	ND	ND
2-Chlorophenol	95-57-8	2.0	10.0	ND	ND
4-Chlorophenyl phenyl ether	59-50-7	6.0	27.0	ND	ND
Chrysene	218-01-9	4.0	19.0	12,000E	ND
Dibenz[a,h]anthracene	53-70-3	2.0	9.0	ND	ND
Dibenzofuran	132-64-9	5.0	25.0	ND	ND
Di-n-butylphthalate	84-74-2	3.0	12.0	ND	ND
1,2-Dichlorobenzene	95-50-1	2.0	10.0	ND	ND
1,3-Dichlorobenzene	541-73-1	3.0	13.0	ND	ND
1,4-Dichlorobenzene	106-46-7	3.0	12.0	ND	ND
3,3'-Dichlorobenzidine	91-94-1	7.0	33.0	ND	ND
2,4-Dichlorophenol	120-83-2	5.0	21.0	ND	ND
Diethylphthalate	84-66-2	4.0	20.0	ND	ND
2,4-Dimethylphenol	105-67-9	6.0	27.0	ND	ND
Dimethylphthalate	131-11-3	4.0	16.0	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	96.0	477.0	ND	ND
2,4-Dinitrophenol	51-28-5	152.0	757.0	ND	ND
2,4-Dinitrotoluene	121-14-2	26.0	128.0	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301370

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-3

DOUGLASSVILLE
SAMPLE # A-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 17:21, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 17.5

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,6-Dinitrotoluene	606-20-2	18.0	88.0	ND	ND
Di-n-octyl phthalate	117-84-0	7.0	32.0	ND	ND
Fluoranthene	206-44-0	2.0	8.0	6,800E	ND
Fluorene	7782-41-4	5.0	25.0	ND	ND
Hexachlorobenzene	118-74-1	6.0	27.0	ND	ND
Hexachlorobutadiene	87-68-3	4.0	17.0	ND	ND
Hexachlorocyclopentadiene	77-47-4	18.0	88.0	ND	ND
Hexachloroethane	67-72-1	7.0	31.0	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	3.0	13.0	ND	ND
Isophorone	78-59-1	3.0	15.0	ND	ND
2-Methylnaphthalene	91-57-6	2.0	10.0	47,000	ND
2-Methylphenol	95-48-7	3.0	13.0	ND	ND
4-Methylphenol	106-44-5	4.0	15.0	ND	ND
Naphthalene	91-20-3	2.0	6.0	33,000	ND
2-Nitroaniline	88-74-4	5.0	22.0	ND	ND
3-Nitroaniline	99-09-2	17.0	85.0	ND	ND
4-Nitroaniline	100-01-6	9.0	42.0	ND	ND
Nitrobenzene	98-95-3	3.0	15.0	ND	ND
2-Nitrophenol	88-75-5	6.0	28.0	ND	ND
4-Nitrophenol	100-01-6	65.0	322.0	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2.0	8.0	ND	ND
N-Nitrosodi-n-propylamine	621-64-7	4.0	20.0	ND	ND
Pentachlorophenol	87-86-5	77.0	386.0	ND	ND
Phenanthrene	85-01-8	2.0	8.0	21,000	ND
Phenol	108-95-2	3.0	14.0	ND	ND
Pyrene	129-00-0	5.0	24.0	ND	ND
1,2,4-Trichlorobenzene	120-82-1	4.0	19.0	ND	ND
2,4,5-Trichlorophenol	95-95-4	14.0	70.0	ND	ND
2,4,6-Trichlorophenol	88-06-2	21.0	105.0	ND	ND
2-Fluorophenol (surrogate std)	% Recovery	[OK=25-121]		99	101
Phenol-d6 (surrogate std)	% Recovery	[OK=24-113]		99	93
Nitrobenzene-d5 (surrogate std)	% Recovery	[OK=23-120]		80	91
2-Fluorobiphenyl (surrogate std)	% Recovery	[OK=30-115]		108	96
2,4,6-Tribromophenol (surrogate std)	% Recovery	[OK=19-122]		109	102
Terphenyl-d14 (surrogate std)	% Recovery	[OK=18-137]		114	80

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as diphenylamine

Michael Hayes

AR301371

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-7

DOUGLASSVILLE
SAMPLE # B-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 20:45, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 16.9

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	4.0	20.0	ND	ND
Acenaphthylene	208-96-8	5.0	21.0	ND	ND
Anthracene	120-12-7	3.0	13.0	ND	ND
Benz[a]anthracene	56-55-3	2.0	10.0	8,200E	ND
Benzo[b]fluoranthene	205-99-2	3.0	12.0	ND	ND
Benzo[k]fluoranthene	207-08-9	2.0	8.0	ND	ND
Benzoic acid	65-85-0	65.0	323.0	ND	ND
Benzo[ghi]perylene	191-24-2	2.0	9.0	9,200E	ND
Benzo[a]pyrene	50-32-8	2.0	10.0	ND	ND
Benzyl alcohol	100-51-6	3.0	15.0	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	3.0	12.0	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3.0	14.0	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	5.0	21.0	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	4.0	20.0	ND	ND
4-Bromophenyl phenyl ether	101-55-3	4.0	16.0	ND	ND
Butyl benzyl phthalate	85-68-7	5.0	21.0	ND	ND
4-Chloroaniline	106-47-8	3.0	12.0	ND	ND
4-Chloro-3-methylphenol	59-50-7	6.0	27.0	ND	ND
2-Chloronaphthalene	91-58-7	3.0	11.0	ND	ND
2-Chlorophenol	95-57-8	2.0	10.0	ND	ND
4-Chlorophenyl phenyl ether	59-50-7	6.0	27.0	ND	ND
Chrysene	218-01-9	4.0	19.0	10,000E	ND
Dibenz[a,h]anthracene	53-70-3	2.0	9.0	ND	ND
Dibenzofuran	132-64-9	5.0	25.0	ND	ND
Di-n-butylphthalate	84-74-2	3.0	12.0	ND	ND
1,2-Dichlorobenzene	95-50-1	2.0	10.0	ND	ND
1,3-Dichlorobenzene	541-73-1	3.0	13.0	ND	ND
1,4-Dichlorobenzene	106-46-7	3.0	12.0	ND	ND
3,3'-Dichlorobenzidine	91-94-1	7.0	33.0	ND	ND
2,4-Dichlorophenol	120-83-2	5.0	21.0	ND	ND
Diethylphthalate	84-66-2	4.0	20.0	ND	ND
2,4-Dimethylphenol	105-67-9	6.0	27.0	ND	ND
Dimethylphthalate	131-11-3	4.0	16.0	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	96.0	477.0	ND	ND
2,4-Dinitrophenol	51-28-5	152.0	757.0	ND	ND
2,4-Dinitrotoluene	121-14-2	26.0	128.0	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hy

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-7

DOUGLASSVILLE
SAMPLE # B-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 20:45, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 16.9

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,6-Dinitrotoluene	606-20-2	18.0	88.0	ND	ND
Di-n-octyl phthalate	117-84-0	7.0	32.0	ND	ND
Fluoranthene	206-44-0	2.0	8.0	6,800E	ND
Fluorene	7782-41-4	5.0	25.0	ND	ND
Hexachlorobenzene	118-74-1	6.0	27.0	ND	ND
Hexachlorobutadiene	87-68-3	4.0	17.0	ND	ND
Hexachlorocyclopentadiene	77-47-4	18.0	88.0	ND	ND
Hexachloroethane	67-72-1	7.0	31.0	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	3.0	13.0	ND	ND
Isophorone	78-59-1	3.0	15.0	ND	ND
2-Methylnaphthalene	91-57-6	2.0	10.0	52,000	ND
2-Methylphenol	95-48-7	3.0	13.0	ND	ND
4-Methylphenol	106-44-5	4.0	15.0	ND	ND
Naphthalene	91-20-3	2.0	6.0	36,000	ND
2-Nitroaniline	88-74-4	5.0	22.0	ND	ND
3-Nitroaniline	99-09-2	17.0	85.0	ND	ND
4-Nitroaniline	100-01-6	9.0	42.0	ND	ND
Nitrobenzene	98-95-3	3.0	15.0	ND	ND
2-Nitrophenol	88-75-5	6.0	28.0	ND	ND
4-Nitrophenol	100-01-6	65.0	322.0	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2.0	8.0	ND	ND
N-Nitrosodi-n-propylamine	621-64-7	4.0	20.0	ND	ND
Pentachlorophenol	87-86-5	77.0	386.0	ND	ND
Phenanthrene	85-01-8	2.0	8.0	23,000	ND
Phenol	108-95-2	3.0	14.0	ND	ND
Pyrene	129-00-0	5.0	24.0	ND	ND
1,2,4-Trichlorobenzene	120-82-1	4.0	19.0	ND	ND
2,4,5-Trichlorophenol	95-95-4	14.0	70.0	ND	ND
2,4,6-Trichlorophenol	88-06-2	21.0	105.0	ND	ND
2-Fluorophenol (surrogate std)	% Recovery	[OK=25-121]		62	101
Phenol-d6 (surrogate std)	% Recovery	[OK=24-113]		75	93
Nitrobenzene-d5 (surrogate std)	% Recovery	[OK=23-120]		62	91
2-Fluorobiphenyl (surrogate std)	% Recovery	[OK=30-115]		88	96
2,4,6-Tribromophenol (surrogate std)	% Recovery	[OK=19-122]		89	102
Terphenyl-d14 (surrogate std)	% Recovery	[OK=18-137]		92	80

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as diphenylamine

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-8

DOUGLASSVILLE
SAMPLE # B-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 21:34, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 18.8

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	4.0	20.0	ND	ND
Acenaphthylene	208-96-8	5.0	21.0	ND	ND
Anthracene	120-12-7	3.0	13.0	ND	ND
Benz[a]anthracene	56-55-3	2.0	10.0	10,000E	ND
Benzo[b]fluoranthene	205-99-2	3.0	12.0	ND	ND
Benzo[k]fluoranthene	207-08-9	2.0	8.0	ND	ND
Benzoic acid	65-85-0	65.0	323.0	ND	ND
Benzo[ghi]perylene	191-24-2	2.0	9.0	7,200E	ND
Benzo[a]pyrene	50-32-8	2.0	10.0	ND	ND
Benzyl alcohol	100-51-6	3.0	15.0	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	3.0	12.0	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3.0	14.0	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	5.0	21.0	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	4.0	20.0	ND	ND
4-Bromophenyl phenyl ether	101-55-3	4.0	16.0	ND	ND
Butyl benzyl phthalate	85-68-7	5.0	21.0	ND	ND
4-Chloroaniline	106-47-8	3.0	12.0	ND	ND
4-Chloro-3-methylphenol	59-50-7	6.0	27.0	ND	ND
2-Chloronaphthalene	91-58-7	3.0	11.0	ND	ND
2-Chlorophenol	95-57-8	2.0	10.0	ND	ND
4-Chlorophenyl phenyl ether	59-50-7	6.0	27.0	ND	ND
Chrysene	218-01-9	4.0	19.0	13,000E	ND
Dibenz[a,h]anthracene	53-70-3	2.0	9.0	ND	ND
Dibenzofuran	132-64-9	5.0	25.0	ND	ND
Di-n-butylphthalate	84-74-2	3.0	12.0	ND	ND
1,2-Dichlorobenzene	95-50-1	2.0	10.0	ND	ND
1,3-Dichlorobenzene	541-73-1	3.0	13.0	ND	ND
1,4-Dichlorobenzene	106-46-7	3.0	12.0	ND	ND
3,3'-Dichlorobenzidine	91-94-1	7.0	33.0	ND	ND
2,4-Dichlorophenol	120-83-2	5.0	21.0	ND	ND
Diethylphthalate	84-66-2	4.0	20.0	ND	ND
2,4-Dimethylphenol	105-67-9	6.0	27.0	ND	ND
Dimethylphthalate	131-11-3	4.0	16.0	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	96.0	477.0	ND	ND
2,4-Dinitrophenol	51-28-5	152.0	757.0	ND	ND
2,4-Dinitrotoluene	121-14-2	26.0	128.0	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hazen

AR301374

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-8

DOUGLASSVILLE
SAMPLE # B-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 21:34, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 18.8

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,6-Dinitrotoluene	606-20-2	18.0	88.0	ND	ND
Di-n-octyl phthalate	117-84-0	7.0	32.0	ND	ND
Fluoranthene	206-44-0	2.0	8.0	7,400E	ND
Fluorene	7782-41-4	5.0	25.0	ND	ND
Hexachlorobenzene	118-74-1	6.0	27.0	ND	ND
Hexachlorobutadiene	87-68-3	4.0	17.0	ND	ND
Hexachlorocyclopentadiene	77-47-4	18.0	88.0	ND	ND
Hexachloroethane	67-72-1	7.0	31.0	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	3.0	13.0	ND	ND
Isophorone	78-59-1	3.0	15.0	ND	ND
2-Methylnaphthalene	91-57-6	2.0	10.0	57,000	ND
2-Methylphenol	95-48-7	3.0	13.0	ND	ND
4-Methylphenol	106-44-5	4.0	15.0	ND	ND
Naphthalene	91-20-3	2.0	6.0	38,000	ND
2-Nitroaniline	88-74-4	5.0	22.0	ND	ND
3-Nitroaniline	99-09-2	17.0	85.0	ND	ND
4-Nitroaniline	100-01-6	9.0	42.0	ND	ND
Nitrobenzene	98-95-3	3.0	15.0	ND	ND
2-Nitrophenol	88-75-5	6.0	28.0	ND	ND
4-Nitrophenol	100-01-6	65.0	322.0	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2.0	8.0	ND	ND
N-Nitrosodi-n-propylamine	621-64-7	4.0	20.0	ND	ND
Pentachlorophenol	87-86-5	77.0	386.0	ND	ND
Phenanthrene	85-01-8	2.0	8.0	26,000	ND
Phenol	108-95-2	3.0	14.0	ND	ND
Pyrene	129-00-0	5.0	24.0	ND	ND
1,2,4-Trichlorobenzene	120-82-1	4.0	19.0	ND	ND
2,4,5-Trichlorophenol	95-95-4	14.0	70.0	ND	ND
2,4,6-Trichlorophenol	88-06-2	21.0	105.0	ND	ND
2-Fluorophenol (surrogate std)	% Recovery	[OK=25-121]		78	101
Phenol-d6 (surrogate std)	% Recovery	[OK=24-113]		90	93
Nitrobenzene-d5 (surrogate std)	% Recovery	[OK=23-120]		71	91
2-Fluorobiphenyl (surrogate std)	% Recovery	[OK=30-115]		106	96
2,4,6-Tribromophenol (surrogate std)	% Recovery	[OK=19-122]		109	102
Terphenyl-d14 (surrogate std)	% Recovery	[OK=18-137]		104	80

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as diphenylamine

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-9

DOUGLASSVILLE
SAMPLE # B-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 22:24, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 18.1

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	4.0	20.0	ND	ND
Acenaphthylene	208-96-8	5.0	21.0	ND	ND
Anthracene	120-12-7	3.0	13.0	ND	ND
Benz[a]anthracene	56-55-3	2.0	10.0	7,500E	ND
Benzo[b]fluoranthene	205-99-2	3.0	12.0	ND	ND
Benzo[k]fluoranthene	207-08-9	2.0	8.0	ND	ND
Benzoic acid	65-85-0	65.0	323.0	ND	ND
Benzo[ghi]perylene	191-24-2	2.0	9.0	ND	ND
Benzo[a]pyrene	50-32-8	2.0	10.0	ND	ND
Benzyl alcohol	100-51-6	3.0	15.0	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	3.0	12.0	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3.0	14.0	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	5.0	21.0	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	4.0	20.0	ND	ND
4-Bromophenyl phenyl ether	101-55-3	4.0	16.0	ND	ND
Butyl benzyl phthalate	85-68-7	5.0	21.0	ND	ND
4-Chloroaniline	106-47-8	3.0	12.0	ND	ND
4-Chloro-3-methylphenol	59-50-7	6.0	27.0	ND	ND
2-Chloronaphthalene	91-58-7	3.0	11.0	ND	ND
2-Chlorophenol	95-57-8	2.0	10.0	ND	ND
4-Chlorophenyl phenyl ether	59-50-7	6.0	27.0	ND	ND
Chrysene	218-01-9	4.0	19.0	ND	ND
Dibenz[a,h]anthracene	53-70-3	2.0	9.0	ND	ND
Dibenzofuran	132-64-9	5.0	25.0	ND	ND
Di-n-butylphthalate	84-74-2	3.0	12.0	ND	ND
1,2-Dichlorobenzene	95-50-1	2.0	10.0	ND	ND
1,3-Dichlorobenzene	541-73-1	3.0	13.0	ND	ND
1,4-Dichlorobenzene	106-46-7	3.0	12.0	ND	ND
3,3'-Dichlorobenzidine	91-94-1	7.0	33.0	ND	ND
2,4-Dichlorophenol	120-83-2	5.0	21.0	ND	ND
Diethylphthalate	84-66-2	4.0	20.0	ND	ND
2,4-Dimethylphenol	105-67-9	6.0	27.0	ND	ND
Dimethylphthalate	131-11-3	4.0	16.0	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	96.0	477.0	ND	ND
2,4-Dinitrophenol	51-28-5	152.0	757.0	ND	ND
2,4-Dinitrotoluene	121-14-2	26.0	128.0	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-9

DOUGLASSVILLE
SAMPLE # B-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 22:24, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 18.1

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,6-Dinitrotoluene	606-20-2	18.0	88.0	ND	ND
Di-n-octyl phthalate	117-84-0	7.0	32.0	ND	ND
Fluoranthene	206-44-0	2.0	8.0	7,000E	ND
Fluorene	7782-41-4	5.0	25.0	ND	ND
Hexachlorobenzene	118-74-1	6.0	27.0	ND	ND
Hexachlorobutadiene	87-68-3	4.0	17.0	ND	ND
Hexachlorocyclopentadiene	77-47-4	18.0	88.0	ND	ND
Hexachloroethane	67-72-1	7.0	31.0	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	3.0	13.0	ND	ND
Isophorone	78-59-1	3.0	15.0	ND	ND
2-Methylnaphthalene	91-57-6	2.0	10.0	50,000	ND
2-Methylphenol	95-48-7	3.0	13.0	ND	ND
4-Methylphenol	106-44-5	4.0	15.0	ND	ND
Naphthalene	91-20-3	2.0	6.0	31,000	ND
2-Nitroaniline	88-74-4	5.0	22.0	ND	ND
3-Nitroaniline	99-09-2	17.0	85.0	ND	ND
4-Nitroaniline	100-01-6	9.0	42.0	ND	ND
Nitrobenzene	98-95-3	3.0	15.0	ND	ND
2-Nitrophenol	88-75-5	6.0	28.0	ND	ND
4-Nitrophenol	100-01-6	65.0	322.0	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2.0	8.0	ND	ND
N-Nitrosodi-n-propylamine	621-64-7	4.0	20.0	ND	ND
Pentachlorophenol	87-86-5	77.0	386.0	ND	ND
Phenanthrene	85-01-8	2.0	8.0	21,000	ND
Phenol	108-95-2	3.0	14.0	ND	ND
Pyrene	129-00-0	5.0	24.0	ND	ND
1,2,4-Trichlorobenzene	120-82-1	4.0	19.0	ND	ND
2,4,5-Trichlorophenol	95-95-4	14.0	70.0	ND	ND
2,4,6-Trichlorophenol	88-06-2	21.0	105.0	ND	ND
2-Fluorophenol (surrogate std)	% Recovery	[OK=25-121]		102	101
Phenol-d6 (surrogate std)	% Recovery	[OK=24-113]		103	93
Nitrobenzene-d5 (surrogate std)	% Recovery	[OK=23-120]		82	91
2-Fluorobiphenyl (surrogate std)	% Recovery	[OK=30-115]		120	96
2,4,6-Tribromophenol (surrogate std)	% Recovery	[OK=19-122]		122	102
Terphenyl-d14 (surrogate std)	% Recovery	[OK=18-137]		118	80

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as diphenylamine

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-4

DOUGLASSVILLE
SAMPLE # AC-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 18:13, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 16.6

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	4.0	20.0	ND	ND
Acenaphthylene	208-96-8	5.0	21.0	ND	ND
Anthracene	120-12-7	3.0	13.0	ND	ND
Benz[a]anthracene	56-55-3	2.0	10.0	8,600E	ND
Benzo[b]fluoranthene	205-99-2	3.0	12.0	ND	ND
Benzo[k]fluoranthene	207-08-9	2.0	8.0	ND	ND
Benzoic acid	65-85-0	65.0	323.0	ND	ND
Benzo[ghi]perylene	191-24-2	2.0	9.0	7,600E	ND
Benzo[a]pyrene	50-32-8	2.0	10.0	ND	ND
Benzyl alcohol	100-51-6	3.0	15.0	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	3.0	12.0	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3.0	14.0	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	5.0	21.0	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	4.0	20.0	ND	ND
4-Bromophenyl phenyl ether	101-55-3	4.0	16.0	ND	ND
Butyl benzyl phthalate	85-68-7	5.0	21.0	ND	ND
4-Chloroaniline	106-47-8	3.0	12.0	ND	ND
4-Chloro-3-methylphenol	59-50-7	6.0	27.0	ND	ND
2-Chloronaphthalene	91-58-7	3.0	11.0	ND	ND
2-Chlorophenol	95-57-8	2.0	10.0	ND	ND
4-Chlorophenyl phenyl ether	59-50-7	6.0	27.0	ND	ND
Chrysene	218-01-9	4.0	19.0	11,000E	ND
Dibenz[a,h]anthracene	53-70-3	2.0	9.0	ND	ND
Dibenzofuran	132-64-9	5.0	25.0	ND	ND
Di-n-butylphthalate	84-74-2	3.0	12.0	ND	ND
1,2-Dichlorobenzene	95-50-1	2.0	10.0	ND	ND
1,3-Dichlorobenzene	541-73-1	3.0	13.0	ND	ND
1,4-Dichlorobenzene	106-46-7	3.0	12.0	ND	ND
3,3'-Dichlorobenzidine	91-94-1	7.0	33.0	ND	ND
2,4-Dichlorophenol	120-83-2	5.0	21.0	ND	ND
Diethylphthalate	84-66-2	4.0	20.0	ND	ND
2,4-Dimethylphenol	105-67-9	6.0	27.0	ND	ND
Dimethylphthalate	131-11-3	4.0	16.0	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	96.0	477.0	ND	ND
2,4-Dinitrophenol	51-28-5	152.0	757.0	ND	ND
2,4-Dinitrotoluene	121-14-2	26.0	128.0	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301378

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-4

DOUGLASSVILLE
SAMPLE # AC-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 18:13, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 16.6

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,6-Dinitrotoluene	606-20-2	18.0	88.0	ND	ND
Di-n-octyl phthalate	117-84-0	7.0	32.0	ND	ND
Fluoranthene	206-44-0	2.0	8.0	ND	ND
Fluorene	7782-41-4	5.0	25.0	ND	ND
Hexachlorobenzene	118-74-1	6.0	27.0	ND	ND
Hexachlorobutadiene	87-68-3	4.0	17.0	ND	ND
Hexachlorocyclopentadiene	77-47-4	18.0	88.0	ND	ND
Hexachloroethane	67-72-1	7.0	31.0	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	3.0	13.0	ND	ND
Isophorone	78-59-1	3.0	15.0	ND	ND
2-Methylnaphthalene	91-57-6	2.0	10.0	41,000	ND
2-Methylphenol	95-48-7	3.0	13.0	ND	ND
4-Methylphenol	106-44-5	4.0	15.0	ND	ND
Naphthalene	91-20-3	2.0	6.0	27,000	ND
2-Nitroaniline	88-74-4	5.0	22.0	ND	ND
3-Nitroaniline	99-09-2	17.0	85.0	ND	ND
4-Nitroaniline	100-01-6	9.0	42.0	ND	ND
Nitrobenzene	98-95-3	3.0	15.0	ND	ND
2-Nitrophenol	88-75-5	6.0	28.0	ND	ND
4-Nitrophenol	100-01-6	65.0	322.0	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2.0	8.0	ND	ND
N-Nitrosodi-n-propylamine	621-64-7	4.0	20.0	ND	ND
Pentachlorophenol	87-86-5	77.0	386.0	ND	ND
Phenanthrene	85-01-8	2.0	8.0	19,000	ND
Phenol	108-95-2	3.0	14.0	ND	ND
Pyrene	129-00-0	5.0	24.0	ND	ND
1,2,4-Trichlorobenzene	120-82-1	4.0	19.0	ND	ND
2,4,5-Trichlorophenol	95-95-4	14.0	70.0	ND	ND
2,4,6-Trichlorophenol	88-06-2	21.0	105.0	ND	ND
2-Fluorophenol (surrogate std)	% Recovery	[OK=25-121]		80	101
Phenol-d6 (surrogate std)	% Recovery	[OK=24-113]		89	93
Nitrobenzene-d5 (surrogate std)	% Recovery	[OK=23-120]		72	91
2-Fluorobiphenyl (surrogate std)	% Recovery	[OK=30-115]		104	96
2,4,6-Tribromophenol (surrogate std)	% Recovery	[OK=19-122]		99	102
Terphenyl-d14 (surrogate std)	% Recovery	[OK=18-137]		102	80

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as diphenylamine

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-5

DOUGLASSVILLE
SAMPLE # AC-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 19:04, TAG
EXTRACTION (Date / Init) : 9/1/92

Dilution Factor: 10
Extract Method: 3550
% Moisture: 15.4

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	4.0	20.0	ND	ND
Acenaphthylene	208-96-8	5.0	21.0	ND	ND
Anthracene	120-12-7	3.0	13.0	ND	ND
Benz[a]anthracene	56-55-3	2.0	10.0	10,000E	ND
Benzo[b]fluoranthene	205-99-2	3.0	12.0	ND	ND
Benzo[k]fluoranthene	207-08-9	2.0	8.0	ND	ND
Benzoic acid	65-85-0	65.0	323.0	ND	ND
Benzo[ghi]perylene	191-24-2	2.0	9.0	7,800E	ND
Benzo[a]pyrene	50-32-8	2.0	10.0	ND	ND
Benzyl alcohol	100-51-6	3.0	15.0	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	3.0	12.0	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3.0	14.0	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	5.0	21.0	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	4.0	20.0	ND	ND
4-Bromophenyl phenyl ether	101-55-3	4.0	16.0	ND	ND
Butyl benzyl phthalate	85-68-7	5.0	21.0	ND	ND
4-Chloroaniline	106-47-8	3.0	12.0	ND	ND
4-Chloro-3-methylphenol	59-50-7	6.0	27.0	ND	ND
2-Chloronaphthalene	91-58-7	3.0	11.0	ND	ND
2-Chlorophenol	95-57-8	2.0	10.0	ND	ND
4-Chlorophenyl phenyl ether	59-50-7	6.0	27.0	ND	ND
Chrysene	218-01-9	4.0	19.0	13,000E	ND
Dibenz[a,h]anthracene	53-70-3	2.0	9.0	ND	ND
Dibenzofuran	132-64-9	5.0	25.0	ND	ND
Di-n-butylphthalate	84-74-2	3.0	12.0	ND	ND
1,2-Dichlorobenzene	95-50-1	2.0	10.0	ND	ND
1,3-Dichlorobenzene	541-73-1	3.0	13.0	ND	ND
1,4-Dichlorobenzene	106-46-7	3.0	12.0	ND	ND
3,3'-Dichlorobenzidine	91-94-1	7.0	33.0	ND	ND
2,4-Dichlorophenol	120-83-2	5.0	21.0	ND	ND
Diethylphthalate	84-66-2	4.0	20.0	ND	ND
2,4-Dimethylphenol	105-67-9	6.0	27.0	ND	ND
Dimethylphthalate	131-11-3	4.0	16.0	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	96.0	477.0	ND	ND
2,4-Dinitrophenol	51-28-5	152.0	757.0	ND	ND
2,4-Dinitrotoluene	121-14-2	26.0	128.0	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-5

DOUGLASSVILLE
SAMPLE # AC-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 19:04, TAG
EXTRACTION (Date / Init) : 9/1/92

Dilution Factor: 10
Extract Method: 3550
% Moisture: 15.4

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,6-Dinitrotoluene	606-20-2	18.0	88.0	ND	ND
Di-n-octyl phthalate	117-84-0	7.0	32.0	ND	ND
Fluoranthene	206-44-0	2.0	8.0	7,000E	ND
Fluorene	7782-41-4	5.0	25.0	ND	ND
Hexachlorobenzene	118-74-1	6.0	27.0	ND	ND
Hexachlorobutadiene	87-68-3	4.0	17.0	ND	ND
Hexachlorocyclopentadiene	77-47-4	18.0	88.0	ND	ND
Hexachloroethane	67-72-1	7.0	31.0	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	3.0	13.0	ND	ND
Isophorone	78-59-1	3.0	15.0	ND	ND
2-Methylnaphthalene	91-57-6	2.0	10.0	49,000	ND
2-Methylphenol	95-48-7	3.0	13.0	ND	ND
4-Methylphenol	106-44-5	4.0	15.0	ND	ND
Naphthalene	91-20-3	2.0	6.0	39,000	ND
2-Nitroaniline	88-74-4	5.0	22.0	ND	ND
3-Nitroaniline	99-09-2	17.0	85.0	ND	ND
4-Nitroaniline	100-01-6	9.0	42.0	ND	ND
Nitrobenzene	98-95-3	3.0	15.0	ND	ND
2-Nitrophenol	88-75-5	6.0	28.0	ND	ND
4-Nitrophenol	100-01-6	65.0	322.0	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2.0	8.0	ND	ND
N-Nitrosodi-n-propylamine	621-64-7	4.0	20.0	ND	ND
Pentachlorophenol	87-86-5	77.0	386.0	ND	ND
Phenanthrene	85-01-8	2.0	8.0	29,000	ND
Phenol	108-95-2	3.0	14.0	ND	ND
Pyrene	129-00-0	5.0	24.0	ND	ND
1,2,4-Trichlorobenzene	120-82-1	4.0	19.0	ND	ND
2,4,5-Trichlorophenol	95-95-4	14.0	70.0	ND	ND
2,4,6-Trichlorophenol	88-06-2	21.0	105.0	ND	ND
2-Fluorophenol (surrogate std)	% Recovery	[OK=25-121]		86	101
Phenol-d6 (surrogate std)	% Recovery	[OK=24-113]		100	93
Nitrobenzene-d5 (surrogate std)	% Recovery	[OK=23-120]		72	91
2-Fluorobiphenyl (surrogate std)	% Recovery	[OK=30-115]		109	96
2,4,6-Tribromophenol (surrogate std)	% Recovery	[OK=19-122]		115	102
Terphenyl-d14 (surrogate std)	% Recovery	[OK=18-137]		116	80

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as diphenylamine

Michael Hayes

AR301381

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-6

DOUGLASSVILLE
SAMPLE # AC-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 19:55, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 19.2

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	4.0	20.0	ND	ND
Acenaphthylene	208-96-8	5.0	21.0	ND	ND
Anthracene	120-12-7	3.0	13.0	ND	ND
Benz[a]anthracene	56-55-3	2.0	10.0	12,000E	ND
Benzo[b]fluoranthene	205-99-2	3.0	12.0	7,900E	ND
Benzo[k]fluoranthene	207-08-9	2.0	8.0	ND	ND
Benzoic acid	65-85-0	65.0	323.0	ND	ND
Benzo[ghi]perylene	191-24-2	2.0	9.0	9,400E	ND
Benzo[a]pyrene	50-32-8	2.0	10.0	ND	ND
Benzyl alcohol	100-51-6	3.0	15.0	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	3.0	12.0	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3.0	14.0	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	5.0	21.0	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	4.0	20.0	ND	ND
4-Bromophenyl phenyl ether	101-55-3	4.0	16.0	ND	ND
Butyl benzyl phthalate	85-68-7	5.0	21.0	ND	ND
4-Chloroaniline	106-47-8	3.0	12.0	ND	ND
4-Chloro-3-methylphenol	59-50-7	6.0	27.0	ND	ND
2-Chloronaphthalene	91-58-7	3.0	11.0	ND	ND
2-Chlorophenol	95-57-8	2.0	10.0	ND	ND
4-Chlorophenyl phenyl ether	59-50-7	6.0	27.0	ND	ND
Chrysene	218-01-9	4.0	19.0	15,000E	ND
Dibenz[a,h]anthracene	53-70-3	2.0	9.0	ND	ND
Dibenzofuran	132-64-9	5.0	25.0	ND	ND
Di-n-butylphthalate	84-74-2	3.0	12.0	ND	ND
1,2-Dichlorobenzene	95-50-1	2.0	10.0	ND	ND
1,3-Dichlorobenzene	541-73-1	3.0	13.0	ND	ND
1,4-Dichlorobenzene	106-46-7	3.0	12.0	ND	ND
3,3'-Dichlorobenzidine	91-94-1	7.0	33.0	ND	ND
2,4-Dichlorophenol	120-83-2	5.0	21.0	ND	ND
Diethylphthalate	84-66-2	4.0	20.0	ND	ND
2,4-Dimethylphenol	105-67-9	6.0	27.0	ND	ND
Dimethylphthalate	131-11-3	4.0	16.0	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	96.0	477.0	ND	ND
2,4-Dinitrophenol	51-28-5	152.0	757.0	ND	ND
2,4-Dinitrotoluene	121-14-2	26.0	128.0	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301382

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-6

DOUGLASSVILLE
SAMPLE # AC-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 19:55, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 19.2

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,6-Dinitrotoluene	606-20-2	18.0	88.0	ND	ND
Di-n-octyl phthalate	117-84-0	7.0	32.0	ND	ND
Fluoranthene	206-44-0	2.0	8.0	9,200E	ND
Fluorene	7782-41-4	5.0	25.0	ND	ND
Hexachlorobenzene	118-74-1	6.0	27.0	ND	ND
Hexachlorobutadiene	87-68-3	4.0	17.0	ND	ND
Hexachlorocyclopentadiene	77-47-4	18.0	88.0	ND	ND
Hexachloroethane	67-72-1	7.0	31.0	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	3.0	13.0	ND	ND
Isophorone	78-59-1	3.0	15.0	ND	ND
2-Methylnaphthalene	91-57-6	2.0	10.0	59,000	ND
2-Methylphenol	95-48-7	3.0	13.0	ND	ND
4-Methylphenol	106-44-5	4.0	15.0	ND	ND
Naphthalene	91-20-3	2.0	6.0	45,000	ND
2-Nitroaniline	88-74-4	5.0	22.0	ND	ND
3-Nitroaniline	99-09-2	17.0	85.0	ND	ND
4-Nitroaniline	100-01-6	9.0	42.0	ND	ND
Nitrobenzene	98-95-3	3.0	15.0	ND	ND
2-Nitrophenol	88-75-5	6.0	28.0	ND	ND
4-Nitrophenol	100-01-6	65.0	322.0	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2.0	8.0	ND	ND
N-Nitrosodi-n-propylamine	621-64-7	4.0	20.0	ND	ND
Pentachlorophenol	87-86-5	77.0	386.0	ND	ND
Phenanthrene	85-01-8	2.0	8.0	28,000	ND
Phenol	108-95-2	3.0	14.0	ND	ND
Pyrene	129-00-0	5.0	24.0	ND	ND
1,2,4-Trichlorobenzene	120-82-1	4.0	19.0	ND	ND
2,4,5-Trichlorophenol	95-95-4	14.0	70.0	ND	ND
2,4,6-Trichlorophenol	88-06-2	21.0	105.0	ND	ND
2-Fluorophenol (surrogate std)	% Recovery	[OK=25-121]		79	101
Phenol-d6 (surrogate std)	% Recovery	[OK=24-113]		85	93
Nitrobenzene-d5 (surrogate std)	% Recovery	[OK=23-120]		67	91
2-Fluorobiphenyl (surrogate std)	% Recovery	[OK=30-115]		104	96
2,4,6-Tribromophenol (surrogate std)	% Recovery	[OK=19-122]		101	102
Terphenyl-d14 (surrogate std)	% Recovery	[OK=18-137]		102	80

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as diphenylamine

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-10

DOUGLASSVILLE
SAMPLE # BC-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 23:13, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 18.6

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	4.0	20.0	ND	ND
Acenaphthylene	208-96-8	5.0	21.0	ND	ND
Anthracene	120-12-7	3.0	13.0	ND	ND
Benz[a]anthracene	56-55-3	2.0	10.0	5,000E	ND
Benzo[b]fluoranthene	205-99-2	3.0	12.0	ND	ND
Benzo[k]fluoranthene	207-08-9	2.0	8.0	ND	ND
Benzoic acid	65-85-0	65.0	323.0	ND	ND
Benzo[ghi]perylene	191-24-2	2.0	9.0	5,900E	ND
Benzo[a]pyrene	50-32-8	2.0	10.0	5,600E	ND
Benzyl alcohol	100-51-6	3.0	15.0	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	3.0	12.0	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3.0	14.0	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	5.0	21.0	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	4.0	20.0	ND	ND
4-Bromophenyl phenyl ether	101-55-3	4.0	16.0	ND	ND
Butyl benzyl phthalate	85-68-7	5.0	21.0	ND	ND
4-Chloroaniline	106-47-8	3.0	12.0	ND	ND
4-Chloro-3-methylphenol	59-50-7	6.0	27.0	ND	ND
2-Chloronaphthalene	91-58-7	3.0	11.0	ND	ND
2-Chlorophenol	95-57-8	2.0	10.0	ND	ND
4-Chlorophenyl phenyl ether	59-50-7	6.0	27.0	ND	ND
Chrysene	218-01-9	4.0	19.0	11,000E	ND
Dibenz[a,h]anthracene	53-70-3	2.0	9.0	ND	ND
Dibenzofuran	132-64-9	5.0	25.0	ND	ND
Di-n-butylphthalate	84-74-2	3.0	12.0	ND	ND
1,2-Dichlorobenzene	95-50-1	2.0	10.0	ND	ND
1,3-Dichlorobenzene	541-73-1	3.0	13.0	ND	ND
1,4-Dichlorobenzene	106-46-7	3.0	12.0	ND	ND
3,3'-Dichlorobenzidine	91-94-1	7.0	33.0	ND	ND
2,4-Dichlorophenol	120-83-2	5.0	21.0	ND	ND
Diethylphthalate	84-66-2	4.0	20.0	ND	ND
2,4-Dimethylphenol	105-67-9	6.0	27.0	ND	ND
Dimethylphthalate	131-11-3	4.0	16.0	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	96.0	477.0	ND	ND
2,4-Dinitrophenol	51-28-5	152.0	757.0	ND	ND
2,4-Dinitrotoluene	121-14-2	26.0	128.0	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-10

DOUGLASSVILLE
SAMPLE # BC-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/15/92, 23:13, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 18.6

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,6-Dinitrotoluene	606-20-2	18.0	88.0	ND	ND
Di-n-octyl phthalate	117-84-0	7.0	32.0	ND	ND
Fluoranthene	206-44-0	2.0	8.0	8,100E	ND
Fluorene	7782-41-4	5.0	25.0	ND	ND
Hexachlorobenzene	118-74-1	6.0	27.0	ND	ND
Hexachlorobutadiene	87-68-3	4.0	17.0	ND	ND
Hexachlorocyclopentadiene	77-47-4	18.0	88.0	ND	ND
Hexachloroethane	67-72-1	7.0	31.0	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	3.0	13.0	ND	ND
Isophorone	78-59-1	3.0	15.0	ND	ND
2-Methylnaphthalene	91-57-6	2.0	10.0	65,000	ND
2-Methylphenol	95-48-7	3.0	13.0	ND	ND
4-Methylphenol	106-44-5	4.0	15.0	ND	ND
Naphthalene	91-20-3	2.0	6.0	48,000	ND
2-Nitroaniline	88-74-4	5.0	22.0	ND	ND
3-Nitroaniline	99-09-2	17.0	85.0	ND	ND
4-Nitroaniline	100-01-6	9.0	42.0	ND	ND
Nitrobenzene	98-95-3	3.0	15.0	ND	ND
2-Nitrophenol	88-75-5	6.0	28.0	ND	ND
4-Nitrophenol	100-01-6	65.0	322.0	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2.0	8.0	ND	ND
N-Nitrosodi-n-propylamine	621-64-7	4.0	20.0	ND	ND
Pentachlorophenol	87-86-5	77.0	386.0	ND	ND
Phenanthrene	85-01-8	2.0	8.0	31,000	ND
Phenol	108-95-2	3.0	14.0	ND	ND
Pyrene	129-00-0	5.0	24.0	ND	ND
1,2,4-Trichlorobenzene	120-82-1	4.0	19.0	ND	ND
2,4,5-Trichlorophenol	95-95-4	14.0	70.0	ND	ND
2,4,6-Trichlorophenol	88-06-2	21.0	105.0	ND	ND
2-Fluorophenol (surrogate std)	% Recovery	[OK=25-121]		72	101
Phenol-d6 (surrogate std)	% Recovery	[OK=24-113]		80	93
Nitrobenzene-d5 (surrogate std)	% Recovery	[OK=23-120]		64	91
2-Fluorobiphenyl (surrogate std)	% Recovery	[OK=30-115]		91	96
2,4,6-Tribromophenol (surrogate std)	% Recovery	[OK=19-122]		98	102
Terphenyl-d14 (surrogate std)	% Recovery	[OK=18-137]		97	80

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as diphenylamine

Michael Hay

KIBER Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 20841-11

DOUGLASSVILLE
SAMPLE # BC-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/16/92, 00:03, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 21.3

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	4.0	20.0	ND	ND
Acenaphthylene	208-96-8	5.0	21.0	ND	ND
Anthracene	120-12-7	3.0	13.0	ND	ND
Benz[a]anthracene	56-55-3	2.0	10.0	9,700E	ND
Benzo[b]fluoranthene	205-99-2	3.0	12.0	ND	ND
Benzo[k]fluoranthene	207-08-9	2.0	8.0	ND	ND
Benzoic acid	65-85-0	65.0	323.0	ND	ND
Benzo[ghi]perylene	191-24-2	2.0	9.0	ND	ND
Benzo[a]pyrene	50-32-8	2.0	10.0	5,400E	ND
Benzyl alcohol	100-51-6	3.0	15.0	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	3.0	12.0	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3.0	14.0	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	5.0	21.0	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	4.0	20.0	ND	ND
4-Bromophenyl phenyl ether	101-55-3	4.0	16.0	ND	ND
Butyl benzyl phthalate	85-68-7	5.0	21.0	ND	ND
4-Chloroaniline	106-47-8	3.0	12.0	ND	ND
4-Chloro-3-methylphenol	59-50-7	6.0	27.0	ND	ND
2-Chloronaphthalene	91-58-7	3.0	11.0	ND	ND
2-Chlorophenol	95-57-8	2.0	10.0	ND	ND
4-Chlorophenyl phenyl ether	59-50-7	6.0	27.0	ND	ND
Chrysene	218-01-9	4.0	19.0	12,000E	ND
Dibenz[a,h]anthracene	53-70-3	2.0	9.0	ND	ND
Dibenzofuran	132-64-9	5.0	25.0	ND	ND
Di-n-butylphthalate	84-74-2	3.0	12.0	ND	ND
1,2-Dichlorobenzene	95-50-1	2.0	10.0	ND	ND
1,3-Dichlorobenzene	541-73-1	3.0	13.0	ND	ND
1,4-Dichlorobenzene	106-46-7	3.0	12.0	ND	ND
3,3'-Dichlorobenzidine	91-94-1	7.0	33.0	ND	ND
2,4-Dichlorophenol	120-83-2	5.0	21.0	ND	ND
Diethylphthalate	84-66-2	4.0	20.0	ND	ND
2,4-Dimethylphenol	105-67-9	6.0	27.0	ND	ND
Dimethylphthalate	131-11-3	4.0	16.0	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	96.0	477.0	ND	ND
2,4-Dinitrophenol	51-28-5	152.0	757.0	ND	ND
2,4-Dinitrotoluene	121-14-2	26.0	128.0	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-11

DOUGLASSVILLE
SAMPLE # BC-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/16/92, 00:03, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 21.3

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,6-Dinitrotoluene	606-20-2	18.0	88.0	ND	ND
Di-n-octyl phthalate	117-84-0	7.0	32.0	ND	ND
Fluoranthene	206-44-0	2.0	8.0	7,100E	ND
Fluorene	7782-41-4	5.0	25.0	ND	ND
Hexachlorobenzene	118-74-1	6.0	27.0	ND	ND
Hexachlorobutadiene	87-68-3	4.0	17.0	ND	ND
Hexachlorocyclopentadiene	77-47-4	18.0	88.0	ND	ND
Hexachloroethane	67-72-1	7.0	31.0	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	3.0	13.0	ND	ND
Isophorone	78-59-1	3.0	15.0	ND	ND
2-Methylnaphthalene	91-57-6	2.0	10.0	55,000	ND
2-Methylphenol	95-48-7	3.0	13.0	ND	ND
4-Methylphenol	106-44-5	4.0	15.0	ND	ND
Naphthalene	91-20-3	2.0	6.0	38,000	ND
2-Nitroaniline	88-74-4	5.0	22.0	ND	ND
3-Nitroaniline	99-09-2	17.0	85.0	ND	ND
4-Nitroaniline	100-01-6	9.0	42.0	ND	ND
Nitrobenzene	98-95-3	3.0	15.0	ND	ND
2-Nitrophenol	88-75-5	6.0	28.0	ND	ND
4-Nitrophenol	100-01-6	65.0	322.0	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2.0	8.0	ND	ND
N-Nitrosodi-n-propylamine	621-64-7	4.0	20.0	ND	ND
Pentachlorophenol	87-86-5	77.0	386.0	ND	ND
Phenanthrene	85-01-8	2.0	8.0	23,000	ND
Phenol	108-95-2	3.0	14.0	ND	ND
Pyrene	129-00-0	5.0	24.0	ND	ND
1,2,4-Trichlorobenzene	120-82-1	4.0	19.0	ND	ND
2,4,5-Trichlorophenol	95-95-4	14.0	70.0	ND	ND
2,4,6-Trichlorophenol	88-06-2	21.0	105.0	ND	ND
2-Fluorophenol (surrogate std)	% Recovery	[OK=25-121]		82	101
Phenol-d6 (surrogate std)	% Recovery	[OK=24-113]		88	93
Nitrobenzene-d5 (surrogate std)	% Recovery	[OK=23-120]		72	91
2-Fluorobiphenyl (surrogate std)	% Recovery	[OK=30-115]		111	96
2,4,6-Tribromophenol (surrogate std)	% Recovery	[OK=19-122]		111	102
Terphenyl-d14 (surrogate std)	% Recovery	[OK=18-137]		105	80

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as diphenylamine

Michael Hayes

AR301387

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-12

DOUGLASSVILLE
SAMPLE # BC-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/16/92, 00:53, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 17.7

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Acenaphthene	83-32-9	4.0	20.0	ND	ND
Acenaphthylene	208-96-8	5.0	21.0	ND	ND
Anthracene	120-12-7	3.0	13.0	ND	ND
Benz[a]anthracene	56-55-3	2.0	10.0	5,800E	ND
Benzo[b]fluoranthene	205-99-2	3.0	12.0	ND	ND
Benzo[k]fluoranthene	207-08-9	2.0	8.0	ND	ND
Benzoic acid	65-85-0	65.0	323.0	ND	ND
Benzo[ghi]perylene	191-24-2	2.0	9.0	ND	ND
Benzo[a]pyrene	50-32-8	2.0	10.0	ND	ND
Benzyl alcohol	100-51-6	3.0	15.0	ND	ND
bis(2-Chloroethoxy)methane	111-91-1	3.0	12.0	ND	ND
bis(2-Chloroethyl)ether	111-44-4	3.0	14.0	ND	ND
bis(2-Chloroisopropyl)ether	108-60-1	5.0	21.0	ND	ND
bis(2-Ethylhexyl)phthalate	117-81-7	4.0	20.0	ND	ND
4-Bromophenyl phenyl ether	101-55-3	4.0	16.0	ND	ND
Butyl benzyl phthalate	85-68-7	5.0	21.0	ND	ND
4-Chloroaniline	106-47-8	3.0	12.0	ND	ND
4-Chloro-3-methylphenol	59-50-7	6.0	27.0	ND	ND
2-Chloronaphthalene	91-58-7	3.0	11.0	ND	ND
2-Chlorophenol	95-57-8	2.0	10.0	ND	ND
4-Chlorophenyl phenyl ether	59-50-7	6.0	27.0	ND	ND
Chrysene	218-01-9	4.0	19.0	12,000E	ND
Dibenz[a,h]anthracene	53-70-3	2.0	9.0	ND	ND
Dibenzofuran	132-64-9	5.0	25.0	ND	ND
Di-n-butylphthalate	84-74-2	3.0	12.0	7,700E	ND
1,2-Dichlorobenzene	95-50-1	2.0	10.0	ND	ND
1,3-Dichlorobenzene	541-73-1	3.0	13.0	ND	ND
1,4-Dichlorobenzene	106-46-7	3.0	12.0	ND	ND
3,3'-Dichlorobenzidine	91-94-1	7.0	33.0	ND	ND
2,4-Dichlorophenol	120-83-2	5.0	21.0	ND	ND
Diethylphthalate	84-66-2	4.0	20.0	ND	ND
2,4-Dimethylphenol	105-67-9	6.0	27.0	ND	ND
Dimethylphthalate	131-11-3	4.0	16.0	ND	ND
4,6-Dinitro-2-methylphenol	534-52-1	96.0	477.0	ND	ND
2,4-Dinitrophenol	51-28-5	152.0	757.0	ND	ND
2,4-Dinitrotoluene	121-14-2	26.0	128.0	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hey

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-12

DOUGLASSVILLE
SAMPLE # BC-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/16/92, 00:53, TAG
EXTRACTION (Date / Init) : 9/1/92, ET

Dilution Factor: 10
Extract Method: 3550
% Moisture: 17.7

Sample Matrix: SOLID
Analysis Method: 8270

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
2,6-Dinitrotoluene	606-20-2	18.0	88.0	ND	ND
Di-n-octyl phthalate	117-84-0	7.0	32.0	ND	ND
Fluoranthene	206-44-0	2.0	8.0	6,700E	ND
Fluorene	7782-41-4	5.0	25.0	ND	ND
Hexachlorobenzene	118-74-1	6.0	27.0	ND	ND
Hexachlorobutadiene	87-68-3	4.0	17.0	ND	ND
Hexachlorocyclopentadiene	77-47-4	18.0	88.0	ND	ND
Hexachloroethane	67-72-1	7.0	31.0	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	3.0	13.0	ND	ND
Isophorone	78-59-1	3.0	15.0	ND	ND
2-Methylnaphthalene	91-57-6	2.0	10.0	64,000	ND
2-Methylphenol	95-48-7	3.0	13.0	ND	ND
4-Methylphenol	106-44-5	4.0	15.0	ND	ND
Naphthalene	91-20-3	2.0	6.0	46,000	ND
2-Nitroaniline	88-74-4	5.0	22.0	ND	ND
3-Nitroaniline	99-09-2	17.0	85.0	ND	ND
4-Nitroaniline	100-01-6	9.0	42.0	ND	ND
Nitrobenzene	98-95-3	3.0	15.0	ND	ND
2-Nitrophenol	88-75-5	6.0	28.0	ND	ND
4-Nitrophenol	100-01-6	65.0	322.0	ND	ND
N-Nitrosodiphenylamine*	86-30-6	2.0	8.0	ND	ND
N-Nitrosodi-n-propylamine	621-64-7	4.0	20.0	ND	ND
Pentachlorophenol	87-86-5	77.0	386.0	ND	ND
Phenanthrene	85-01-8	2.0	8.0	27,000	ND
Phenol	108-95-2	3.0	14.0	ND	ND
Pyrene	129-00-0	5.0	24.0	ND	ND
1,2,4-Trichlorobenzene	120-82-1	4.0	19.0	ND	ND
2,4,5-Trichlorophenol	95-95-4	14.0	70.0	ND	ND
2,4,6-Trichlorophenol	88-06-2	21.0	105.0	ND	ND
2-Fluorophenol (surrogate std)	% Recovery	[OK=25-121]		84	101
Phenol-d6 (surrogate std)	% Recovery	[OK=24-113]		88	93
Nitrobenzene-d5 (surrogate std)	% Recovery	[OK=23-120]		72	91
2-Fluorobiphenyl (surrogate std)	% Recovery	[OK=30-115]		106	96
2,4,6-Tribromophenol (surrogate std)	% Recovery	[OK=19-122]		112	102
Terphenyl-d14 (surrogate std)	% Recovery	[OK=18-137]		110	80

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

*as diphenylamine

Michael Hagen

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-1MS

DOUGLASSVILLE
SAMPLE # A-1

SAMPLED (Date/Time/Init):
ANALYSIS (Date/Time/Init): 9/14/92, 20:51, TAG
EXTRACTED (Date/Init): 9/1/92, ET

Sample Matrix: SOLID
Analysis Method: 8270

MATRIX SPIKE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery
Acenaphthene	83-32-9	46- 118	120
4-Chloro-3-methylphenol	59-50-7	23- 97	113
2-Chlorophenol	95-57-8	27- 123	107
1,4-Dichlorobenzene	106-46-7	36- 97	100
4-Nitrophenol	100-02-7	10- 80	82
N-Nitroso-di-propylamine	621-64-7	41-126	107
Pentachlorophenol	87-86-5	9- 103	90
Phenol	108-95-2	12- 110	104
Pyrene	129-00-0	26- 127	125
1,2,4-Trichlorobenzene	120-82-1	39- 98	109
2-Fluorophenol	% Recovery	[OK=21-110]	95
Phenol-d5	% Recovery	[OK=10-110]	100
Nitrobenzene-d5	% Recovery	[OK=35-114]	76
2-Fluorobiphenyl	% Recovery	[OK=43-116]	104
2,4,6-Tribromophenol	% Recovery	[OK=10-123]	108
Terphenyl-d14	% Recovery	[OK=33-141]	102

ANALYSIS (Date/Time/Init):

MATRIX SPIKE DUPLICATE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery	% RPD
Acenaphthene	83-32-9	46- 118	136	12.5
4-Chloro-3-methylphenol	59-50-7	23- 97	112	0.8
2-Chlorophenol	95-57-8	27- 123	112	4.6
1,4-Dichlorobenzene	106-46-7	36- 97	99	1.0
4-Nitrophenol	100-02-7	10- 80	80	2.5
N-Nitroso-di-propylamine	621-64-7	41-126	121	12.3
Pentachlorophenol	87-86-5	9- 103	103	13.5
Phenol	108-95-2	12- 110	108	0.94
Pyrene	129-00-0	26- 127	128	3.1
1,2,4-Trichlorobenzene	120-82-1	39- 98	109	0
2-Fluorophenol	% Recovery	[OK=21-110]	91	
Phenol-d5	% Recovery	[OK=10-110]	98	
Nitrobenzene-d5	% Recovery	[OK=35-114]	72	
2-Fluorobiphenyl	% Recovery	[OK=43-116]	105	
2,4,6-Tribromophenol	% Recovery	[OK=10-123]	113	
Terphenyl-d14	% Recovery	[OK=33-141]	98	

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-11MS

DOUGLASSVILLE
SAMPLE # BC-2

SAMPLED (Date/Time/Init):
ANALYSIS (Date/Time/Init): 9/16/92, 01:42, TAG
EXTRACTED (Date/Init): 9/3/92, ET

Sample Matrix: SOLID
Analysis Method: 8270

THE SAMPLE WAS VERY OILY CAUSING A RISE IN THE BASELINE. THIS COULD CAUSE AN INCREASE IN THE MATRIX SPIKE RECOVERIES IN SOME COMPOUNDS.

MATRIX SPIKE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery
Acenaphthene	83-32-9	46- 118	132
4-Chloro-3-methylphenol	59-50-7	23- 97	114
2-Chlorophenol	95-57-8	27- 123	109
1,4-Dichlorobenzene	106-46-7	36- 97	101
4-Nitrophenol	100-02-7	10- 80	72
N-Nitroso-di-propylamine	621-64-7	41-126	124
Pentachlorophenol	87-86-5	9- 103	97
Phenol	108-95-2	12- 110	106
Pyrene	129-00-0	26- 127	74
1,2,4-Trichlorobenzene	120-82-1	39- 98	123
2-Fluorophenol	% Recovery	[OK=21-110]	99
Phenol-d5	% Recovery	[OK=10-110]	99
Nitrobenzene-d5	% Recovery	[OK=35-114]	91
2-Fluorobiphenyl	% Recovery	[OK=43-116]	115
2,4,6-Tribromophenol	% Recovery	[OK=10-123]	127
Terphenyl-d14	% Recovery	[OK=33-141]	124

Michael Hoge

TCLP Semivolatiles

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-1

DOUGLASSVILLE
SAMPLE # A-1

SAMPLED (Date/Time/Init): 9/16/92, RS
TCLP Extraction (Date/Init) : 9/17/92, EC
ANALYSIS (Date/Time/Init): 9/27/92, 23:21, TAG
EXTRACTION (Date / Init) : 9/18/92, ET

REPORTED: 9/28/92

Dilution 1.000 Sample Matrix: TCLP Extract .
Extract Method: 3510 Analysis Method: 8270

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Acenaphthene	0.4	2.0	ND	ND	ND
Acenaphthylene	0.5	2.1	ND	ND	ND
Anthracene	0.3	1.3	ND	ND	ND
Benz[a]anthracene	0.2	1.0	ND	ND	ND
Benzo[b]fluoranthene	0.3	1.2	ND	ND	ND
Benzo[k]fluoranthene	0.2	0.8	ND	ND	ND
Benzoic acid	6.5	32.3	ND	ND	ND
Benzo[ghi]perylene	0.2	0.9	ND	ND	ND
Benzo[a]pyrene	0.2	1.0	ND	ND	ND
Benzyl alcohol	0.3	1.5	ND	ND	ND
bis(2-Chloroethoxy)methane	0.3	1.2	ND	ND	ND
bis(2-Chloroethyl)ether	0.3	1.4	2.7E	ND	ND
bis(2-Chloroisopropyl)ether	0.5	2.1	ND	ND	ND
bis(2-Ethylhexyl)phthalate	0.4	2.0	ND	ND	ND
4-Bromophenyl phenyl ether	0.4	1.6	ND	ND	ND
Butyl benzyl phthalate	0.5	2.1	ND	ND	ND
4-Chloroaniline	0.3	1.2	ND	ND	ND
4-Chloro-3-methylphenol	0.6	2.7	ND	ND	ND
2-Chloronaphthalene	0.3	1.1	ND	ND	ND
2-Chlorophenol	0.2	1.0	ND	ND	ND
4-Chlorophenyl phenyl ether	0.6	2.7	ND	ND	ND
Chrysene	0.4	1.9	ND	ND	ND
Dibenz[a,h]anthracene	0.2	0.9	ND	ND	ND
Dibenzofuran	0.5	2.5	ND	ND	ND
Di-n-butylphthalate	0.3	1.2	1.1E	ND	ND
1,2-Dichlorobenzene	0.2	1.0	2.9	ND	ND
1,3-Dichlorobenzene	0.3	1.3	ND	ND	ND
1,4-Dichlorobenzene	0.3	1.2	ND	ND	ND
3,3'-Dichlorobenzidine	0.7	3.3	ND	ND	ND
2,4-Dichlorophenol	0.5	2.1	ND	ND	ND
Diethylphthalate	0.4	2.0	ND	ND	ND
2,4-Dimethylphenol	0.6	2.7	97	ND	ND
Dimethylphthalate	0.4	1.6	ND	ND	ND
4,6-Dinitro-2-methylphenol	9.6	47.7	ND	ND	ND
2,4-Dinitrophenol	15.2	75.7	ND	ND	ND
2,4-Dinitrotoluene	2.6	12.8	ND	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 20841-1

DOUGLASSVILLE
SAMPLE # A-1

SAMPLED (Date/Time/Init): 9/16/92, RS
TCLP Extraction (Date/Init) : 9/17/92, EC
ANALYSIS (Date/Time/Init): 9/27/92, 23:21, TAG
EXTRACTION (Date / Init) : 9/18/92, ET

REPORTED: 9/28/92

Dilution 1.000
Extract Method: 3510

Sample Matrix: TCLP Extract
Analysis Method: 8270

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
2,6-Dinitrotoluene	1.8	8.8	ND	ND	ND
Di-n-octyl phthalate	0.7	3.2	ND	ND	ND
Fluoranthene	0.2	0.8	ND	ND	ND
Fluorene	0.5	2.5	ND	ND	ND
Hexachlorobenzene	0.6	2.7	ND	ND	ND
Hexachlorobutadiene	0.4	1.7	ND	ND	ND
Hexachlorocyclopentadiene	1.8	8.8	ND	ND	ND
Hexachloroethane	0.7	3.1	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.3	1.3	ND	ND	ND
Isophorone	0.3	1.5	3.3E	ND	ND
2-Methylnaphthalene	0.2	1.0	7.1	ND	ND
2-Methylphenol	0.3	1.3	32	ND	ND
4-Methylphenol	0.4	1.5	31	ND	ND
Naphthalene	0.2	0.6	16	ND	ND
2-Nitroaniline	0.5	2.2	ND	ND	ND
3-Nitroaniline	1.7	8.5	ND	ND	ND
4-Nitroaniline	0.9	4.2	ND	ND	ND
Nitrobenzene	0.3	1.5	ND	ND	ND
2-Nitrophenol	0.6	2.8	ND	ND	ND
4-Nitrophenol	6.5	32.2	ND	ND	ND
N-Nitrosodiphenylamine*	0.2	0.8	ND	ND	ND
N-Nitrosodi-n-propylamine	0.4	2.0	ND	ND	ND
Pentachlorophenol	7.7	38.6	ND	ND	ND
Phenanthrene	0.2	0.8	ND	ND	ND
Phenol	0.3	1.4	24	ND	ND
Pyrene	0.5	2.4	ND	ND	ND
1,2,4-Trichlorobenzene	0.4	1.9	ND	ND	ND
2,4,5-Trichlorophenol	1.4	7.0	ND	ND	ND
2,4,6-Trichlorophenol	2.1	10.5	ND	ND	ND
SURROGATE RECOVERIES					
2-Fluorophenol (surrogate std)	[OK=21-110]		20	60	56
Phenol-d6 (surrogate std)	[OK=10-110]		20	38	40
Nitrobenzene-d5 (surrogate std)	[OK=35-114]		62	66	33**
2-Fluorobiphenyl (surrogate std)	[OK=43-116]		64	72	36**
2,4,6-Tribromophenol (surrogate std)	[OK=10-123]		31	94	76
Terphenyl-d14 (surrogate std)	[OK=33-141]		22	74	38

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

* as diphenylamine
** SEE CASE NARRATIVE

Michael Hazen

AR301394

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-2

DOUGLASSVILLE
SAMPLE # A-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP Extraction (Date/Init) : 9/6/92, EC
ANALYSIS (Date/Time/Init): 9/25/92, 18:56, TAG
EXTRACTION (Date / Init) : 9/8/92, ET

REPORTED: 9/28/92

Dilution 1.000 Sample Matrix: TCLP Extract
Extract Method: 3510 Analysis Method: 8270

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Acenaphthene	0.4	2.0	ND	ND	ND
Acenaphthylene	0.5	2.1	ND	ND	ND
Anthracene	0.3	1.3	ND	ND	ND
Benz[a]anthracene	0.2	1.0	ND	ND	ND
Benzo[b]fluoranthene	0.3	1.2	ND	ND	ND
Benzo[k]fluoranthene	0.2	0.8	ND	ND	ND
Benzoic acid	6.5	32.3	52E	ND	ND
Benzo[ghi]perylene	0.2	0.9	ND	ND	ND
Benzo[a]pyrene	0.2	1.0	ND	ND	ND
Benzyl alcohol	0.3	1.5	ND	ND	ND
bis(2-Chloroethoxy)methane	0.3	1.2	ND	ND	ND
bis(2-Chloroethyl)ether	0.3	1.4	2.4E	ND	ND
bis(2-Chloroisopropyl)ether	0.5	2.1	ND	ND	ND
bis(2-Ethylhexyl)phthalate	0.4	2.0	ND	ND	ND
4-Bromophenyl phenyl ether	0.4	1.6	ND	ND	ND
Butyl benzyl phthalate	0.5	2.1	ND	ND	ND
4-Chloroaniline	0.3	1.2	ND	ND	ND
4-Chloro-3-methylphenol	0.6	2.7	ND	ND	ND
2-Chloronaphthalene	0.3	1.1	ND	ND	ND
2-Chlorophenol	0.2	1.0	ND	ND	ND
4-Chlorophenyl phenyl ether	0.6	2.7	ND	ND	ND
Chrysene	0.4	1.9	ND	ND	ND
Dibenz[a,h]anthracene	0.2	0.9	ND	ND	ND
Dibenzofuran	0.5	2.5	ND	ND	ND
Di-n-butylphthalate	0.3	1.2	ND	ND	ND
1,2-Dichlorobenzene	0.2	1.0	2.8	ND	ND
1,3-Dichlorobenzene	0.3	1.3	ND	ND	ND
1,4-Dichlorobenzene	0.3	1.2	ND	ND	ND
3,3'-Dichlorobenzidine	0.7	3.3	ND	ND	ND
2,4-Dichlorophenol	0.5	2.1	ND	ND	ND
Diethylphthalate	0.4	2.0	ND	ND	ND
2,4-Dimethylphenol	0.6	2.7	61	ND	ND
Dimethylphthalate	0.4	1.6	ND	ND	ND
4,6-Dinitro-2-methylphenol	9.6	47.7	ND	ND	ND
2,4-Dinitrophenol	15.2	75.7	ND	ND	ND
2,4-Dinitrotoluene	2.6	12.8	ND	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 20841-2

DOUGLASSVILLE
SAMPLE # A-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP Extraction (Date/Init) : 9/6/92, EC
ANALYSIS (Date/Time/Init): 9/25/92, 18:56, TAG
EXTRACTION (Date / Init) : 9/8/92, ET

REPORTED: 9/28/92

Dilution 1.000
Extract Method: 3510

Sample Matrix: TCLP Extract
Analysis Method: 8270

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
2,6-Dinitrotoluene	1.8	8.8	ND	ND	ND
Di-n-octyl phthalate	0.7	3.2	ND	ND	ND
Fluoranthene	0.2	0.8	ND	ND	ND
Fluorene	0.5	2.5	ND	ND	ND
Hexachlorobenzene	0.6	2.7	ND	ND	ND
Hexachlorobutadiene	0.4	1.7	ND	ND	ND
Hexachlorocyclopentadiene	1.8	8.8	ND	ND	ND
Hexachloroethane	0.7	3.1	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.3	1.3	ND	ND	ND
Isophorone	0.3	1.5	5.9	ND	ND
2-Methylnaphthalene	0.2	1.0	6.2	ND	ND
2-Methylphenol	0.3	1.3	25	ND	ND
4-Methylphenol	0.4	1.5	36	ND	ND
Naphthalene	0.2	0.6	14	ND	ND
2-Nitroaniline	0.5	2.2	ND	ND	ND
3-Nitroaniline	1.7	8.5	ND	ND	ND
4-Nitroaniline	0.9	4.2	ND	ND	ND
Nitrobenzene	0.3	1.5	ND	ND	ND
2-Nitrophenol	0.6	2.8	ND	ND	ND
4-Nitrophenol	6.5	32.2	ND	ND	ND
N-Nitrosodiphenylamine*	0.2	0.8	ND	ND	ND
N-Nitrosodi-n-propylamine	0.4	2.0	ND	ND	ND
Pentachlorophenol	7.7	38.6	ND	ND	ND
Phenanthrene	0.2	0.8	ND	ND	ND
Phenol	0.3	1.4	35	ND	ND
Pyrene	0.5	2.4	ND	ND	ND
1,2,4-Trichlorobenzene	0.4	1.9	ND	ND	ND
2,4,5-Trichlorophenol	1.4	7.0	ND	ND	ND
2,4,6-Trichlorophenol	2.1	10.5	ND	ND	ND
SURROGATE RECOVERIES					
2-Fluorophenol (surrogate std)	[OK=21-110]		52	42	56
Phenol-d6 (surrogate std)	[OK=10-110]		39	24	40
Nitrobenzene-d5 (surrogate std)	[OK=35-114]		68	74	33**
2-Fluorobiphenyl (surrogate std)	[OK=43-116]		73	76	36**
2,4,6-Tribromophenol (surrogate std)	[OK=10-123]		111	92	76
Terphenyl-d14 (surrogate std)	[OK=33-141]		70	81	38

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

* as diphenylamine
** SEE CASE NARRATIVE

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-3

DOUGLASSVILLE
SAMPLE # A-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP Extraction (Date/Init) : 9/6/92, EC
ANALYSIS (Date/Time/Init): 9/25/92, 19:46, TAG
EXTRACTION (Date / Init) : 9/8/92, ET

REPORTED: 9/28/92

Dilution 1.000 Sample Matrix: TCLP Extract
Extract Method: 3510 Analysis Method: 8270

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Acenaphthene	0.4	2.0	ND	ND	ND
Acenaphthylene	0.5	2.1	ND	ND	ND
Anthracene	0.3	1.3	ND	ND	ND
Benz[a]anthracene	0.2	1.0	ND	ND	ND
Benzo[b]fluoranthene	0.3	1.2	ND	ND	ND
Benzo[k]fluoranthene	0.2	0.8	ND	ND	ND
Benzoic acid	6.5	32.3	ND	ND	ND
Benzo[ghi]perylene	0.2	0.9	ND	ND	ND
Benzo[a]pyrene	0.2	1.0	ND	ND	ND
Benzyl alcohol	0.3	1.5	ND	ND	ND
bis(2-Chloroethoxy)methane	0.3	1.2	ND	ND	ND
bis(2-Chloroethyl)ether	0.3	1.4	5.6	ND	ND
bis(2-Chloroisopropyl)ether	0.5	2.1	ND	ND	ND
bis(2-Ethylhexyl)phthalate	0.4	2.0	ND	ND	ND
4-Bromophenyl phenyl ether	0.4	1.6	ND	ND	ND
Butyl benzyl phthalate	0.5	2.1	ND	ND	ND
4-Chloroaniline	0.3	1.2	7.6	ND	ND
4-Chloro-3-methylphenol	0.6	2.7	ND	ND	ND
2-Chloronaphthalene	0.3	1.1	ND	ND	ND
2-Chlorophenol	0.2	1.0	ND	ND	ND
4-Chlorophenyl phenyl ether	0.6	2.7	ND	ND	ND
Chrysene	0.4	1.9	ND	ND	ND
Dibenz[a,h]anthracene	0.2	0.9	ND	ND	ND
Dibenzofuran	0.5	2.5	ND	ND	ND
Di-n-butylphthalate	0.3	1.2	1.4E	ND	ND
1,2-Dichlorobenzene	0.2	1.0	4.5	ND	ND
1,3-Dichlorobenzene	0.3	1.3	ND	ND	ND
1,4-Dichlorobenzene	0.3	1.2	ND	ND	ND
3,3'-Dichlorobenzidine	0.7	3.3	ND	ND	ND
2,4-Dichlorophenol	0.5	2.1	ND	ND	ND
Diethylphthalate	0.4	2.0	ND	ND	ND
2,4-Dimethylphenol	0.6	2.7	140	ND	ND
Dimethylphthalate	0.4	1.6	ND	ND	ND
4,6-Dinitro-2-methylphenol	9.6	47.7	ND	ND	ND
2,4-Dinitrophenol	15.2	75.7	ND	ND	ND
2,4-Dinitrotoluene	2.6	12.8	ND	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301397

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-3

DOUGLASSVILLE
SAMPLE # A-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP Extraction (Date/Init) : 9/6/92, EC
ANALYSIS (Date/Time/Init): 9/25/92, 19:46, TAG
EXTRACTION (Date / Init) : 9/8/92, ET

REPORTED: 9/28/92

Dilution 1.000 Sample Matrix: TCLP Extract
Extract Method: 3510 Analysis Method: 8270

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
2,6-Dinitrotoluene	1.8	8.8	ND	ND	ND
Di-n-octyl phthalate	0.7	3.2	ND	ND	ND
Fluoranthene	0.2	0.8	ND	ND	ND
Fluorene	0.5	2.5	ND	ND	ND
Hexachlorobenzene	0.6	2.7	ND	ND	ND
Hexachlorobutadiene	0.4	1.7	ND	ND	ND
Hexachlorocyclopentadiene	1.8	8.8	ND	ND	ND
Hexachloroethane	0.7	3.1	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.3	1.3	ND	ND	ND
Isophorone	0.3	1.5	11	ND	ND
2-Methylnaphthalene	0.2	1.0	12	ND	ND
2-Methylphenol	0.3	1.3	63	ND	ND
4-Methylphenol	0.4	1.5	49	ND	ND
Naphthalene	0.2	0.6	27	ND	ND
2-Nitroaniline	0.5	2.2	ND	ND	ND
3-Nitroaniline	1.7	8.5	ND	ND	ND
4-Nitroaniline	0.9	4.2	ND	ND	ND
Nitrobenzene	0.3	1.5	ND	ND	ND
2-Nitrophenol	0.6	2.8	ND	ND	ND
4-Nitrophenol	6.5	32.2	ND	ND	ND
N-Nitrosodiphenylamine*	0.2	0.8	ND	ND	ND
N-Nitrosodi-n-propylamine	0.4	2.0	ND	ND	ND
Pentachlorophenol	7.7	38.6	ND	ND	ND
Phenanthrene	0.2	0.8	ND	ND	ND
Phenol	0.3	1.4	37	ND	ND
Pyrene	0.5	2.4	ND	ND	ND
1,2,4-Trichlorobenzene	0.4	1.9	ND	ND	ND
2,4,5-Trichlorophenol	1.4	7.0	ND	ND	ND
2,4,6-Trichlorophenol	2.1	10.5	ND	ND	ND
SURROGATE RECOVERIES					
2-Fluorophenol (surrogate std)	[OK=21-110]		52	42	56
Phenol-d6 (surrogate std)	[OK=10-110]		44	24	40
Nitrobenzene-d5 (surrogate std)	[OK=35-114]		78	74	33**
2-Fluorobiphenyl (surrogate std)	[OK=43-116]		78	76	36**
2,4,6-Tribromophenol (surrogate std)	[OK=10-123]		114	92	76
Terphenyl-d14 (surrogate std)	[OK=33-141]		74	81	38

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

* as diphenylamine
** SEE CASE NARRATIVE

Michael Hayes

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-7

DOUGLASSVILLE
SAMPLE # B-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP Extraction (Date/Init) : 9/6/92, EC
ANALYSIS (Date/Time/Init): 9/25/92, 20:36, TAG
EXTRACTION (Date / Init) : 9/8/92, ET

REPORTED: 9/28/92

Dilution 1.000 | Sample Matrix: TCLP Extract
Extract Method: 3510 | Analysis Method: 8270

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Acenaphthene	0.4	2.0	ND	ND	ND
Acenaphthylene	0.5	2.1	ND	ND	ND
Anthracene	0.3	1.3	ND	ND	ND
Benz[a]anthracene	0.2	1.0	ND	ND	ND
Benzo[b]fluoranthene	0.3	1.2	ND	ND	ND
Benzo[k]fluoranthene	0.2	0.8	ND	ND	ND
Benzoic acid	6.5	32.3	38E	ND	ND
Benzo[ghi]perylene	0.2	0.9	ND	ND	ND
Benzo[a]pyrene	0.2	1.0	ND	ND	ND
Benzyl alcohol	0.3	1.5	ND	ND	ND
bis(2-Chloroethoxy)methane	0.3	1.2	ND	ND	ND
bis(2-Chloroethyl)ether	0.3	1.4	3.0E	ND	ND
bis(2-Chloroisopropyl)ether	0.5	2.1	ND	ND	ND
bis(2-Ethylhexyl)phthalate	0.4	2.0	ND	ND	ND
4-Bromophenyl phenyl ether	0.4	1.6	ND	ND	ND
Butyl benzyl phthalate	0.5	2.1	ND	ND	ND
4-Chloroaniline	0.3	1.2	ND	ND	ND
4-Chloro-3-methylphenol	0.6	2.7	ND	ND	ND
2-Chloronaphthalene	0.3	1.1	ND	ND	ND
2-Chlorophenol	0.2	1.0	ND	ND	ND
4-Chlorophenyl phenyl ether	0.6	2.7	ND	ND	ND
Chrysene	0.4	1.9	ND	ND	ND
Dibenz[a,h]anthracene	0.2	0.9	ND	ND	ND
Dibenzofuran	0.5	2.5	ND	ND	ND
Di-n-butylphthalate	0.3	1.2	1.6E	ND	ND
1,2-Dichlorobenzene	0.2	1.0	2.8	ND	ND
1,3-Dichlorobenzene	0.3	1.3	ND	ND	ND
1,4-Dichlorobenzene	0.3	1.2	ND	ND	ND
3,3'-Dichlorobenzidine	0.7	3.3	ND	ND	ND
2,4-Dichlorophenol	0.5	2.1	ND	ND	ND
Diethylphthalate	0.4	2.0	ND	ND	ND
2,4-Dimethylphenol	0.6	2.7	120	ND	ND
Dimethylphthalate	0.4	1.6	ND	ND	ND
4,6-Dinitro-2-methylphenol	9.6	47.7	ND	ND	ND
2,4-Dinitrophenol	15.2	75.7	ND	ND	ND
2,4-Dinitrotoluene	2.6	12.8	ND	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 20841-7

DOUGLASSVILLE
SAMPLE # B-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP Extraction (Date/Init) : 9/6/92, EC
ANALYSIS (Date/Time/Init): 9/25/92, 20:36, TAG
EXTRACTION (Date / Init) : 9/8/92, ET

REPORTED: 9/28/92

Dilution 1.000
Extract Method: 3510

Sample Matrix: TCLP Extract
Analysis Method: 8270

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
2,6-Dinitrotoluene	1.8	8.8	ND	ND	ND
Di-n-octyl phthalate	0.7	3.2	ND	ND	ND
Fluoranthene	0.2	0.8	ND	ND	ND
Fluorene	0.5	2.5	ND	ND	ND
Hexachlorobenzene	0.6	2.7	ND	ND	ND
Hexachlorobutadiene	0.4	1.7	ND	ND	ND
Hexachlorocyclopentadiene	1.8	8.8	ND	ND	ND
Hexachloroethane	0.7	3.1	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.3	1.3	ND	ND	ND
Isophorone	0.3	1.5	12	ND	ND
2-Methylnaphthalene	0.2	1.0	9.5	ND	ND
2-Methylphenol	0.3	1.3	34	ND	ND
4-Methylphenol	0.4	1.5	47	ND	ND
Naphthalene	0.2	0.6	20	ND	ND
2-Nitroaniline	0.5	2.2	ND	ND	ND
3-Nitroaniline	1.7	8.5	ND	ND	ND
4-Nitroaniline	0.9	4.2	ND	ND	ND
Nitrobenzene	0.3	1.5	ND	ND	ND
2-Nitrophenol	0.6	2.8	ND	ND	ND
4-Nitrophenol	6.5	32.2	ND	ND	ND
N-Nitrosodiphenylamine*	0.2	0.8	ND	ND	ND
N-Nitrosodi-n-propylamine	0.4	2.0	ND	ND	ND
Pentachlorophenol	7.7	38.6	ND	ND	ND
Phenanthrene	0.2	0.8	ND	ND	ND
Phenol	0.3	1.4	27	ND	ND
Pyrene	0.5	2.4	ND	ND	ND
1,2,4-Trichlorobenzene	0.4	1.9	ND	ND	ND
2,4,5-Trichlorophenol	1.4	7.0	ND	ND	ND
2,4,6-Trichlorophenol	2.1	10.5	ND	ND	ND
SURROGATE RECOVERIES					
2-Fluorophenol (surrogate std)	[OK=21-110]		54	42	56
Phenol-d6 (surrogate std)	[OK=10-110]		37	24	40
Nitrobenzene-d5 (surrogate std)	[OK=35-114]		70	74	33**
2-Fluorobiphenyl (surrogate std)	[OK=43-116]		72	76	36**
2,4,6-Tribromophenol (surrogate std)	[OK=10-123]		115	92	76
Terphenyl-d14 (surrogate std)	[OK=33-141]		74	81	38

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

* as diphenylamine
** SEE CASE NARRATIVE

Michael Hayes

KIBER Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 20841-8

DOUGLASSVILLE
SAMPLE # B-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP Extraction (Date/Init) : 9/6/92, EC
ANALYSIS (Date/Time/Init): 9/25/92, 21:26, TAG
EXTRACTION (Date / Init) : 9/8/92, ET

REPORTED: 9/28/92

Dilution 1.000
Extract Method: 3510

Sample Matrix: TCLP Extract
Analysis Method: 8270

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Acenaphthene	0.4	2.0	ND	ND	ND
Acenaphthylene	0.5	2.1	ND	ND	ND
Anthracene	0.3	1.3	ND	ND	ND
Benz[a]anthracene	0.2	1.0	ND	ND	ND
Benzo[b]fluoranthene	0.3	1.2	ND	ND	ND
Benzo[k]fluoranthene	0.2	0.8	ND	ND	ND
Benzoic acid	6.5	32.3	ND	ND	ND
Benzo[ghi]perylene	0.2	0.9	ND	ND	ND
Benzo[a]pyrene	0.2	1.0	ND	ND	ND
Benzyl alcohol	0.3	1.5	ND	ND	ND
bis(2-Chloroethoxy)methane	0.3	1.2	ND	ND	ND
bis(2-Chloroethyl)ether	0.3	1.4	3.2E	ND	ND
bis(2-Chloroisopropyl)ether	0.5	2.1	ND	ND	ND
bis(2-Ethylhexyl)phthalate	0.4	2.0	ND	ND	ND
4-Bromophenyl phenyl ether	0.4	1.6	ND	ND	ND
Butyl benzyl phthalate	0.5	2.1	ND	ND	ND
4-Chloroaniline	0.3	1.2	ND	ND	ND
4-Chloro-3-methylphenol	0.6	2.7	ND	ND	ND
2-Chloronaphthalene	0.3	1.1	ND	ND	ND
2-Chlorophenol	0.2	1.0	ND	ND	ND
4-Chlorophenyl phenyl ether	0.6	2.7	ND	ND	ND
Chrysene	0.4	1.9	ND	ND	ND
Dibenz[a,h]anthracene	0.2	0.9	ND	ND	ND
Dibenzofuran	0.5	2.5	ND	ND	ND
Di-n-butylphthalate	0.3	1.2	1.2E	ND	ND
1,2-Dichlorobenzene	0.2	1.0	2.9	ND	ND
1,3-Dichlorobenzene	0.3	1.3	ND	ND	ND
1,4-Dichlorobenzene	0.3	1.2	ND	ND	ND
3,3'-Dichlorobenzidine	0.7	3.3	ND	ND	ND
2,4-Dichlorophenol	0.5	2.1	ND	ND	ND
Diethylphthalate	0.4	2.0	ND	ND	ND
2,4-Dimethylphenol	0.6	2.7	151	ND	ND
Dimethylphthalate	0.4	1.6	ND	ND	ND
4,6-Dinitro-2-methylphenol	9.6	47.7	ND	ND	ND
2,4-Dinitrophenol	15.2	75.7	ND	ND	ND
2,4-Dinitrotoluene	2.6	12.8	ND	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301401

KIBER Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 20841-8

DOUGLASSVILLE
SAMPLE # B-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP Extraction (Date/Init) : 9/6/92, EC
ANALYSIS (Date/Time/Init): 9/25/92, 21:26, TAG
EXTRACTION (Date / Init) : 9/8/92, ET

REPORTED: 9/28/92

Dilution 1.000
Extract Method: 3510

Sample Matrix: TCLP Extract
Analysis Method: 8270

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
2,6-Dinitrotoluene	1.8	8.8	ND	ND	ND
Di-n-octyl phthalate	0.7	3.2	ND	ND	ND
Fluoranthene	0.2	0.8	ND	ND	ND
Fluorene	0.5	2.5	ND	ND	ND
Hexachlorobenzene	0.6	2.7	ND	ND	ND
Hexachlorobutadiene	0.4	1.7	ND	ND	ND
Hexachlorocyclopentadiene	1.8	8.8	ND	ND	ND
Hexachloroethane	0.7	3.1	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.3	1.3	ND	ND	ND
Isophorone	0.3	1.5	8.5	ND	ND
2-Methylnaphthalene	0.2	1.0	10	ND	ND
2-Methylphenol	0.3	1.3	47	ND	ND
4-Methylphenol	0.4	1.5	53	ND	ND
Naphthalene	0.2	0.6	22	ND	ND
2-Nitroaniline	0.5	2.2	ND	ND	ND
3-Nitroaniline	1.7	8.5	ND	ND	ND
4-Nitroaniline	0.9	4.2	ND	ND	ND
Nitrobenzene	0.3	1.5	ND	ND	ND
2-Nitrophenol	0.6	2.8	ND	ND	ND
4-Nitrophenol	6.5	32.2	ND	ND	ND
N-Nitrosodiphenylamine*	0.2	0.8	ND	ND	ND
N-Nitrosodi-n-propylamine	0.4	2.0	ND	ND	ND
Pentachlorophenol	7.7	38.6	ND	ND	ND
Phenanthrene	0.2	0.8	ND	ND	ND
Phenol	0.3	1.4	23	ND	ND
Pyrene	0.5	2.4	ND	ND	ND
1,2,4-Trichlorobenzene	0.4	1.9	ND	ND	ND
2,4,5-Trichlorophenol	1.4	7.0	ND	ND	ND
2,4,6-Trichlorophenol	2.1	10.5	ND	ND	ND
SURROGATE RECOVERIES					
2-Fluorophenol (surrogate std)	[OK=21-110]		52	42	56
Phenol-d6 (surrogate std)	[OK=10-110]		34	24	40
Nitrobenzene-d5 (surrogate std)	[OK=35-114]		66	74	33**
2-Fluorobiphenyl (surrogate std)	[OK=43-116]		72	76	36**
2,4,6-Tribromophenol (surrogate std)	[OK=10-123]		116	92	76
Terphenyl-d14 (surrogate std)	[OK=33-141]		72	81	38

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

* as diphenylamine
** SEE CASE NARRATIVE

Michael Hayes

AR301402

KIBER Environmental Services | GC/MS SVO RESULTS | LAB SAMPLE # 20841-9

DOUGLASSVILLE
SAMPLE # B-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP Extraction (Date/Init) : 9/6/92, EC
ANALYSIS (Date/Time/Init): 9/25/92, 22:17, TAG
EXTRACTION (Date / Init) : 9/8/92, ET

REPORTED: 9/28/92

Dilution 1.000 | Sample Matrix: TCLP Extract
Extract Method: 3510 | Analysis Method: 8270

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
Acenaphthene	0.4	2.0	ND	ND	ND
Acenaphthylene	0.5	2.1	ND	ND	ND
Anthracene	0.3	1.3	ND	ND	ND
Benz[a]anthracene	0.2	1.0	ND	ND	ND
Benzo[b]fluoranthene	0.3	1.2	ND	ND	ND
Benzo[k]fluoranthene	0.2	0.8	ND	ND	ND
Benzoic acid	6.5	32.3	ND	ND	ND
Benzo[ghi]perylene	0.2	0.9	ND	ND	ND
Benzo[a]pyrene	0.2	1.0	ND	ND	ND
Benzyl alcohol	0.3	1.5	ND	ND	ND
bis(2-Chloroethoxy)methane	0.3	1.2	ND	ND	ND
bis(2-Chloroethyl)ether	0.3	1.4	3.5	ND	ND
bis(2-Chloroisopropyl)ether	0.5	2.1	ND	ND	ND
bis(2-Ethylhexyl)phthalate	0.4	2.0	ND	ND	ND
4-Bromophenyl phenyl ether	0.4	1.6	ND	ND	ND
Butyl benzyl phthalate	0.5	2.1	ND	ND	ND
4-Chloroaniline	0.3	1.2	ND	ND	ND
4-Chloro-3-methylphenol	0.6	2.7	ND	ND	ND
2-Chloronaphthalene	0.3	1.1	ND	ND	ND
2-Chlorophenol	0.2	1.0	ND	ND	ND
4-Chlorophenyl phenyl ether	0.6	2.7	ND	ND	ND
Chrysene	0.4	1.9	ND	ND	ND
Dibenz[a,h]anthracene	0.2	0.9	ND	ND	ND
Dibenzofuran	0.5	2.5	ND	ND	ND
Di-n-butylphthalate	0.3	1.2	ND	ND	ND
1,2-Dichlorobenzene	0.2	1.0	3.4	ND	ND
1,3-Dichlorobenzene	0.3	1.3	ND	ND	ND
1,4-Dichlorobenzene	0.3	1.2	ND	ND	ND
3,3'-Dichlorobenzidine	0.7	3.3	ND	ND	ND
2,4-Dichlorophenol	0.5	2.1	ND	ND	ND
Diethylphthalate	0.4	2.0	ND	ND	ND
2,4-Dimethylphenol	0.6	2.7	86	ND	ND
Dimethylphthalate	0.4	1.6	ND	ND	ND
4,6-Dinitro-2-methylphenol	9.6	47.7	ND	ND	ND
2,4-Dinitrophenol	15.2	75.7	ND	ND	ND
2,4-Dinitrotoluene	2.6	12.8	ND	ND	ND

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services

GC/MS SVO RESULTS

LAB SAMPLE # 20841-9

DOUGLASSVILLE
SAMPLE # B-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP Extraction (Date/Init) : 9/6/92, EC
ANALYSIS (Date/Time/Init): 9/25/92, 22:17, TAG
EXTRACTION (Date / Init) : 9/8/92, ET

REPORTED: 9/28/92

Dilution 1.000
Extract Method: 3510

Sample Matrix: TCLP Extract
Analysis Method: 8270

TARGET COMPOUND LIST	MDL	PQL	Concentration ug/L	Blank Conc. ug/L	TCLP Blank ug/L
2,6-Dinitrotoluene	1.8	8.8	ND	ND	ND
Di-n-octyl phthalate	0.7	3.2	ND	ND	ND
Fluoranthene	0.2	0.8	ND	ND	ND
Fluorene	0.5	2.5	ND	ND	ND
Hexachlorobenzene	0.6	2.7	ND	ND	ND
Hexachlorobutadiene	0.4	1.7	ND	ND	ND
Hexachlorocyclopentadiene	1.8	8.8	ND	ND	ND
Hexachloroethane	0.7	3.1	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.3	1.3	ND	ND	ND
Isophorone	0.3	1.5	6.0	ND	ND
2-Methylnaphthalene	0.2	1.0	9.1	ND	ND
2-Methylphenol	0.3	1.3	26	ND	ND
4-Methylphenol	0.4	1.5	28	ND	ND
Naphthalene	0.2	0.6	19	ND	ND
2-Nitroaniline	0.5	2.2	ND	ND	ND
3-Nitroaniline	1.7	8.5	ND	ND	ND
4-Nitroaniline	0.9	4.2	ND	ND	ND
Nitrobenzene	0.3	1.5	ND	ND	ND
2-Nitrophenol	0.6	2.8	ND	ND	ND
4-Nitrophenol	6.5	32.2	ND	ND	ND
N-Nitrosodiphenylamine*	0.2	0.8	ND	ND	ND
N-Nitrosodi-n-propylamine	0.4	2.0	ND	ND	ND
Pentachlorophenol	7.7	38.6	ND	ND	ND
Phenanthrene	0.2	0.8	ND	ND	ND
Phenol	0.3	1.4	23	ND	ND
Pyrene	0.5	2.4	ND	ND	ND
1,2,4-Trichlorobenzene	0.4	1.9	ND	ND	ND
2,4,5-Trichlorophenol	1.4	7.0	ND	ND	ND
2,4,6-Trichlorophenol	2.1	10.5	ND	ND	ND
SURROGATE RECOVERIES					
2-Fluorophenol (surrogate std)	[OK=21-110]		54	42	56
Phenol-d6 (surrogate std)	[OK=10-110]		37	24	40
Nitrobenzene-d5 (surrogate std)	[OK=35-114]		78	74	33**
2-Fluorobiphenyl (surrogate std)	[OK=43-116]		75	76	36**
2,4,6-Tribromophenol (surrogate std)	[OK=10-123]		113	92	76
Terphenyl-d14 (surrogate std)	[OK=33-141]		76	81	38

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

* as diphenylamine
** SEE CASE NARRATIVE

AR301404

Michael Hayes

TCLP Lead

KIBER ENVIRONMENTAL SERVICES PROJECT#: 20841

METAL RESULTS

PROJECT NAME: DOUGLASSVILLE
MATRIX : WATER
TCLP EXTRACT (Date/Init.): 9/2/92, EC
SAMPLED (Date/Time): 8/27/92, 14:00, RS
ANALYTE: LEAD
EPA METHOD: 6010
ICP ANALYSIS (Date/Init) : 9/3/92, KMC

KES SAMPLE #	ASD #	DL	Result	Units
A-1	20841-1	.028	.95	mg/L
A-2	20841-2	.028	1.5	mg/L
A-3	20841-3	.028	1.1	mg/L
B-1	20841-7	.028	.57	mg/L
B-2	20841-8	.028	.46	mg/L
B-3	20841-9	.028	.87	mg/L

DL : Detection Limit

Michael Hayes

Total PCBs

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-1

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # A-1

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/18/92, 22:50, RGB
EXTRACTED (Date / Init) : 9/1/92, ET

Dilution Factor: 1.0
Extract Method: 3550
% Moisture: 17.2

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	45,000	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]	146	138
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]		

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Gary Buggeist

AR301408

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-2

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # A-2

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/18/92, 23:47, RGB
EXTRACTED (Date / Init) : 9/1/92, ET

Dilution Factor: 1.0
Extract Method: 3550
% Moisture: 17.4

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	61,000	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]	149	138
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]		

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Stacy Buggieri

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-3

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # A-3

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/19/92, 00:43, RGB
EXTRACTED (Date / Init) : 9/1/92, ET

Dilution Factor: 1.0
Extract Method: 3550
% Moisture: 17.5

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	70,000	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]	126	138
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]		

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Gary Burgess

AR301410

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-7

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # B-1

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/19/92, 04:29, RGB
EXTRACTED (Date / Init) : 9/1/92, ET

Dilution Factor: 1.0
Extract Method: 3550
% Moisture: 16.9

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	72,000	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]	138	138
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]		

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Stacy Buzzquist

AR301411

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-8

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # B-2

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/19/92, 05:25, RGB
EXTRACTED (Date / Init) : 9/1/92, ET

Dilution Factor: 1.0
Extract Method: 3550
% Moisture: 18.8

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	61,000	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]	148	138
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]		

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Gary Burgess

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-9

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # B-3

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/19/92, 06:22, RGB
EXTRACTED (Date / Init) : 9/1/92, ET

Dilution Factor: 1.0
Extract Method: 3550
% Moisture: 18.1

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	86,000	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]	133	138
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]		

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Gary Burgess

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-4

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # AC-1

REPORTED: 9/1/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/19/92, 01:40, RGB
EXTRACTED (Date / Init) : 9/1/92, ET

Dilution Factor: 1.0
Extract Method: 3550
% Moisture: 16.6

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	69,000	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]	141	138
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]		

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Gary Burgess

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-5

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # AC-2

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/19/92, 02:36, RGB
EXTRACTED (Date / Init) : 9/1/92, ET

Dilution Factor: 1.0
Extract Method: 3550
% Moisture: 15.4

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	34,000	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]	141	138
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]		

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Stacy Buggins

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-6

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # AC-3

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/19/92, 03:33, RGB
EXTRACTED (Date / Init) : 9/1/92, ET

Dilution Factor: 1.0
Extract Method: 3550
% Moisture: 19.2

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	36,000	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]	138	138
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]		

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-10

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # BC-1

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/19/92, 07:18, RGB
EXTRACTED (Date / Init) : 9/1/92, ET

Dilution Factor: 1.0
Extract Method: 3550
% Moisture: 18.6

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	110,000	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]	145	138
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]		

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Stacey Bugquist

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-11

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # BC-2

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/19/92, 10:06, RGB
EXTRACTED (Date / Init) : 9/1/92, ET

Dilution Factor: 1.0
Extract Method: 3550
% Moisture: 21.3

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	82,000	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]	144	138
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]		

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Stacy Burgess

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-12

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # BC-3

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/19/92, 11:03, RGB
EXTRACTED (Date / Init) : 9/1/92, ET

Dilution Factor: 1.0
Extract Method: 3550
% Moisture: 17.7

Sample Matrix: SOLID
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	Dry-weight Basis ug/Kg Concentration	Apparent ug/Kg Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	96,000	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]	144	138
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]		

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Stacy Burgess

KIBER Environmental Services

PCB MATRIX SPIKE RESULTS

LAB SAMPLE # 20841-01

DOUGLASSVILLE

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS(Date/Time/Init): 9/22/92, 04:34, RGB
EXTRACTED (Date / Init) : 9/1/92, ET
Sample Matrix: SOIL
Analysis Method: 8080

MATRIX SPIKE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery
Aroclor-1260	11096-82-5	NE	80.5

NE= Not Established

Michael Hay

KIBER Environmental Services

PCB MATRIX SPIKE RESULTS

LAB SAMPLE # 20841-11

DOUGLASSVILLE

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS(Date/Time/Init): 9/22/92, 05:30, RGB
EXTRACTED (Date / Init) : 9/1/92, ET
Sample Matrix: SOIL
Analysis Method: 8080

MATRIX SPIKE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery
Aroclor-1260	11096-82-5	NE	494

NE= Not Established

Michael Hayes

TCLP PCBs

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-1

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # A-1

RPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACTION(Date/Init.): 9/2/92, EC
ANALYSIS (Date/Time/Init): 9/17/92, 21:14, RGB
EXTRACTED (Date / Init) : 9/8/92, ET

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: WATER
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]		
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	106	110

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Gary Burgess

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-2

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # A-2

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACTION(Date/Init.): 9/2/92, EC
ANALYSIS (Date/Time/Init): 9/17/92, 22:11, RGB
EXTRACTED (Date / Init) : 9/8/92, ET

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: WATER
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]		
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	123	110

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Gary Guggenist

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-3

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # A-3

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACTION(Date/Init.): 9/2/92, EC
ANALYSIS (Date/Time/Init): 9/17/92, 23:07, RGB
EXTRACTED (Date / Init) : 9/8/92, ET

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: WATER
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]		
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	119	110

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Stacy Guggenist

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-4

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # AC-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACTION(Date/Init.): 9/2/92, EC
ANALYSIS (Date/Time/Init): 9/18/92, 00:04, RGB
EXTRACTED (Date / Init) : 9/8/92, ET

REPORTED: 9/21/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: WATER
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]		
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	101	110

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Stacy Bergquist

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-5

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # AC-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACTION(Date/Init.): 9/2/92, EC
ANALYSIS (Date/Time/Init): 9/18/92, 01:00, RGB
EXTRACTED (Date / Init) : 9/8/92, ET

REPORTED: 9/21/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: WATER
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]		
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	108	110

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Stacy Burgess

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-6

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # AC-3

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACTION(Date/Init.): 9/2/92, EC
ANALYSIS (Date/Time/Init): 9/18/92, 01:56, RGB
EXTRACTED (Date / Init) : 9/8/92, ET

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: WATER
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]		
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	106	110

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Gary Cuggiust

AR301428

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-7

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # B-1

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACTION(Date/Init.): 9/2/92, EC
ANALYSIS (Date/Time/Init): 9/18/92, 02:52, RGB
EXTRACTED (Date / Init) : 9/8/92, ET

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: WATER
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]		
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	116	110

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Stacy Buggeist

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-8

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # B-2

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACTION(Date/Init.): 9/2/92, EC
ANALYSIS (Date/Time/Init): 9/18/92, 03:48, RGB
EXTRACTED (Date / Init) : 9/8/92, ET

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: WATER
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]		
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	107	110

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Nancy Buggiust

AR301430

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-9

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # B-3

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACTION(Date/Init.): 9/2/92, EC
ANALYSIS (Date/Time/Init): 9/18/92, 04:44, RGB
EXTRACTED (Date / Init) : 9/8/92, ET

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: WATER
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]		
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	116	110

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Gary Buggeret

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-10

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # BC-1

REPORTED: 9/21/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACTION(Date/Init.): 9/2/92, EC
ANALYSIS (Date/Time/Init): 9/18/92, 05:40, RGB
EXTRACTED (Date / Init) : 9/8/92, ET

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: WATER
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]		
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	87	110

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Stacy Buggins

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-11

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # BC-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACTION(Date/Init.): 9/2/92, EC
ANALYSIS (Date/Time/Init): 9/18/92, 08:44, RGB
EXTRACTED (Date / Init) : 9/8/92, ET

REPORTED: 9/21/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: WATER
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]		
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	85	116

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Gary Bergquist

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20841-12

GC PCB RESULTS

DOUGLASSVILLE
SAMPLE # BC-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
TCLP EXTRACTION(Date/Init.): 9/2/92, EC
ANALYSIS (Date/Time/Init): 9/18/92, 09:40, RGB
EXTRACTED (Date / Init) : 9/8/92, ET

REPORTED: 9/21/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: WATER
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND

T-M-X (surrogate std)	% Recovery	[OK = 20-150]		
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	88	110

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Stacy Berggren

KIBER Environmental Services

PCB MATRIX SPIKE RESULTS

LAB SAMPLE # 20841-2

DOUGLASSVILLE
TCLP EXTRACT

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS(Date/Time/Init): 9/22/92, 08:19, RGB
EXTRACTED (Date / Init) : 9/8/92, ET
Sample Matrix: WATER
Analysis Method: 8080

MATRIX SPIKE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery
Aroclor-1260	11096-82-5	NE	17

NE= Not Established

Michael Hayes

KIBER Environmental Services

PCB MATRIX SPIKE RESULTS

LAB SAMPLE # 20841-11

DOUGLASSVILLE
TCLP EXTRACT

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS(Date/Time/Init): 9/22/92, 09:15, RGB
EXTRACTED (Date / Init) : 9/8/92, ET
Sample Matrix: WATER
Analysis Method: 8080

MATRIX SPIKE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery
Aroclor-1260	11096-82-5	NE	75.8

NE= Not Established

Michael Hayes

TPH Volatiles

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-1

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # A-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 16:57, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: Other semivolatile hydrocarbons detected.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-2

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # A-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 17:23, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: Other semivolatile hydrocarbons detected.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-3

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # A-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 17:58, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: Other semivolatile hydrocarbons detected.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-4

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # AC-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 18:26, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: Other semivolatile hydrocarbons detected.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-5

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # AC-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 18:53, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: Other semivolatile hydrocarbons detected.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-6

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # AC-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 19:21, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: Other semivolatile hydrocarbons detected.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-7

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # B-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 19:48, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: Other semivolatile hydrocarbons detected.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-8

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # B-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 20:14, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: Other semivolatile hydrocarbons detected.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-9

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # B-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 20:41, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: Other semivolatile hydrocarbons detected.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-10

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # BC-1

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 21:08, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: Other semivolatile hydrocarbons detected.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-11

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # BC-2

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 21:52, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: Other semivolatile hydrocarbons detected.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-12

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # BC-3

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
ANALYSIS (Date/Time/Init): 9/3/92, 22:19, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: Other semivolatile hydrocarbons detected.

Michael Hayes

TPH Semivolatiles

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-1

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # A-1

REPORTED: 9/25/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
EXTRACTED (Date / Init) : 9/9/92, RGB
ANALYSIS (Date/Time/Init): 9/25/92, 01:29, RGB

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	1300	ND
Kerosene	0.5	ND	ND
Oil	0.5	96,000	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION:

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-2

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # A-2

REPORTED: 9/25/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
EXTRACTED (Date / Init) : 9/9/92, RGB
ANALYSIS (Date/Time/Init): 9/25/92, 04:58, RGB

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	2300	ND
Kerosene	0.5	ND	ND
Oil	0.5	97,000	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION:

Michael Hyn

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-3

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # A-3

REPORTED: 9/25/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
EXTRACTED (Date / Init) : 9/9/92, RGB
ANALYSIS (Date/Time/Init): 9/25/92, 08:25, RGB

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	2000	ND
Kerosene	0.5	ND	ND
Oil	0.5	100,000	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION:

Michael Hagan

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-4

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # AC-1

REPORTED: 9/25/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
EXTRACTED (Date / Init) : 9/9/92, RGB
ANALYSIS (Date/Time/Init): 9/25/92, 10:15, RGB

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	2200	ND
Kerosene	0.5	ND	ND
Oil	0.5	89,000	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION:

Michael Hoyer

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-5

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # AC-2

REPORTED: 9/25/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
EXTRACTED (Date / Init) : 9/9/92, RGB
ANALYSIS (Date/Time/Init): 9/23/92, 15:56, RGB

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	1700	ND
Kerosene	0.5	ND	ND
Oil	0.5	73,000	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION:

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-6

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # AC-3

REPORTED: 9/25/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
EXTRACTED (Date / Init) : 9/9/92, RGB
ANALYSIS (Date/Time/Init): 9/23/92, 18:14, RGB

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	2200	ND
Kerosene	0.5	ND	ND
Oil	0.5	100,000	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION:

Michael Hyo

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-7

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # B-1

REPORTED: 9/25/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
EXTRACTED (Date / Init) : 9/9/92, RGB
ANALYSIS (Date/Time/Init): 9/23/92, 21:42, RGB

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	2800	ND
Kerosene	0.5	ND	ND
Oil	0.5	110,000	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION:

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-8

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # B-2

REPORTED: 9/25/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
EXTRACTED (Date / Init) : 9/9/92, RGB
ANALYSIS (Date/Time/Init): 9/23/92, 23:58, RGB

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	2400	ND
Kerosene	0.5	ND	ND
Oil	0.5	100,000	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION:

Michael L Hyer

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-9

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # B-3

REPORTED: 9/25/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
EXTRACTED (Date / Init) : 9/9/92, RGB
ANALYSIS (Date/Time/Init): 9/24/92, 03:24, RGB

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	1900	ND
Kerosene	0.5	ND	ND
Oil	0.5	110,000	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION:

Michael Hay

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-10

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # BC-1

REPORTED: 9/25/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
EXTRACTED (Date / Init) : 9/9/92, RGB
ANALYSIS (Date/Time/Init): 9/24/92, 05:40, RGB

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	1900	ND
Kerosene	0.5	ND	ND
Oil	0.5	72,000	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION:

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-11

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # BC-2

REPORTED: 9/25/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
EXTRACTED (Date / Init) : 9/9/92, RGB
ANALYSIS (Date/Time/Init): 9/24/92 09:06, RGB

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	2300	ND
Kerosene	0.5	ND	ND
Oil	0.5	110,000	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION:

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20841-12

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE
SAMPLE # BC-3

REPORTED: 9/25/92

SAMPLED (Date/Time/Init): 8/27/92, 14:00, RS
EXTRACTED (Date / Init) : 9/9/92 RGB
ANALYSIS (Date/Time/Init): 9/24/92, 11:26, RGB

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	2800	ND
Kerosene	0.5	ND	ND
Oil	0.5	120,000	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION:

Michael Hayes

KIBER
ENVIRONMENTAL SERVICES, INC.

29 September 1992

Mr. Richard A. Marton
Barr Engineering Company
8300 Norman Center Drive
Minneapolis, MN 55437

Subject: Final Analytical Results for Week One Samples
Douglassville Biological Study

Dear Rick:

Kiber Environmental Services, Inc. (Kiber) is pleased to present the final analytical results for the week one samples of the Douglassville biological study. The samples were submitted to Kiber by Bioremediation Services, Inc. (BSI) on 9 September 1992 via Federal Express. The analyses conducted were in accordance with your telefax to Kiber dated 24 July 1992. Included with this letter are results for the following analyses:

- Total Volatiles

Please note that the quality assurance information for each of the analyses, as specified in your telefax, is included with each set of analyses. If you should have any questions, please contact me.

Sincerely,
Kiber Environmental Services, Inc.

Stephen J. Zarlinski
Project Manager

Enclosure

512/SZ186

4000 Dekalb Technology Parkway, N.E. ▲ Suite 200 ▲ Atlanta, Georgia 30340-2763
(404) 455-3944 FAX (404) 451-0155

ANALYTICAL RESULTS

Week One Samples

Chain of Custody

Mail[illegible] dres[illegible] Box
Lake Oswego, Oreg[illegible]5
Delivery Address: 1[illegible] .W. Lower Boones Ferry Road
Portland, Oregon 97224
(503) 624-9464 (Office)
(503) 658-5268 (Fax)
(800) 775-9464 (Office)

CHAIN OF CUST[illegible]DY RECORD

EPA I.D. Number ORD 987173440

Bioremediation Service, Inc.
Natural Solutions for the Environment

Proj. No.: 38/06-001-BM-06
Project Name: DOUGLASSVILLE TREATABILITY STUDY
Samplers: (Signature): [illegible]

Site No	Date	Time	Grab	Comp	Station Location	No. of Containers							Remarks
A-1	9/4/92	2:00		✓	TRAY A-1	1							4 oz JAR FOR VOC
A-2	↓	↓		✓	TRAY A-2	↓							↓
A-3				✓	TRAY A-3								
AC-1				✓	TRAY AC-1								
AC-2				✓	TRAY AC-2								
AC-3				✓	TRAY AC-3								
B-1				✓	TRAY B-1								
B-2				✓	TRAY B-2								
B-3				✓	TRAY B-3								
BC-1				✓	TRAY BC-1								
BC-2				✓	TRAY BC-2								
BC-3	↓	↓		✓	TRAY BC-3	↓							↓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[illegible]	9/4/92	2:15	Stephen J. [illegible]				
Witnessed by: (Signature)	Date	Time		Witnessed by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Remarks			
Witnessed by: (Signature)	Date	Time					

AR301466

Total Volatiles

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20910-2

DOUGLASSVILLE
SAMPLE # A-2

SAMPLED (Date/Time/Init): 9/9/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/21/92, 21:54, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 21.2 Analysis Method: 8260

REPORTED: 9/29/92

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	ND	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	2700E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	ND	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	320	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	4300	24
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	350E	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	ND	ND
Toluene	108-88-3	20	98	130	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	ND	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	1700	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		99	97
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		100	101
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		101	103

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20910-3

DOUGLASSVILLE
SAMPLE # A-3

SAMPLED (Date/Time/Init): 9/9/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/21/92, 22:48, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 23.5 Analysis Method: 8260

REPORTED: 9/29/92

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	ND	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	ND	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	ND	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	550	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	3200	24
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	350	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	120	ND
Toluene	108-88-3	20	98	250	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	130	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	3000	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		91	97
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		99	101
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		99	103

E: Estimated, ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hay

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20910-7

DOUGLASSVILLE
SAMPLE # B-1

SAMPLED (Date/Time/Init): 9/9/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/22/92, 00:35, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 18.6 Analysis Method: 8260

REPORTED: 9/29/92

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	ND	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	3000E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	ND	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	490	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	2000	24
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	360E	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	95E	ND
Tetrachloroethene	127-18-4	12	61	140	ND
Toluene	108-88-3	20	98	230	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	150	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	2800	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		96	97
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		101	101
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		102	103

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301470

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20910-8

DOUGLASSVILLE
SAMPLE # B-2

SAMPLED (Date/Time/Init): 9/9/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/22/92, 01:02, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 22.7 Analysis Method: 8260

REPORTED: 9/29/92

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	ND	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	<MDL	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	ND	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	670	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	1700	24
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	440E	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	140	ND
Toluene	108-88-3	20	98	340	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	160	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	4000	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		94	97
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		101	101
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		97	103

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20910-1

DOUGLASSVILLE
SAMPLE # A-1

SAMPLED (Date/Time/Init): 9/9/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/21/92, 21:28, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 17.7 Analysis Method: 8260

REPORTED: 9/29/92

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	<MDL	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	2600E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	ND	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	510	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	4000	24
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	400E	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	120	ND
Toluene	108-88-3	20	98	250	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	150	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	2500	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		102	97
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		101	101
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		99	103

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hy

AR301472

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20910-9

DOUGLASSVILLE
SAMPLE # B-3

SAMPLED (Date/Time/Init): 9/9/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/22/92, 01:29, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 23.7 Analysis Method: 8260

REPORTED: 9/29/92

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	ND	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	3600E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	ND	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	760	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	1900	24
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	ND	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	190	ND
Toluene	108-88-3	20	98	470	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	ND	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	3200	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		96	97
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		104	101
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		101	103

E: Estimated, ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301473

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20910-4

DOUGLASSVILLE
SAMPLE # AC-1

SAMPLED (Date/Time/Init): 9/9/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/21/92, 23:15, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 21.6 Analysis Method: 8260

REPORTED: 9/29/92

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	ND	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	ND	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	ND	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	620	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	3700	24
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	410	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	150	ND
Toluene	108-88-3	20	98	350	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	180	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	3100	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		90	97
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		96	101
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		99	103

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301474

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20910-5

DOUGLASSVILLE
SAMPLE # AC-2

SAMPLED (Date/Time/Init): 9/9/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/21/92, 23:42, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 22.0 Analysis Method: 8260

REPORTED: 9/29/92

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	ND	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	3500E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	ND	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	720	ND
2-Hexanone	591-78-6	200	1000	410E	ND
Methylene chloride	75-09-2	90	450	2700	24
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	400E	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	150	ND
Toluene	108-88-3	20	98	410	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	200	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	3900	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		96	97
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		96	101
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		99	103

E: Estimated; ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301475

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20910-6

DOUGLASSVILLE
SAMPLE # AC-3

SAMPLED (Date/Time/Init): 9/9/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/22/92, 00:09, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 19.2 Analysis Method: 8260

REPORTED: 9/29/92

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	<MDL	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	ND	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	ND	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	1100	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	1700	24
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	ND	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	280	ND
Toluene	108-88-3	20	98	690	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	310	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	6400	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		92	97
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		102	101
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		102	103

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20910-10

DOUGLASSVILLE
SAMPLE # BC-1

SAMPLED (Date/Time/Init): 9/9/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/22/92, 13:58,TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 19.6 Analysis Method: 8260

REPORTED: 9/29/92

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	3400E	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	2800E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	ND	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	1100	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	980	7.6
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	320E	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	250	ND
Toluene	108-88-3	20	98	780	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	340	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	5900	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		100	105
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		100	102
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		102	106

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hazen

AR301477

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20910-11

DOUGLASSVILLE
SAMPLE # BC-2

SAMPLED (Date/Time/Init): 9/9/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/22/92, 14:25, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 25.6 Analysis Method: 8260

REPORTED: 9/29/92

	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	<MDL	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	3900E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	ND	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	1200	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	1100	7.6
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	430E	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	220	ND
Tetrachloroethene	127-18-4	12	61	290	ND
Toluene	108-88-3	20	98	840	ND
1,1,1-Trichloroethane	71-55-6	68	342	ND	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	410	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	5900	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		100	105
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		100	102
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		102	106

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20910-12

DOUGLASSVILLE
SAMPLE # BC-3

SAMPLED (Date/Time/Init): 9/9/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/22/92, 15:47, TAG
Dilution Factor: 100 Sample Matrix: SOLID
% Moisture: 22.5 Analysis Method: 8260

REPORTED: 9/29/92

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	1200	6000	2300E	ND
Benzene	71-43-2	13	63	ND	ND
Bromodichloromethane	75-27-4	14	67	ND	ND
Bromoform	75-25-2	11	56	ND	ND
Bromomethane	74-83-9	22	110	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1800	9000	4400E	ND
Carbon disulfide	75-15-0	14	69	ND	ND
Carbon tetrachloride	56-23-5	20	100	ND	ND
Chlorobenzene	108-90-7	19	95	ND	ND
Chloroethane	75-00-3	200	1000	ND	ND
Chloroform	67-66-3	21	103	ND	ND
Chloromethane	74-87-3	200	1000	ND	ND
Dibromochloromethane	124-48-1	7	36	ND	ND
1,1-Dichloroethane	75-34-3	15	74	ND	ND
1,2-Dichloroethane	107-06-2	10	48	ND	ND
1,1-Dichloroethene	75-35-4	17	87	ND	ND
1,2-Dichloroethene (total)	540-59-0	14	72	ND	ND
1,2-Dichloropropane	78-87-5	12	59	ND	ND
cis-1,3-Dichloropropene	10061-01-5	21	105	ND	ND
trans-1,3-Dichloropropene	10061-02-6	5	26	ND	ND
Ethylbenzene	100-41-4	11	54	1300	ND
2-Hexanone	591-78-6	200	1000	ND	ND
Methylene chloride	75-09-2	90	450	940	7.6
4-Methyl-2-pentanone (MIBK)	108-10-1	200	1000	730E	ND
Styrene	100-42-5	14	72	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	17	87	ND	ND
Tetrachloroethene	127-18-4	12	61	ND	ND
Toluene	108-88-3	20	98	290	ND
1,1,1-Trichloroethane	71-55-6	68	342	1000	ND
1,1,2-Trichloroethane	79-00-5	12	61	ND	ND
Trichloroethene	79-01-6	21	103	460	ND
Vinyl acetate	108-05-4	14	68	ND	ND
Vinyl chloride	75-01-4	200	1000	ND	ND
Xylenes (total)	1330-20-7	22	109	6900	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		100	105
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		100	102
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		103	106

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301479

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20910-11MS

DOUGLASSVILLE

SAMPLED (Date/Time/Init): 9/9/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/22/92, 14:52, TAG
Sample Matrix: SOLID
Analysis Method: 8260

MATRIX SPIKE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery
Benzene	71-43-2	66- 142	105
Chlorobenzene	108-90-7	60- 133	99
1,1-Dichloroethene	75-35-4	59- 172	83
Toluene	108-88-3	59- 139	106
Trichloroethene	79-01-6	62- 137	95
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]	95
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]	95
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]	100

ANALYSIS (Date/Time/Init): 9/22/92, 14:52, TAG

MATRIX SPIKE DUPLICATE	CAS Number	QC LIMITS % Recovery	Actual MSD % Recovery	% RPD
Benzene	71-43-2	66- 142	107	1.9
Chlorobenzene	108-90-7	60- 133	102	3.0
1,1-Dichloroethene	75-35-4	59- 172	86	3.6
Toluene	108-88-3	59- 139	109	2.8
Trichloroethene	79-01-6	62- 137	96	1.0
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]	98	
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]	100	
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]	107	

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20910

DOUGLASSVILLE

SAMPLED (Date/Time/Init): 9/9/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/21/92, 22:21, TAG
Sample Matrix: SOLID
Analysis Method: 8260

MATRIX SPIKE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery
Benzene	71-43-2	66- 142	111
Chlorobenzene	108-90-7	60- 133	109
1,1-Dichloroethene	75-35-4	59- 172	99
Toluene	108-88-3	59- 139	112
Trichloroethene	79-01-6	62- 137	108
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]	96
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]	103
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]	100

Michael Hazen

KIBER
ENVIRONMENTAL SERVICES, INC.

19 November 1992

Mr. Richard A. Marton
Barr Engineering Company
8300 Norman Center Drive
Minneapolis, MN 55437

Subject: Final Analytical Results for Week Two Samples
Douglassville Biological Study

Dear Rick:

Kiber Environmental Services, Inc. (Kiber) is pleased to present the final analytical results for the week two samples of the Douglassville biological study. The samples were submitted to Kiber by Bioremediation Services, Inc. (BSI) on 17 September 1992 via Federal Express. The analyses conducted were in accordance with your telefax to Kiber dated 24 July 1992. Included with this letter are results for the following analyses:

- Total Volatiles

Please note that the quality assurance information for each of the analyses, as specified in your telefax, is included with each set of analyses. If you should have any questions, please contact me.

Sincerely,
Kiber Environmental Services, Inc.

Stephen J. Zarlinski
Project Manager

Enclosure

512/SZ223

4000 Dekalb Technology Parkway, N.E. ▲ Suite 200 ▲ Atlanta, Georgia 30340-2763
(404) 455-3944 FAX (404) 451-0155

Volatile Analyses

...ivery Address: 1... W. Lower Boones Ferry Road
...rtland, Oregon 97...
...03) 624-9464 (Office)
...03) 658-5268 (Fax)
...00) 775-9464 (Office)

H... N... C... ST... D... RECORD

EPA I.D. Number ...D 987173440

Bioremediation Se..., Inc.
Natural Solutions for the Environment

Proj. No.	Project Name
38/06-001-RAY-06	DOUGLASSVILLE TREATABILITY STUDY

Samplers: (Signature) [signature]

Site No	Date	Time	Grab	Comp	Station Location	No. of Containers								Remarks
A-1	9/16/92	2:00		✓	TRAY A-1	1								4 OZ JAR FOR VOC
A-2				✓	TRAY A-2	1								
A-3				✓	TRAY A-3	1								
AC-1				✓	TRAY AC-1	1								
AC-2				✓	TRAY AC-2	1								
AC-3				✓	TRAY AC-3	1								
B-1				✓	TRAY B-1	1								
B-2				✓	TRAY B-2	1								
B-3				✓	TRAY B-3	1								
BC-1				✓	TRAY BC-1	1								
BC-2				✓	TRAY BC-2	1								
BC-3				✓	TRAY BC-3	1								

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	9/16/92	2:00	Mark W. Marlowe 9/17/92				
Witnessed by: (Signature)	Date	Time		Witnessed by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Remarks			
Witnessed by: (Signature)	Date	Time					

AR301484

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20926-1

DOUGLASSVILLE
SAMPLE # A-1

SAMPLED (Date/Time/Init): 9/16/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/25/92, 14:46, TAG
Dilution Factor: 60.59 Sample Matrix: SOLID
% Moisture: 17.48 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	727.1	3635.4	890E	ND
Benzene	71-43-2	7.6	37.9	ND	ND
Bromodichloromethane	75-27-4	8.2	40.9	ND	ND
Bromoform	75-25-2	6.8	33.9	ND	ND
Bromomethane	74-83-9	13.3	66.6	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1090.6	5453.1	2800E	ND
Carbon disulfide	75-15-0	8.3	41.7	ND	ND
Carbon tetrachloride	56-23-5	12.1	60.3	ND	ND
Chlorobenzene	108-90-7	11.5	57.5	ND	ND
Chloroethane	75-00-3	121.2	605.9	ND	ND
Chloroform	67-66-3	12.5	62.4	ND	ND
Chloromethane	74-87-3	121.2	605.9	ND	ND
Dibromochloromethane	124-48-1	4.4	21.9	ND	ND
1,1-Dichloroethane	75-34-3	9.0	45.0	ND	ND
1,2-Dichloroethane	107-06-2	5.8	28.9	ND	ND
1,1-Dichloroethene	75-35-4	10.6	52.8	ND	ND
1,2-Dichloroethene (total)	540-59-0	8.7	43.4	ND	ND
1,2-Dichloropropane	78-87-5	7.2	36.0	ND	ND
cis-1,3-Dichloropropene	10061-01-5	12.8	63.8	ND	ND
trans-1,3-Dichloropropene	10061-02-6	3.2	15.9	ND	ND
Ethylbenzene	100-41-4	6.5	32.6	300	ND
2-Hexanone	591-78-6	121.2	605.9	260E	ND
Methylene chloride	75-09-2	54.5	272.7	280	3.6
4-Methyl-2-pentanone (MIBK)	108-10-1	121.2	605.9	ND	ND
Styrene	100-42-5	8.7	43.4	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	10.5	52.6	ND	ND
Tetrachloroethene	127-18-4	7.4	37.2	ND	ND
Toluene	108-88-3	11.9	59.4	98	ND
1,1,1-Trichloroethane	71-55-6	41.5	207.3	ND	ND
1,1,2-Trichloroethane	79-00-5	7.4	37.2	ND	ND
Trichloroethene	79-01-6	12.5	62.4	ND	ND
Vinyl acetate	108-05-4	8.2	41.2	ND	ND
Vinyl chloride	75-01-4	121.2	605.9	ND	ND
Xylenes (total)	1330-20-7	13.2	66.0	1600	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		105	110
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		99	106
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		103	107

E: Estimated, ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20926-2

DOUGLASSVILLE
SAMPLE # A-2

SAMPLED (Date/Time/Init): 9/16/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/25/92, 15:13, TAG
Dilution Factor: 63.65 Sample Matrix: SOLID
% Moisture: 21.45 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	763.8	3819.0	ND	ND
Benzene	71-43-2	8.0	39.8	ND	ND
Bromodichloromethane	75-27-4	8.6	43.0	ND	ND
Bromoform	75-25-2	7.1	35.6	ND	ND
Bromomethane	74-83-9	14.0	70.0	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1145.7	5728.5	2800E	ND
Carbon disulfide	75-15-0	8.8	43.8	ND	ND
Carbon tetrachloride	56-23-5	12.7	63.4	ND	ND
Chlorobenzene	108-90-7	12.1	60.4	ND	ND
Chloroethane	75-00-3	127.3	636.5	ND	ND
Chloroform	67-66-3	13.1	65.6	ND	ND
Chloromethane	74-87-3	127.3	636.5	ND	ND
Dibromochloromethane	124-48-1	4.6	23.0	ND	ND
1,1-Dichloroethane	75-34-3	9.5	47.3	ND	ND
1,2-Dichloroethane	107-06-2	6.1	30.4	ND	ND
1,1-Dichloroethene	75-35-4	11.1	55.4	ND	ND
1,2-Dichloroethene (total)	540-59-0	9.1	45.6	ND	ND
1,2-Dichloropropane	78-87-5	7.6	37.8	ND	ND
cis-1,3-Dichloropropene	10061-01-5	13.4	67.0	ND	ND
trans-1,3-Dichloropropene	10061-02-6	3.3	16.7	ND	ND
Ethylbenzene	100-41-4	6.9	34.3	290	ND
2-Hexanone	591-78-6	127.3	636.5	190E	ND
Methylene chloride	75-09-2	57.3	286.4	280E	3.6
4-Methyl-2-pentanone (MIBK)	108-10-1	127.3	636.5	ND	ND
Styrene	100-42-5	9.1	45.6	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	11.1	55.3	ND	ND
Tetrachloroethene	127-18-4	7.8	39.0	ND	ND
Toluene	108-88-3	12.5	62.4	150	ND
1,1,1-Trichloroethane	71-55-6	43.6	217.8	ND	ND
1,1,2-Trichloroethane	79-00-5	7.8	39.1	ND	ND
Trichloroethene	79-01-6	13.1	65.5	110	ND
Vinyl acetate	108-05-4	8.7	43.3	ND	ND
Vinyl chloride	75-01-4	127.3	636.5	ND	ND
Xylenes (total)	1330-20-7	13.9	69.3	1400	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		100	110
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		98	106
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		99	107

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20926-3

DOUGLASSVILLE
SAMPLE # A-3

SAMPLED (Date/Time/Init): 9/16/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/25/92, 16:36, TAG
Dilution Factor: 63.26 Sample Matrix: SOLID
% Moisture: 20.97 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	759.1	3795.6	ND	ND
Benzene	71-43-2	7.9	39.6	ND	ND
Bromodichloromethane	75-27-4	8.5	42.7	ND	ND
Bromoform	75-25-2	7.1	35.4	ND	ND
Bromomethane	74-83-9	13.9	69.5	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1138.7	5693.4	2800E	ND
Carbon disulfide	75-15-0	8.7	43.5	ND	ND
Carbon tetrachloride	56-23-5	12.6	63.0	ND	ND
Chlorobenzene	108-90-7	12.0	60.0	ND	ND
Chloroethane	75-00-3	126.5	632.6	ND	ND
Chloroform	67-66-3	13.0	65.2	ND	ND
Chloromethane	74-87-3	126.5	632.6	ND	ND
Dibromochloromethane	124-48-1	4.6	22.8	ND	ND
1,1-Dichloroethane	75-34-3	9.4	47.0	ND	ND
1,2-Dichloroethane	107-06-2	6.0	30.2	ND	ND
1,1-Dichloroethene	75-35-4	11.0	55.1	ND	ND
1,2-Dichloroethene (total)	540-59-0	9.1	45.3	ND	ND
1,2-Dichloropropane	78-87-5	7.5	37.5	ND	ND
cis-1,3-Dichloropropene	10061-01-5	13.3	66.6	ND	ND
trans-1,3-Dichloropropene	10061-02-6	3.3	16.6	ND	ND
Ethylbenzene	100-41-4	6.8	34.1	270	ND
2-Hexanone	591-78-6	126.5	632.6	ND	ND
Methylene chloride	75-09-2	56.9	284.7	280E	3.6
4-Methyl-2-pentanone (MIBK)	108-10-1	126.5	632.6	ND	ND
Styrene	100-42-5	9.1	45.3	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	11.0	54.9	ND	ND
Tetrachloroethene	127-18-4	7.8	38.8	ND	ND
Toluene	108-88-3	12.4	62.0	110	ND
1,1,1-Trichloroethane	71-55-6	43.3	216.5	ND	ND
1,1,2-Trichloroethane	79-00-5	7.8	38.9	ND	ND
Trichloroethene	79-01-6	13.0	65.1	58E	ND
Vinyl acetate	108-05-4	8.6	43.0	ND	ND
Vinyl chloride	75-01-4	126.5	632.6	ND	ND
Xylenes (total)	1330-20-7	13.8	68.9	1500	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		101	110
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		96	106
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		101	107

E: Estimated, ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20926-4

DOUGLASSVILLE
SAMPLE # AC-1

SAMPLED (Date/Time/Init): 9/16/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/25/92, 17:03, TAG
Dilution Factor: 62.88 Sample Matrix: SOLID
% Moisture: 20.49 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	754.6	3772.8	1400E	ND
Benzene	71-43-2	7.9	39.4	ND	ND
Bromodichloromethane	75-27-4	8.5	42.4	ND	ND
Bromoform	75-25-2	7.0	35.2	ND	ND
Bromomethane	74-83-9	13.8	69.1	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1131.8	5659.2	3000E	ND
Carbon disulfide	75-15-0	8.7	43.3	ND	ND
Carbon tetrachloride	56-23-5	12.5	62.6	ND	ND
Chlorobenzene	108-90-7	11.9	59.6	ND	ND
Chloroethane	75-00-3	125.8	628.8	ND	ND
Chloroform	67-66-3	13.0	64.8	ND	ND
Chloromethane	74-87-3	125.8	628.8	ND	ND
Dibromochloromethane	124-48-1	4.5	22.7	ND	ND
1,1-Dichloroethane	75-34-3	9.4	46.7	ND	ND
1,2-Dichloroethane	107-06-2	6.0	30.0	ND	ND
1,1-Dichloroethene	75-35-4	11.0	54.8	ND	ND
1,2-Dichloroethene (total)	540-59-0	9.0	45.0	ND	ND
1,2-Dichloropropane	78-87-5	7.5	37.3	ND	ND
cis-1,3-Dichloropropene	10061-01-5	13.2	66.2	ND	ND
trans-1,3-Dichloropropene	10061-02-6	3.3	16.5	ND	ND
Ethylbenzene	100-41-4	6.8	33.9	490	ND
2-Hexanone	591-78-6	125.8	628.8	520E	ND
Methylene chloride	75-09-2	56.6	283.0	270E	3.6
4-Methyl-2-pentanone (MIBK)	108-10-1	125.8	628.8	ND	ND
Styrene	100-42-5	9.0	45.0	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	10.9	54.6	ND	ND
Tetrachloroethene	127-18-4	7.7	38.6	100	ND
Toluene	108-88-3	12.3	61.6	220	ND
1,1,1-Trichloroethane	71-55-6	43.0	215.2	ND	ND
1,1,2-Trichloroethane	79-00-5	7.7	38.6	ND	ND
Trichloroethene	79-01-6	12.9	64.7	75	ND
Vinyl acetate	108-05-4	8.5	42.7	ND	ND
Vinyl chloride	75-01-4	125.8	628.8	ND	ND
Xylenes (total)	1330-20-7	13.7	68.5	2500	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		99	110
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		96	106
romofluorobenzene (surrogate)	% Recovery	[OK=59-113]		100	107

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301488

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20926-5

DOUGLASSVILLE
SAMPLE # AC-2

SAMPLED (Date/Time/Init): 9/16/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/25/92, 17:30, TAG
Dilution Factor: 64.05 Sample Matrix: SOLID
% Moisture: 21.93 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	768.6	3843.0	1300E	ND
Benzene	71-43-2	8.0	40.1	ND	ND
Bromodichloromethane	75-27-4	8.6	43.2	ND	ND
Bromoform	75-25-2	7.2	35.9	ND	ND
Bromomethane	74-83-9	14.1	70.4	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1152.9	5764.5	3100E	ND
Carbon disulfide	75-15-0	8.8	44.1	ND	ND
Carbon tetrachloride	56-23-5	12.8	63.8	ND	ND
Chlorobenzene	108-90-7	12.2	60.8	ND	ND
Chloroethane	75-00-3	128.1	640.5	ND	ND
Chloroform	67-66-3	13.2	66.0	ND	ND
Chloromethane	74-87-3	128.1	640.5	ND	ND
Dibromochloromethane	124-48-1	4.6	23.1	ND	ND
1,1-Dichloroethane	75-34-3	9.5	47.6	ND	ND
1,2-Dichloroethane	107-06-2	6.1	30.6	ND	ND
1,1-Dichloroethene	75-35-4	11.2	55.8	ND	ND
1,2-Dichloroethene (total)	540-59-0	9.2	45.9	ND	ND
1,2-Dichloropropane	78-87-5	7.6	38.0	ND	ND
cis-1,3-Dichloropropene	10061-01-5	13.5	67.4	ND	ND
trans-1,3-Dichloropropene	10061-02-6	3.4	16.8	ND	ND
Ethylbenzene	100-41-4	6.9	34.5	590	ND
2-Hexanone	591-78-6	128.1	640.5	ND	ND
Methylene chloride	75-09-2	57.6	288.2	240E	3.6
4-Methyl-2-pentanone (MIBK)	108-10-1	128.1	640.5	ND	ND
Styrene	100-42-5	9.2	45.8	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	11.1	55.6	ND	ND
Tetrachloroethene	127-18-4	7.9	39.3	360	ND
Toluene	108-88-3	12.6	62.8	270	ND
1,1,1-Trichloroethane	71-55-6	43.8	219.2	ND	ND
1,1,2-Trichloroethane	79-00-5	7.9	39.3	ND	ND
Trichloroethene	79-01-6	13.2	65.9	88	ND
Vinyl acetate	108-05-4	8.7	43.5	ND	ND
Vinyl chloride	75-01-4	128.1	640.5	ND	ND
Xylenes (total)	1330-20-7	13.9	69.7	3200	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		97	110
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		94	106
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		100	107

E: Estimated, ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301489

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20926-6

DOUGLASSVILLE
SAMPLE # AC-3

SAMPLED (Date/Time/Init): 9/16/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/25/92, 17:57, TAG
Dilution Factor: 62.14 Sample Matrix: SOLID
% Moisture: 19.54 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	745.7	3728.4	1700E	ND
Benzene	71-43-2	7.8	38.9	ND	ND
Bromodichloromethane	75-27-4	8.4	41.9	ND	ND
Bromoform	75-25-2	7.0	34.8	ND	ND
Bromomethane	74-83-9	13.7	68.3	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1118.5	5592.6	2700E	ND
Carbon disulfide	75-15-0	8.6	42.8	ND	ND
Carbon tetrachloride	56-23-5	12.4	61.9	ND	ND
Chlorobenzene	108-90-7	11.8	58.9	ND	ND
Chloroethane	75-00-3	124.3	621.4	ND	ND
Chloroform	67-66-3	12.8	64.0	ND	ND
Chloromethane	74-87-3	124.3	621.4	ND	ND
Dibromochloromethane	124-48-1	4.5	22.4	ND	ND
1,1-Dichloroethane	75-34-3	9.2	46.2	ND	ND
1,2-Dichloroethane	107-06-2	5.9	29.7	ND	ND
1,1-Dichloroethene	75-35-4	10.8	54.1	ND	ND
1,2-Dichloroethene (total)	540-59-0	8.9	44.5	ND	ND
1,2-Dichloropropane	78-87-5	7.4	36.9	ND	ND
cis-1,3-Dichloropropene	10061-01-5	13.1	65.4	ND	ND
trans-1,3-Dichloropropene	10061-02-6	3.3	16.3	ND	ND
Ethylbenzene	100-41-4	6.7	33.5	770	ND
2-Hexanone	591-78-6	124.3	621.4	ND	ND
Methylene chloride	75-09-2	55.9	279.6	290	3.6
4-Methyl-2-pentanone (MIBK)	108-10-1	124.3	621.4	ND	ND
Styrene	100-42-5	8.9	44.5	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	10.8	54.0	ND	ND
Tetrachloroethene	127-18-4	7.6	38.1	170	ND
Toluene	108-88-3	12.2	60.9	420	ND
1,1,1-Trichloroethane	71-55-6	42.5	212.6	ND	ND
1,1,2-Trichloroethane	79-00-5	7.6	38.2	ND	ND
Trichloroethene	79-01-6	12.8	64.0	150	ND
Vinyl acetate	108-05-4	8.4	42.2	ND	ND
Vinyl chloride	75-01-4	124.3	621.4	ND	ND
Xylenes (total)	1330-20-7	13.5	67.6	4400	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		94	110
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		98	106
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		101	107

E: Estimated, ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301490

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20926-7

DOUGLASSVILLE
SAMPLE # B-1

SAMPLED (Date/Time/Init): 9/16/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/25/92, 18:23, TAG
Dilution Factor: 63.55 Sample Matrix: SOLID
% Moisture: 21.32 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	762.6	3813.0	1400E	ND
Benzene	71-43-2	8.0	39.8	ND	ND
Bromodichloromethane	75-27-4	8.6	42.9	ND	ND
Bromoform	75-25-2	7.1	35.6	ND	ND
Bromomethane	74-83-9	14.0	69.8	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1143.9	5719.5	2600E	ND
Carbon disulfide	75-15-0	8.8	43.7	ND	ND
Carbon tetrachloride	56-23-5	12.7	63.3	ND	ND
Chlorobenzene	108-90-7	12.1	60.3	ND	ND
Chloroethane	75-00-3	127.1	635.5	ND	ND
Chloroform	67-66-3	13.1	65.5	ND	ND
Chloromethane	74-87-3	127.1	635.5	ND	ND
Dibromochloromethane	124-48-1	4.6	22.9	ND	ND
1,1-Dichloroethane	75-34-3	9.4	47.2	ND	ND
1,2-Dichloroethane	107-06-2	6.1	30.3	ND	ND
1,1-Dichloroethene	75-35-4	11.1	55.3	ND	ND
1,2-Dichloroethene (total)	540-59-0	9.1	45.5	ND	ND
1,2-Dichloropropane	78-87-5	7.5	37.7	ND	ND
cis-1,3-Dichloropropene	10061-01-5	13.4	66.9	ND	ND
trans-1,3-Dichloropropene	10061-02-6	3.3	16.7	ND	ND
Ethylbenzene	100-41-4	6.8	34.2	380	ND
2-Hexanone	591-78-6	127.1	635.5	170E	ND
Methylene chloride	75-09-2	57.2	286.0	310	3.6
4-Methyl-2-pentanone (MIBK)	108-10-1	127.1	635.5	ND	ND
Styrene	100-42-5	9.1	45.5	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	11.0	55.2	ND	ND
Tetrachloroethene	127-18-4	7.8	39.0	81	ND
Toluene	108-88-3	12.5	62.3	160	ND
1,1,1-Trichloroethane	71-55-6	43.5	217.5	ND	ND
1,1,2-Trichloroethane	79-00-5	7.8	39.0	ND	ND
Trichloroethene	79-01-6	13.1	65.4	69	ND
Vinyl acetate	108-05-4	8.6	43.2	ND	ND
Vinyl chloride	75-01-4	127.1	635.5	ND	ND
Xylenes (total)	1330-20-7	13.8	69.2	2200	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		96	110
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		96	106
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		98	107

E: Estimated, ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hager

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20926-8

DOUGLASSVILLE
SAMPLE # B-2

SAMPLED (Date/Time/Init): 9/16/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/25/92, 18:50, KC
Dilution Factor: 62.80 Sample Matrix: SOLID
% Moisture: 20.53 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	753.6	3768.0	ND	ND
Benzene	71-43-2	7.9	39.3	ND	ND
Bromodichloromethane	75-27-4	8.5	42.4	ND	ND
Bromoform	75-25-2	7.0	35.2	ND	ND
Bromomethane	74-83-9	13.8	69.0	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1130.4	5652.0	1600E	ND
Carbon disulfide	75-15-0	8.6	43.2	ND	ND
Carbon tetrachloride	56-23-5	12.5	62.5	ND	ND
Chlorobenzene	108-90-7	11.9	59.6	ND	ND
Chloroethane	75-00-3	125.6	628.0	ND	ND
Chloroform	67-66-3	12.9	64.7	ND	ND
Chloromethane	74-87-3	125.6	628.0	ND	ND
Dibromochloromethane	124-48-1	4.5	22.7	ND	ND
1,1-Dichloroethane	75-34-3	9.3	46.7	ND	ND
1,2-Dichloroethane	107-06-2	6.0	30.0	ND	ND
1,1-Dichloroethene	75-35-4	10.9	54.7	ND	ND
1,2-Dichloroethene (total)	540-59-0	9.0	45.0	ND	ND
1,2-Dichloropropane	78-87-5	7.5	37.3	ND	ND
cis-1,3-Dichloropropene	10061-01-5	13.2	66.1	ND	ND
trans-1,3-Dichloropropene	10061-02-6	3.3	16.5	ND	ND
Ethylbenzene	100-41-4	6.8	33.8	470	ND
2-Hexanone	591-78-6	125.6	628.0	390E	ND
Methylene chloride	75-09-2	56.5	282.6	330	3.6
4-Methyl-2-pentanone (MIBK)	108-10-1	125.6	628.0	ND	ND
Styrene	100-42-5	9.0	44.9	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	10.9	54.5	ND	ND
Tetrachloroethene	127-18-4	7.7	38.5	95	ND
Toluene	108-88-3	12.3	61.6	190	ND
1,1,1-Trichloroethane	71-55-6	43.0	214.9	ND	ND
1,1,2-Trichloroethane	79-00-5	7.7	38.6	ND	ND
Trichloroethene	79-01-6	12.9	64.7	84	ND
Vinyl acetate	108-05-4	8.5	42.7	ND	ND
Vinyl chloride	75-01-4	125.6	628.0	ND	ND
Xylenes (total)	1330-20-7	13.7	68.4	2900	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		91	110
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		95	106
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		97	107

E: Estimated, ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301492

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20926-9

DOUGLASSVILLE
SAMPLE # B-3

SAMPLED (Date/Time/Init): 9/16/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/25/92, 19:17, KC
Dilution Factor: 66.93 Sample Matrix: SOLID
% Moisture: 25.3 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	803.2	4015.8	1400E	ND
Benzene	71-43-2	8.4	41.9	ND	ND
Bromodichloromethane	75-27-4	9.0	45.2	ND	ND
Bromoform	75-25-2	7.5	37.5	ND	ND
Bromomethane	74-83-9	14.7	73.6	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1204.7	6023.7	2500E	ND
Carbon disulfide	75-15-0	9.2	46.1	ND	ND
Carbon tetrachloride	56-23-5	13.3	66.6	ND	ND
Chlorobenzene	108-90-7	12.7	63.5	ND	ND
Chloroethane	75-00-3	133.9	669.3	ND	ND
Chloroform	67-66-3	13.8	68.9	ND	ND
Chloromethane	74-87-3	133.9	669.3	ND	ND
Dibromochloromethane	124-48-1	4.8	24.2	ND	ND
1,1-Dichloroethane	75-34-3	10.0	49.7	ND	ND
1,2-Dichloroethane	107-06-2	6.4	31.9	ND	ND
1,1-Dichloroethene	75-35-4	11.7	58.3	ND	ND
1,2-Dichloroethene (total)	540-59-0	9.6	47.9	ND	ND
1,2-Dichloropropane	78-87-5	7.9	39.7	ND	ND
cis-1,3-Dichloropropene	10061-01-5	14.1	70.5	ND	ND
trans-1,3-Dichloropropene	10061-02-6	3.5	17.6	ND	ND
Ethylbenzene	100-41-4	7.2	36.0	650	ND
2-Hexanone	591-78-6	133.9	669.3	300E	ND
Methylene chloride	75-09-2	60.2	301.2	210E	3.6E
4-Methyl-2-pentanone (MIBK)	108-10-1	133.9	669.3	ND	ND
Styrene	100-42-5	9.6	47.9	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	11.6	58.1	ND	ND
Tetrachloroethene	127-18-4	8.2	41.1	150	ND
Toluene	108-88-3	13.1	65.6	360	ND
1,1,1-Trichloroethane	71-55-6	45.8	229.0	ND	ND
1,1,2-Trichloroethane	79-00-5	8.2	41.1	ND	ND
Trichloroethene	79-01-6	13.8	68.9	160	ND
Vinyl acetate	108-05-4	9.1	45.5	ND	ND
Vinyl chloride	75-01-4	133.9	669.3	ND	ND
Xylenes (total)	1330-20-7	14.6	72.9	3000	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		90	110
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		96	106
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		98	107

E: Estimated, ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20926-10

DOUGLASSVILLE
SAMPLE # BC-1

SAMPLED (Date/Time/Init): 9/16/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/25/92, 19:44, TAG
Dilution Factor: 63.04 Sample Matrix: SOLID
% Moisture: 20.68 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	756.5	3782.4	ND	ND
Benzene	71-43-2	7.9	39.5	ND	ND
Bromodichloromethane	75-27-4	8.5	42.5	ND	ND
Bromoform	75-25-2	7.1	35.3	ND	ND
Bromomethane	74-83-9	13.9	69.3	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1134.7	5673.6	2300E	ND
Carbon disulfide	75-15-0	8.7	43.4	ND	ND
Carbon tetrachloride	56-23-5	12.6	62.8	ND	ND
Chlorobenzene	108-90-7	12.0	59.8	ND	ND
Chloroethane	75-00-3	126.1	630.4	ND	ND
Chloroform	67-66-3	13.0	64.9	ND	ND
Chloromethane	74-87-3	126.1	630.4	ND	ND
Dibromochloromethane	124-48-1	4.6	22.8	ND	ND
1,1-Dichloroethane	75-34-3	9.4	46.9	ND	ND
1,2-Dichloroethane	107-06-2	6.0	30.1	ND	ND
1,1-Dichloroethene	75-35-4	11.0	54.9	ND	ND
1,2-Dichloroethene (total)	540-59-0	9.0	45.1	ND	ND
1,2-Dichloropropane	78-87-5	7.5	37.4	ND	ND
cis-1,3-Dichloropropene	10061-01-5	13.3	66.4	ND	ND
trans-1,3-Dichloropropene	10061-02-6	3.3	16.6	ND	ND
Ethylbenzene	100-41-4	6.8	33.9	690	ND
2-Hexanone	591-78-6	126.1	630.4	ND	ND
Methylene chloride	75-09-2	56.7	283.7	170E	3.6E
4-Methyl-2-pentanone (MIBK)	108-10-1	126.1	630.4	ND	ND
Styrene	100-42-5	9.0	45.1	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	11.0	54.8	ND	ND
Tetrachloroethene	127-18-4	7.7	38.7	150	ND
Toluene	108-88-3	12.4	61.8	400	ND
1,1,1-Trichloroethane	71-55-6	43.1	215.7	ND	ND
1,1,2-Trichloroethane	79-00-5	7.7	38.7	ND	ND
Trichloroethene	79-01-6	13.0	64.9	150	ND
Vinyl acetate	108-05-4	8.6	42.8	ND	ND
Vinyl chloride	75-01-4	126.1	630.4	ND	ND
Xylenes (total)	1330-20-7	13.7	68.6	3800	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		88	110
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		96	106
romofluorobenzene (surrogate)	% Recovery	[OK=59-113]		100	107

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301494

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20926-11

DOUGLASSVILLE
SAMPLE # BC-2

SAMPLED (Date/Time/Init): 9/16/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/25/92, 20:11, KC
Dilution Factor: 64.77 Sample Matrix: SOLID
% Moisture: 22.8 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	777.2	3886.2	1200E	ND
Benzene	71-43-2	8.1	40.5	ND	ND
Bromodichloromethane	75-27-4	8.7	43.7	ND	ND
Bromoform	75-25-2	7.3	36.3	ND	ND
Bromomethane	74-83-9	14.2	71.2	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1165.9	5829.3	2600E	ND
Carbon disulfide	75-15-0	8.9	44.6	ND	ND
Carbon tetrachloride	56-23-5	12.9	64.5	ND	ND
Chlorobenzene	108-90-7	12.3	61.4	ND	ND
Chloroethane	75-00-3	129.5	647.7	ND	ND
Chloroform	67-66-3	13.3	66.7	35E	ND
Chloromethane	74-87-3	129.5	647.7	ND	ND
Dibromochloromethane	124-48-1	4.7	23.4	ND	ND
1,1-Dichloroethane	75-34-3	9.6	48.1	ND	ND
1,2-Dichloroethane	107-06-2	6.2	30.9	ND	ND
1,1-Dichloroethene	75-35-4	11.3	56.4	ND	ND
1,2-Dichloroethene (total)	540-59-0	9.3	46.4	ND	ND
1,2-Dichloropropane	78-87-5	7.7	38.4	ND	ND
cis-1,3-Dichloropropene	10061-01-5	13.6	68.2	ND	ND
trans-1,3-Dichloropropene	10061-02-6	3.4	17.0	ND	ND
Ethylbenzene	100-41-4	7.0	34.9	910	ND
2-Hexanone	591-78-6	129.5	647.7	ND	ND
Methylene chloride	75-09-2	58.3	291.5	180E	3.6E
4-Methyl-2-pentanone (MIBK)	108-10-1	129.5	647.7	ND	ND
Styrene	100-42-5	9.3	46.4	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	11.3	56.3	ND	ND
Tetrachloroethene	127-18-4	7.9	39.7	210	ND
Toluene	108-88-3	12.7	63.5	510	ND
1,1,1-Trichloroethane	71-55-6	44.3	221.6	ND	ND
1,1,2-Trichloroethane	79-00-5	8.0	39.8	ND	ND
Trichloroethene	79-01-6	13.3	66.7	210	ND
Vinyl acetate	108-05-4	8.8	44.0	ND	ND
Vinyl chloride	75-01-4	129.5	647.7	ND	ND
Xylenes (total)	1330-20-7	14.1	70.5	4600	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		90	110
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		93	106
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		97	107

E: Estimated, ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael Hayes

AR301495

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20926-12

DOUGLASSVILLE
SAMPLE # BC-3

SAMPLED (Date/Time/Init): 9/16/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/29/92, 18:12, KC
Dilution Factor: 63.18 Sample Matrix: SOLID
% Moisture: 20.86 Analysis Method: 8260

TARGET COMPOUND LIST	CAS Number	MDL	PQL	Dry-weight Basis Concentration ug/Kg	Apparent Blank Conc. ug/Kg
Acetone	67-64-1	758.2	3790.8	1900E	ND
Benzene	71-43-2	7.9	39.5	ND	ND
Bromodichloromethane	75-27-4	8.5	42.6	ND	ND
Bromoform	75-25-2	7.1	35.4	ND	ND
Bromomethane	74-83-9	13.9	69.4	ND	ND
2-Butanone (Methyl ethyl ketone)	78-93-3	1137.2	5686.2	3600E	ND
Carbon disulfide	75-15-0	8.7	43.5	ND	ND
Carbon tetrachloride	56-23-5	12.6	62.9	ND	ND
Chlorobenzene	108-90-7	12.0	59.9	ND	ND
Chloroethane	75-00-3	126.4	631.8	ND	ND
Chloroform	67-66-3	13.0	65.1	ND	ND
Chloromethane	74-87-3	126.4	631.8	ND	ND
Dibromochloromethane	124-48-1	4.6	22.8	ND	ND
1,1-Dichloroethane	75-34-3	9.4	47.0	ND	ND
1,2-Dichloroethane	107-06-2	6.0	30.2	ND	ND
1,1-Dichloroethene	75-35-4	11.0	55.0	ND	ND
1,2-Dichloroethene (total)	540-59-0	9.0	45.2	ND	ND
1,2-Dichloropropane	78-87-5	7.5	37.5	ND	ND
cis-1,3-Dichloropropene	10061-01-5	13.3	66.5	ND	ND
trans-1,3-Dichloropropene	10061-02-6	3.3	16.6	ND	ND
Ethylbenzene	100-41-4	6.8	34.0	1300	ND
2-Hexanone	591-78-6	126.4	631.8	860	ND
Methylene chloride	75-09-2	56.9	284.3	2900	61
4-Methyl-2-pentanone (MIBK)	108-10-1	126.4	631.8	ND	ND
Styrene	100-42-5	9.0	45.2	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	11.0	54.9	ND	ND
Tetrachloroethene	127-18-4	7.8	38.8	290	ND
Toluene	108-88-3	12.4	61.9	880	ND
1,1,1-Trichloroethane	71-55-6	43.2	216.2	ND	ND
1,1,2-Trichloroethane	79-00-5	7.8	38.8	ND	ND
Trichloroethene	79-01-6	13.0	65.0	340	ND
Vinyl acetate	108-05-4	8.6	42.9	ND	ND
Vinyl chloride	75-01-4	126.4	631.8	ND	ND
Xylenes (total)	1330-20-7	13.8	68.8	7100	ND
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]		102	101
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]		100	102
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]		104	104

E: Estimated , ND: Not Detected
MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Michael C. Hayes

AR301496

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20926-2MS

DOUGLASSVILLE
SAMPLE # A-2

SAMPLED (Date/Time/Init): 9/16/92, 14:00 PF
ANALYSIS (Date/Time/Init): 9/25/92, 15:40, TAG
Sample Matrix: SOLID
Analysis Method: 8260

MATRIX SPIKE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery
Benzene	71-43-2	66- 142	107
Chlorobenzene	108-90-7	60- 133	101
1,1-Dichloroethene	75-35-4	59- 172	79
Toluene	108-88-3	59- 139	107
Trichloroethene	79-01-6	62- 137	99
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]	102
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]	97
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]	104

ANALYSIS (Date/Time/Init): 9/25/92, 16:08, TAG

MATRIX SPIKE DUPLICATE	CAS Number	QC LIMITS % Recovery	Actual MSD % Recovery	% RPD
Benzene	71-43-2	66- 142	103	4
Chlorobenzene	108-90-7	60- 133	96	5
1,1-Dichloroethene	75-35-4	59- 172	77	3
Toluene	108-88-3	59- 139	100	7
Trichloroethene	79-01-6	62- 137	92	7
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]	102	
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]	91	
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]	102	

Michael Hayes

KIBER Environmental Services | GC/MS VOA RESULTS | LAB SAMPLE # 20926-11MS

DOUGLASSVILLE
SAMPLE # BC-2

SAMPLED (Date/Time/Init): 9/16/92, 14:00, PF
ANALYSIS (Date/Time/Init): 9/29/92, 17:17, TAG
Sample Matrix: SOLID
Analysis Method: 8260

MATRIX SPIKE	CAS Number	QC LIMITS % Recovery	Actual MS % Recovery
Benzene	71-43-2	66- 142	112
Chlorobenzene	108-90-7	60- 133	108
1,1-Dichloroethene	75-35-4	59- 172	65
Toluene	108-88-3	59- 139	115
Trichloroethene	79-01-6	62- 137	104
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]	102
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]	100
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]	107

ANALYSIS (Date/Time/Init): 9/29/92, 17:45, TAG

MATRIX SPIKE DUPLICATE	CAS Number	QC LIMITS % Recovery	Actual MSD % Recovery	% RPD
Benzene	71-43-2	66- 142	112	0
Chlorobenzene	108-90-7	60- 133	108	0
1,1-Dichloroethene	75-35-4	59- 172	72	10
Toluene	108-88-3	59- 139	116	1
Trichloroethene	79-01-6	62- 137	106	2
1,2-Dichloroethane-d4 (surrogate)	% Recovery	[OK=70-121]	99	
Toluene-d8 (surrogate)	% Recovery	[OK=84-138]	101	
Bromofluorobenzene (surrogate)	% Recovery	[OK=59-113]	106	

Michael Hayes

KIBER
ENVIRONMENTAL SERVICES, INC.

19 November 1992

Mr. Richard A. Marton
Barr Engineering Company
8300 Norman Center Drive
Minneapolis, MN 55437

Subject: Final Analytical Results for Week Three Samples
Douglassville Biological Study

Dear Rick:

Kiber Environmental Services, Inc. (Kiber) is pleased to present the final analytical results for the week three samples of the Douglassville biological study. The samples were submitted to Kiber by Bioremediation Services, Inc. (BSI) on 24 September 1992 via Federal Express. The analyses conducted were in accordance with Table 2 of the Quality Assurance Project Plan developed by Barr dated July 1992. Included with this letter are results for the following analyses:

- TPH Volatiles and Semivolatiles
- TCLP PCBs

Please note that any quality assurance information for each of the analyses specified in the Quality Assurance Project Plan, is included with each set of analyses. If you should have any questions, please contact me.

Sincerely,
Kiber Environmental Services, Inc.

Stephen J. Zarlinski
Project Manager

Enclosure

512/SZ224

4000 Dekalb Technology Parkway, N.E. ▲ Suite 200 ▲ Atlanta, Georgia 30340-2763
(404) 455-3944 FAX (404) 451-0155

Chain of Custody

...ver, Address: ... S.W. ... Boones Ferry ...
...and, Oregon 97224
) 624-9464 (Office)
) 658-5268 (Fax)
) 775-9464 (Office)

EPA I.D. Number ORD 987173440

Bioremediation Service, Inc.
Natural Solutions for the Environment

Proj. No.: 38/06-001 RAM-06
Project Name: DOUGLASSVILLE TREATABILITY STUDY
Samplers: (Signature) [signature]

Site No	Date	Time	Grab	Comp	Station Location	No. of Containers	TPH-EPA 8015 GC-FID	~~PCB~~	PCB TCPL EPA 8080 GC ECD					Remarks
A-1	9/23/92	2:00		✓	TRAY A-1	1	✓		✓					8 OZ JARS
A-2	↓	↓		✓	TRAY A-2	1	✓		✓					↓
A-3	↓	↓		✓	TRAY A-3	1	✓		✓					↓
B-1	↓	↓		✓	TRAY B-1	1	✓		✓					↓
B-2	↓	↓		✓	TRAY B-2	1	✓		✓					↓
B-3	↓	↓		✓	TRAY B-3	1	✓		✓					↓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	9/23/92	2:15		Fed Ex	9/24/92	1030	[signature]
Witnessed by: (Signature)	Date	Time		Witnessed by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Remarks: WEEK THREE ACCORDING TO WORK PLAN			
Witnessed by: (Signature)	Date	Time					

AR301501

TPH Analyses

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20938-1

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE BIO
SAMPLE # A-1
DATE REPORTED: 10/14/92

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
ANALYSIS (Date/Time/Init): 10/2/92, 15:55, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: OTHER SEMIVOLATILE HYDROCARBONS DETECTED.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20938-2

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE BIO
SAMPLE # A-2
DATE REPORTED: 10/14/92

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
ANALYSIS (Date/Time/Init): 10/2/92, 16:22, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: OTHER SEMIVOLATILE HYDROCARBONS DETECTED.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20938-3

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE BIO
SAMPLE # A-3
DATE REPORTED: 10/14/92

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
ANALYSIS (Date/Time/Init): 10/2/92, 16:49, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: OTHER SEMIVOLATILE HYDROCARBONS DETECTED.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20938-4

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE BIO
SAMPLE # B-1
DATE REPORTED: 10/14/92

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
ANALYSIS (Date/Time/Init): 10/2/92, 17:16, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: OTHER SEMIVOLATILE HYDROCARBONS DETECTED.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20938-5

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE BIO
SAMPLE # B-2
DATE REPORTED: 10/14/92

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
ANALYSIS (Date/Time/Init): 10/2/92, 17:43, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: OTHER SEMIVOLATILE HYDROCARBONS DETECTED.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20938-6

TOTAL PETROLEUM HYDROCARBONS by GC/MS

DOUGLASSVILLE BIO
SAMPLE # B-3
DATE REPORTED: 10/14/92

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
ANALYSIS (Date/Time/Init): 10/2/92, 18:09, TAG

MATRIX : SOLID
METHOD : CAL-DHS Volatiles (8015M)

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Gasoline	0.5	ND	ND
Naphtha	0.5	ND	ND
Spirits	0.5	ND	ND
Other Volatile HC	0.5	ND	ND

ND: Not Detected
MDL: Method Detection Limit

HYDROCARBON PATTERN DESCRIPTION: OTHER SEMIVOLATILE HYDROCARBONS DETECTED.

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20938-1

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
EXTRACTED (Date / Init) : 10/8/92, RGB
ANALYSIS (Date/Time/Init): 10/13/92, 22:19, RGB

DATE REPORTED: 10/15/92

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	160,000	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20938-2

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
EXTRACTED (Date / Init) : 10/8/92, RGB
ANALYSIS (Date/Time/Init): 10/13/92, 23:23, RGB

DATE REPORTED: 10/15/92

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	150,000	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hoy

AR301510

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20938-3

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
EXTRACTED (Date / Init) : 10/8/92, RGB
ANALYSIS (Date/Time/Init): 10/14/92, 00:26, RGB

DATE REPORTED: 10/15/92

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	140,000	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20938-4

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
EXTRACTED (Date / Init) : 10/8/92, RGB
ANALYSIS (Date/Time/Init): 10/14/92, 01:29, RGB

DATE REPORTED: 10/15/92

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	180,000	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20938-5

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
EXTRACTED (Date / Init) : 10/8/92, RGB
ANALYSIS (Date/Time/Init): 10/14/92: 02:31, RGB

DATE REPORTED: 10/15/92

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	190,000	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES SAMPLE # : 20938-6

TOTAL PETROLEUM HYDROCARBONS by GC

DOUGLASSVILLE BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
EXTRACTED (Date / Init) : 10/8/92, RGB
ANALYSIS (Date/Time/Init): 10/14/92, 08:46, RGB

DATE REPORTED: 10/15/92

MATRIX : SOLID
METHOD : CAL-DHS Semivolatiles

COMPONENT	MDL	mg/Kg Concentration	mg/Kg Blank Conc.
Diesel	0.5	ND	ND
Kerosene	0.5	ND	ND
Oil	0.5	180,000	ND

ND: Not Detected
MDL: Method Detection Limit

Michael Hayes

TCLP PCBs

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20938-1

GC PCB RESULTS

DOUGLASSVILLE BIO
SAMPLE # A-1

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
ANALYSIS (Date/Time/Init): 10/16/92, 05:45, RGB
EXTRACTED (Date / Init) : 10/1/92, ET

DATE REPORTED: 10/20/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	121	116

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hayes

AR301516

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20938-2

GC PCB RESULTS

DOUGLASSVILLE BIO
SAMPLE # A-2

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
ANALYSIS (Date/Time/Init): 10/16/92, 06:32, RGB
EXTRACTED (Date / Init) : 10/1/92, ET

DATE REPORTED: 10/20/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	108	116

NA: Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hayes

AR301517

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20938-3

GC PCB RESULTS

DOUGLASSVILLE BIO
SAMPLE # A-3

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
ANALYSIS (Date/Time/Init): 10/16/92, 07:18, RGB
EXTRACTED (Date / Init) : 10/1/92, ET

DATE REPORTED: 10/20/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	108	116

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hayes

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20938-4

GC PCB RESULTS

DOUGLASSVILLE BIO
SAMPLE # B-1

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
ANALYSIS (Date/Time/Init): 10/16/92, 08:05, RGB
EXTRACTED (Date / Init) : 10/1/92, ET

DATE REPORTED: 10/20/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND

Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	112	116

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hayes

AR301519

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20938-5

GC PCB RESULTS

DOUGLASSVILLE BIO
SAMPLE # B-2

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
ANALYSIS (Date/Time/Init): 10/16/92, 11:07, RGB
EXTRACTED (Date / Init) : 10/1/92, ET

DATE REPORTED: 10/20/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND
Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	102	116

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hayes

AR301520

KIBER ENVIRONMENTAL SERVICES

LAB SAMPLE # 20938-6

GC PCB RESULTS

DOUGLASSVILLE BIO
SAMPLE # B-3

SAMPLED (Date/Time/Init): 9/23/92, 14:00, PF
ANALYSIS (Date/Time/Init): 10/16/92, 11:54, RGB
EXTRACTED (Date / Init) : 10/1/92, ET

DATE REPORTED: 10/20/92

Dilution Factor: 1.0
Extract Method: 3510

Sample Matrix: TCLP EXTRACT
Analysis Method: 8080

TARGET COMPOUND LIST	CAS Number	PQL	ug/L Concentration	ug/L Blank Conc.
Aroclor-1016	12674-11-2	0.6	ND	ND
Aroclor-1221	11104-28-2	2.5	ND	ND
Aroclor-1232	11141-16-5	1.0	ND	ND
Aroclor-1242	53469-21-9	0.4	ND	ND
Aroclor-1248	12672-29-6	1.2	ND	ND
Aroclor-1254	11097-69-1	0.2	ND	ND
Aroclor-1260	11096-82-5	0.4	ND	ND

Decachlorobiphenyl (surrogate std)	% Recovery	[OK = 60-150]	107	116

NA : Not Added
E: Estimated , ND: Not Detected
PQL: Practical Quantitation Limit

Michael Hayes

KIBER
ENVIRONMENTAL SERVICES, INC.

26 January 1993

Mr. Richard A. Marton
Barr Engineering Company
8300 Norman Center Drive
Minneapolis, MN 55437

Subject: Final Analytical Results for Week Six Samples
Douglassville Biological Study

Dear Rick:

Kiber Environmental Services, Inc. (Kiber) is pleased to present the final analytical results for the week six samples of the Douglassville biological study. The samples were submitted to Kiber by Bioremediation Services, Inc. (BSI) on 15 October 1992 via Federal Express. The analyses conducted were in accordance with Table 2 of the Quality Assurance Project Plan developed by Barr dated July 1992. Included with this letter are results for the following analyses:

- Total Semivolatiles
- Total PCBs
- TPH Volatiles and Semivolatiles
- TCLP PCBs

Please note that any quality assurance information for each of the analyses specified in the Quality Assurance Project Plan, is included with each set of analyses. If you should have any questions, please contact me.

Sincerely,
Kiber Environmental Services, Inc.

Stephen J. Zarlinski
Project Manager

Enclosure

512/SZ263

4000 Dekalb Technology Parkway, N.E. ▲ Suite 200 ▲ Atlanta, Georgia 30340-2763
(404) 455-3944 FAX (404) 451-0155

Chain of Custody

P. Box 2010 • Lake Oswego, OR 97035-0012 • (503) 67[illegible]64/(503) 684-5268 (Fax) • EPA ID# ORD 987173440

Chain of Custody Record

Laboratory KIBER ENVIRONMENTAL Project Manager DAVE EMERY
Lab Project No. WEEK 6 Project No. 38/06-001-RAM-06
Date 10-14-92 Project Name DOUGLASVILLE TIRM TRACKING STUDY

☑ Bill BARR ENGINEERING
☐ Bill Bioremediation Service, Inc.

Liquid with Sediment Sample
____Test Filtrate ____Test Sediment ____Test Both

Multi-Phase Sample (_____)
____Test One (Which) ____Test Separately ____Shake

Samples Received at 4C Yes ☐ No ☐ Provide Verbal Results Yes ☐ No ☐
Appropriate Containers Used Yes ☐ No ☐ Provide Preliminary FAX Results Yes ☑ No ☐

Comments:

Analyses To Be Performed

LAB I.D.	GRAB	COMP	DATE	TIME	SAMPLE LOCATION	#	TPH 8015	PCB TCLP 8080	SOIL/SOLIDS 8270	TCL 8080	Remarks:
A-1		✓	10/14/92	2:00	TRAY A-1	2	✓	✓	✓	✓	
A-2		✓			TRAY A-2	2	✓	✓	✓	✓	
A-3		✓			TRAY A-3	2	✓	✓	✓	✓	
B-1		✓			TRAY B-1	2	✓	✓	✓	✓	
B-2		✓			TRAY B-2	2	✓	✓	✓	✓	
B-3		✓			TRAY B-3	2	✓	✓	✓	✓	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	10/14/92	2:20	[signature]				
Witnessed by: (Signature)	Date 10/15/92	Time 10:45	[signature]	Witnessed by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Remarks:			
Witnessed by: (Signature)	Date	Time					

AR301524