

received
8/17/93
ms



250 EAST WISCONSIN AVENUE, SUITE 1500, MILWAUKEE, WISCONSIN 53202-4209
(414) 347-0800 FAX: (414) 347-0288

August 14, 1993

Mr. Michael Schmoller
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711

Re: Borgerding Estate Analytical Data

Dear Mike:

Enclosed are the laboratory reports for the second round of ground water sampling at the Ursula Borgerding Estate property. The sample locations are shown on the site map provided in the Foth & VanDyke report for the property. If you have any questions, please contact me.

Sincerely,

DAMES & MOORE, Inc.

A handwritten signature in blue ink, appearing to read "Kristine M. Casper".

Kristine M. Casper
Project Manager/Hydrogeologist

Enclosures



ENVIRONMENTAL LABORATORY
1609 Western Avenue

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(414) 498-2222
(800) 236-4067
FAX (414) 498-4067
Green Bay, WI 54307-2435

August 3, 1993

Dames & Moore
250 E Wisconsin Avenue
Suite 1500
Milwaukee, WI 53202

Attn: Kristine Casper

Subject: Sample Received July 22, 1993
Reference: Batch No. 9307162 Sample No. 135972-135992

Enclosed please find a report of analytical results for Sample No. 135972-135992. The samples were analyzed in accordance to the Chain of Custody form contained herewith. We did not experience any difficulties during analysis which may have compromised the enclosed results.

Should you have any questions regarding this report please feel free to call me at 1-800-236-4067. Please have both reference numbers listed above available when making inquiries regarding this report.

Sincerely,

A handwritten signature in cursive script that reads "Barb Rutten".

Barb Rutten
Project Manager

Approval,

A handwritten signature in cursive script that reads "Earl D. Blinnell".

For John Burnett
Laboratory Manager

Enclosed

c: file



ENVIRONMENTAL LABORATORY

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CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-11S
Sample Desc: Groundwater
Date Collected: 7/20/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
BENZENE	1.0	ND
BROMOCHLOROMETHANE	1.0	ND
BROMODICHLOROMETHANE	1.0	ND
BROMOFORM	1.0	ND
BROMOBENZENE	1.0	ND
BROMOMETHANE	1.0	ND
n-BUTYLBENZENE	1.0	ND
STYRENE	1.0	ND
sec-BUTYLBENZENE	1.0	ND
CARBON TETRACHLORIDE	1.0	ND
CHLOROETHANE	1.0	ND
CHLOROMETHANE	1.0	ND
4-CHLOROTOLUENE	1.0	ND
2-CHLOROTOLUENE	1.0	ND
CHLOROBENZENE	1.0	ND
CHLOROFORM	1.0	ND
DIBROMOCHLOROMETHANE	1.0	ND
1,2-DIBROMO-3-CHLOROPROPANE	1.0	ND
1,2-DIBROMOETHANE (EDB)	1.0	ND
DIBROMOMETHANE	1.0	ND
DICHLORODIFLUOROMETHANE	1.0	ND
1,4-DICHLOROBENZENE	1.0	ND
1,2-DICHLOROBENZENE	1.0	ND
1,3-DICHLOROBENZENE	1.0	ND
1,3-DICHLOROPROPANE	1.0	ND
1,2-DICHLOROPROPANE	1.0	ND
2,2-DICHLOROPROPANE	1.0	ND
1,1-DICHLOROETHANE	1.0	1.2
1,1-DICHLOROPROPENE	1.0	ND
cis-1,3-DICHLOROPROPENE	1.0	ND
trans-1,3-DICHLOROPROPENE	1.0	ND

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
1,2-DICHLOROETHANE	1.0	ND
trans-1,2-DICHLOROETHENE	1.0	ND
cis-1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHENE	1.0	ND
ETHYLBENZENE	1.0	ND
HEXACHLOROBUTADIENE	1.0	ND
p-ISOPROPYLTOLUENE	1.0	ND
ISOPROPYLBENZENE	1.0	ND
METHYLENE CHLORIDE	10	ND
NAPHTHALENE	1.0	ND
n-PROPYLBENZENE	1.0	ND
1,1,2,2-TETRACHLOROETHANE	1.0	ND
1,1,1,2-TETRACHLOROETHANE	1.0	ND
TETRACHLOROETHENE	1.0	ND
TRICHLOROFLUOROMETHANE	1.0	ND
1,2,3-TRICHLOROBENZENE	1.0	ND
1,2,4-TRICHLOROBENZENE	1.0	ND
1,1,1-TRICHLOROETHANE	1.0	ND
TRICHLOROETHENE	1.0	ND
1,1,2-TRICHLOROETHANE	1.0	ND
1,2,3-TRICHLOROPROPANE	1.0	ND
1,3,5-TRIMETHYLBENZENE	1.0	ND
1,2,4-TRIMETHYLBENZENE+tert-BUTYLBENZENE	2.0	ND
TOLUENE	1.0	1.2
VINYL CHLORIDE	1.0	ND
o-XYLENE	1.0	ND
m & p-XYLENES	2.0	ND
METHYL-T-BUTYLETHER	1.0	ND
DI-ISOPROPYLETHER	1.0	ND

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135972
Date Analyzed: 7/26/93
Analyzed by Modified EPA Method 8021.

Signed: Christyler J. Ford Date: 8/2/93



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Green Bay, WI 54307-2435

CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-11D
Sample Desc: Groundwater
Date Collected: 7/20/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
BENZENE	10	430
BROMOCHLOROMETHANE	10	ND
BROMODICHLOROMETHANE	10	ND
BROMOFORM	10	ND
BROMOBENZENE	10	ND
BROMOMETHANE	10	ND
n-BUTYLBENZENE	10	16
STYRENE	10	ND
sec-BUTYLBENZENE	10	12
CARBON TETRACHLORIDE	10	ND
CHLOROETHANE	10	ND
CHLOROMETHANE	10	ND
4-CHLOROTOLUENE	10	ND
2-CHLOROTOLUENE	10	ND
CHLOROBENZENE	10	ND
CHLOROFORM	10	ND
DIBROMOCHLOROMETHANE	10	ND
1,2-DIBROMO-3-CHLOROPROPANE	10	ND
1,2-DIBROMOETHANE (EDB)	10	ND
DIBROMOMETHANE	10	ND
DICHLORODIFLUOROMETHANE	10	ND
1,4-DICHLOROBENZENE	10	ND
1,2-DICHLOROBENZENE	10	ND
1,3-DICHLOROBENZENE	10	ND
1,3-DICHLOROPROPANE	10	ND
1,2-DICHLOROPROPANE	10	ND
2,2-DICHLOROPROPANE	10	ND
1,1-DICHLOROETHANE	10	ND
1,1-DICHLOROPROPENE	10	ND
cis-1,3-DICHLOROPROPENE	10	ND
trans-1,3-DICHLOROPROPENE	10	ND

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
1,2-DICHLOROETHANE	10	ND
trans-1,2-DICHLOROETHENE	10	ND
cis-1,2-DICHLOROETHENE	10	ND
1,1-DICHLOROETHENE	10	ND
ETHYLBENZENE	10	ND
HEXACHLOROBUTADIENE	10	ND
p-ISOPROPYLTOLUENE	10	ND
ISOPROPYLBENZENE	10	79
METHYLENE CHLORIDE	100	ND
NAPHTHALENE	10	230
n-PROPYLBENZENE	10	160
1,1,2,2-TETRACHLOROETHANE	10	ND
1,1,1,2-TETRACHLOROETHANE	10	ND
TETRACHLOROETHENE	10	ND
TRICHLOROFLUOROMETHANE	10	ND
1,2,3-TRICHLOROBENZENE	10	ND
1,2,4-TRICHLOROBENZENE	10	ND
1,1,1-TRICHLOROETHANE	10	ND
TRICHLOROETHENE	10	ND
1,1,2-TRICHLOROETHANE	10	ND
1,2,3-TRICHLOROPROPANE	10	ND
1,3,5-TRIMETHYLBENZENE	10	ND
1,2,4-TRIMETHYLBENZENE+tert-BUTYLBENZENE	20	ND
TOLUENE	10	ND
VINYL CHLORIDE	10	ND
o-XYLENE	10	ND
m & p-XYLENES	20	ND
METHYL-T-BUTYLETHER	10	ND
DI-ISOPROPYLETHER	10	ND

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135973
Date Analyzed: 7/30/93
Analyzed by Modified EPA Method 8021.

Signed: Christina J. Jyl Date: 8/2/93



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CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-11DD
Sample Desc: Groundwater
Date Collected: 7/20/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

Table with 3 columns: PARAMETERS, DETECTION LIMITS, RESULTS. Lists various chemical compounds and their detection results.

Table with 3 columns: PARAMETERS, DETECTION LIMITS, RESULTS. Lists various chemical compounds and their detection results.

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135974
Date Analyzed: 7/26/93
Analyzed by Modified EPA Method 8021.

Signed: [Signature] Date: 8/2/93



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CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-4
Sample Desc: Groundwater
Date Collected: 7/20/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

Table with 3 columns: PARAMETERS, DETECTION LIMITS, RESULTS ug/l. Lists various chemical compounds and their detection status.

Table with 3 columns: PARAMETERS, DETECTION LIMITS, RESULTS ug/l. Lists various chemical compounds and their detection status.

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135975
Date Analyzed: 7/26/93
Analyzed by Modified EPA Method 8021.

Signed: [Signature] Date: 8/2/93



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Green Bay, WI 54307-2435

CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-10D
Sample Desc: Groundwater
Date Collected: 7/21/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

Table with 3 columns: PARAMETERS, DETECTION LIMITS, RESULTS ug/l. Lists various organic compounds and their detection levels.

Table with 3 columns: PARAMETERS, DETECTION LIMITS, RESULTS ug/l. Lists various organic compounds and their detection levels.

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135976
Date Analyzed: 7/26/93
Analyzed by Modified EPA Method 8021.

Signed: Christopher J. Drel Date: 8/2/93



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CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-10S
Sample Desc: Groundwater
Date Collected: 7/21/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
BENZENE	1.0	10
BROMOCHLOROMETHANE	1.0	ND
BROMODICHLOROMETHANE	1.0	ND
BROMOFORM	1.0	ND
BROMOBENZENE	1.0	ND
BROMOMETHANE	1.0	ND
n-BUTYLBENZENE	1.0	7.1
STYRENE	1.0	ND
sec-BUTYLBENZENE	1.0	3.0
CARBON TETRACHLORIDE	1.0	ND
CHLOROETHANE	1.0	ND
CHLOROMETHANE	1.0	ND
4-CHLOROTOLUENE	1.0	ND
2-CHLOROTOLUENE	1.0	ND
CHLOROBENZENE	1.0	ND
CHLOROFORM	1.0	ND
DIBROMOCHLOROMETHANE	1.0	ND
1,2-DIBROMO-3-CHLOROPROPANE	1.0	ND
1,2-DIBROMOETHANE (EDB)	1.0	ND
DIBROMOMETHANE	1.0	ND
DICHLORODIFLUOROMETHANE	1.0	ND
1,4-DICHLOROBENZENE	1.0	ND
1,2-DICHLOROBENZENE	1.0	ND
1,3-DICHLOROBENZENE	1.0	ND
1,3-DICHLOROPROPANE	1.0	ND
1,2-DICHLOROPROPANE	1.0	ND
2,2-DICHLOROPROPANE	1.0	ND
1,1-DICHLOROETHANE	1.0	ND
1,1-DICHLOROPROPENE	1.0	ND
cis-1,3-DICHLOROPROPENE	1.0	ND
trans-1,3-DICHLOROPROPENE	1.0	ND

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
1,2-DICHLOROETHANE	1.0	ND
trans-1,2-DICHLOROETHENE	1.0	ND
cis-1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHENE	1.0	ND
ETHYLBENZENE	1.0	ND
HEXACHLOROBUTADIENE	1.0	ND
p-ISOPROPYLTOLUENE	1.0	3.9
ISOPROPYLBENZENE	1.0	5.4
METHYLENE CHLORIDE	10	ND
NAPHTHALENE	1.0	94
n-PROPYLBENZENE	1.0	12
1,1,2,2-TETRACHLOROETHANE	1.0	ND
1,1,1,2-TETRACHLOROETHANE	1.0	ND
TETRACHLOROETHENE	1.0	ND
TRICHLOROFUOROMETHANE	1.0	ND
1,2,3-TRICHLOROBENZENE	1.0	ND
1,2,4-TRICHLOROBENZENE	1.0	ND
1,1,1-TRICHLOROETHANE	1.0	ND
TRICHLOROETHENE	1.0	ND
1,1,2-TRICHLOROETHANE	1.0	ND
1,2,3-TRICHLOROPROPANE	1.0	ND
1,3,5-TRIMETHYLBENZENE	1.0	ND
1,2,4-TRIMETHYLBENZENE+tert-BUTYLBENZENE	2.0	2.2
TOLUENE	1.0	1.9
VINYL CHLORIDE	1.0	ND
o-XYLENE	1.0	ND
m & p-XYLENES	2.0	ND
METHYL-T-BUTYLETHER	1.0	ND
DI-ISOPROPYLETHER	1.0	ND

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135977
Date Analyzed: 7/30/93
Analyzed by Modified EPA Method 8021.

Signed: Christopher J. Juhl Date: 8/2/93



ENVIRONMENTAL LABORATORY

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CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-9
Sample Desc: Groundwater
Date Collected: 7/20/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
BENZENE	1.0	ND
BROMOCHLOROMETHANE	1.0	ND
BROMODICHLOROMETHANE	1.0	ND
BROMOFORM	1.0	ND
BROMOBENZENE	1.0	ND
BROMOMETHANE	1.0	ND
n-BUTYLBENZENE	1.0	ND
STYRENE	1.0	ND
sec-BUTYLBENZENE	1.0	ND
CARBON TETRACHLORIDE	1.0	ND
CHLOROETHANE	1.0	ND
CHLOROMETHANE	1.0	ND
4-CHLOROTOLUENE	1.0	ND
2-CHLOROTOLUENE	1.0	ND
CHLOROBENZENE	1.0	ND
CHLOROFORM	1.0	ND
DIBROMOCHLOROMETHANE	1.0	ND
1,2-DIBROMO-3-CHLOROPROPANE	1.0	ND
1,2-DIBROMOETHANE (EDB)	1.0	ND
DIBROMOMETHANE	1.0	ND
DICHLORODIFLUOROMETHANE	1.0	ND
1,4-DICHLOROBENZENE	1.0	ND
1,2-DICHLOROBENZENE	1.0	ND
1,3-DICHLOROBENZENE	1.0	ND
1,3-DICHLOROPROPANE	1.0	ND
1,2-DICHLOROPROPANE	1.0	ND
2,2-DICHLOROPROPANE	1.0	ND
1,1-DICHLOROETHANE	1.0	ND
1,1-DICHLOROPROPENE	1.0	ND
cis-1,3-DICHLOROPROPENE	1.0	ND
trans-1,3-DICHLOROPROPENE	1.0	ND

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
1,2-DICHLOROETHANE	1.0	ND
trans-1,2-DICHLOROETHENE	1.0	ND
cis-1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHENE	1.0	ND
ETHYLBENZENE	1.0	ND
HEXACHLOROBUTADIENE	1.0	ND
p-ISOPROPYLTOLUENE	1.0	ND
ISOPROPYLBENZENE	1.0	ND
METHYLENE CHLORIDE	10	ND
NAPHTHALENE	1.0	ND
n-PROPYLBENZENE	1.0	ND
1,1,2,2-TETRACHLOROETHANE	1.0	ND
1,1,1,2-TETRACHLOROETHANE	1.0	ND
TETRACHLOROETHENE	1.0	ND
TRICHLOROFUOROMETHANE	1.0	ND
1,2,3-TRICHLOROBENZENE	1.0	ND
1,2,4-TRICHLOROBENZENE	1.0	ND
1,1,1-TRICHLOROETHANE	1.0	ND
TRICHLOROETHENE	1.0	ND
1,1,2-TRICHLOROETHANE	1.0	ND
1,2,3-TRICHLOROPROPANE	1.0	ND
1,3,5-TRIMETHYLBENZENE	1.0	ND
1,2,4-TRIMETHYLBENZENE+tert-BUTYLBENZENE	2.0	ND
TOLUENE	1.0	ND
VINYL CHLORIDE	1.0	ND
o-XYLENE	1.0	ND
m & p-XYLENES	2.0	ND
METHYL-T-BUTYLEETHER	1.0	ND
DI-ISOPROPYLEETHER	1.0	ND

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135978
Date Analyzed: 7/30/93
Analyzed by Modified EPA Method 8021.

Signed: Christyler J. J... Date: 8/2/93



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Green Bay, WI 54307-2435

CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-5
Sample Desc: Groundwater
Date Collected: 7/21/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
BENZENE	1.0	ND
BROMOCHLOROMETHANE	1.0	ND
BROMODICHLOROMETHANE	1.0	ND
BROMOFORM	1.0	ND
BROMOBENZENE	1.0	ND
BROMOMETHANE	1.0	ND
n-BUTYLBENZENE	1.0	ND
STYRENE	1.0	ND
sec-BUTYLBENZENE	1.0	ND
CARBON TETRACHLORIDE	1.0	ND
CHLOROETHANE	1.0	ND
CHLOROMETHANE	1.0	ND
4-CHLOROTOLUENE	1.0	ND
2-CHLOROTOLUENE	1.0	ND
CHLOROBENZENE	1.0	ND
CHLOROFORM	1.0	ND
DIBROMOCHLOROMETHANE	1.0	ND
1,2-DIBROMO-3-CHLOROPROPANE	1.0	ND
1,2-DIBROMOETHANE (EDB)	1.0	ND
DIBROMOMETHANE	1.0	ND
DICHLORODIFLUOROMETHANE	1.0	ND
1,4-DICHLOROBENZENE	1.0	ND
1,2-DICHLOROBENZENE	1.0	ND
1,3-DICHLOROBENZENE	1.0	ND
1,3-DICHLOROPROPANE	1.0	ND
1,2-DICHLOROPROPANE	1.0	ND
2,2-DICHLOROPROPANE	1.0	ND
1,1-DICHLOROETHANE	1.0	ND
1,1-DICHLOROPROPENE	1.0	ND
cis-1,3-DICHLOROPROPENE	1.0	ND
trans-1,3-DICHLOROPROPENE	1.0	ND

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
1,2-DICHLOROETHANE	1.0	ND
trans-1,2-DICHLOROETHENE	1.0	ND
cis-1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHENE	1.0	ND
ETHYLBENZENE	1.0	ND
HEXACHLOROBUTADIENE	1.0	ND
p-ISOPROPYLTOLUENE	1.0	ND
ISOPROPYLBENZENE	1.0	ND
METHYLENE CHLORIDE	10	ND
NAPHTHALENE	1.0	ND
n-PROPYLBENZENE	1.0	ND
1,1,2,2-TETRACHLOROETHANE	1.0	ND
1,1,1,2-TETRACHLOROETHANE	1.0	ND
TETRACHLOROETHENE	1.0	ND
TRICHLOROFLUOROMETHANE	1.0	ND
1,2,3-TRICHLOROBENZENE	1.0	ND
1,2,4-TRICHLOROBENZENE	1.0	ND
1,1,1-TRICHLOROETHANE	1.0	ND
TRICHLOROETHENE	1.0	ND
1,1,2-TRICHLOROETHANE	1.0	ND
1,2,3-TRICHLOROPROPANE	1.0	ND
1,3,5-TRIMETHYLBENZENE	1.0	ND
1,2,4-TRIMETHYLBENZENE+tert-BUTYLBENZENE	2.0	ND
TOLUENE	1.0	ND
VINYL CHLORIDE	1.0	ND
o-XYLENE	1.0	ND
m & p-XYLENES	2.0	ND
METHYL-T-BUTYLETHER	1.0	18
DI-ISOPROPYLETHER	1.0	ND

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135979
Date Analyzed: 7/26/93
Analyzed by Modified EPA Method 8021.

Signed: Christopher J. Juh Date: 8/2/93



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CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: Trip Blank 1
Sample Desc: Water
Date Collected: 7/21/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

Table with 6 columns: PARAMETERS, DETECTION LIMITS, RESULTS ug/l, PARAMETERS, DETECTION LIMITS, RESULTS ug/l. Lists various chemical compounds and their detection results.

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135980
Date Analyzed: 7/29/93
Analyzed by Modified EPA Method 8021.

Signed: [Signature] Date: 8/2/93



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CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: FB-1
Sample Desc: Water
Date Collected: 7/21/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

Table with 3 columns: PARAMETERS, DETECTION LIMITS, RESULTS. Lists various organic compounds and their detection status.

Table with 3 columns: PARAMETERS, DETECTION LIMITS, RESULTS. Lists various organic compounds and their detection status.

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135981
Date Analyzed: 7/29/93
Analyzed by Modified EPA Method 8021.

Signed: Christopher J. [Signature] Date: 8/2/93



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ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: FB-2
Sample Desc: Water
Date Collected: 7/21/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
BENZENE	1.0	ND
BROMOCHLOROMETHANE	1.0	ND
BROMODICHLOROMETHANE	1.0	ND
BROMOFORM	1.0	ND
BROMOBENZENE	1.0	ND
BROMOMETHANE	1.0	ND
n-BUTYLBENZENE	1.0	ND
STYRENE	1.0	ND
sec-BUTYLBENZENE	1.0	ND
CARBON TETRACHLORIDE	1.0	ND
CHLOROETHANE	1.0	ND
CHLOROMETHANE	1.0	ND
4-CHLOROTOLUENE	1.0	ND
2-CHLOROTOLUENE	1.0	ND
CHLOROBENZENE	1.0	ND
CHLOROFORM	1.0	ND
DIBROMOCHLOROMETHANE	1.0	ND
1,2-DIBROMO-3-CHLOROPROPANE	1.0	ND
1,2-DIBROMOETHANE (EDB)	1.0	ND
DIBROMOMETHANE	1.0	ND
DICHLORODIFLUOROMETHANE	1.0	ND
1,4-DICHLOROBENZENE	1.0	ND
1,2-DICHLOROBENZENE	1.0	ND
1,3-DICHLOROBENZENE	1.0	ND
1,3-DICHLOROPROPANE	1.0	ND
1,2-DICHLOROPROPANE	1.0	ND
2,2-DICHLOROPROPANE	1.0	ND
1,1-DICHLOROETHANE	1.0	ND
1,1-DICHLOROPROPENE	1.0	ND
cis-1,3-DICHLOROPROPENE	1.0	ND
trans-1,3-DICHLOROPROPENE	1.0	ND

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
1,2-DICHLOROETHANE	1.0	ND
trans-1,2-DICHLOROETHENE	1.0	ND
cis-1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHENE	1.0	ND
ETHYLBENZENE	1.0	ND
HEXACHLOROBUTADIENE	1.0	ND
p-ISOPROPYLTOLUENE	1.0	ND
ISOPROPYLBENZENE	1.0	ND
METHYLENE CHLORIDE	10	ND
NAPHTHALENE	1.0	ND
n-PROPYLBENZENE	1.0	ND
1,1,2,2-TETRACHLOROETHANE	1.0	ND
1,1,1,2-TETRACHLOROETHANE	1.0	ND
TETRACHLOROETHENE	1.0	ND
TRICHLOROFUOROMETHANE	1.0	ND
1,2,3-TRICHLOROBENZENE	1.0	ND
1,2,4-TRICHLOROBENZENE	1.0	ND
1,1,1-TRICHLOROETHANE	1.0	ND
TRICHLOROETHENE	1.0	ND
1,1,2-TRICHLOROETHANE	1.0	ND
1,2,3-TRICHLOROPROPANE	1.0	ND
1,3,5-TRIMETHYLBENZENE	1.0	ND
1,2,4-TRIMETHYLBENZENE+tert-BUTYLBENZENE	2.0	ND
TOLUENE	1.0	1.0
VINYL CHLORIDE	1.0	ND
o-XYLENE	1.0	ND
m & p-XYLENES	2.0	ND
METHYL-T-BUTYLETHER	1.0	ND
DI-ISOPROPYLETHER	1.0	ND

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135982
Date Analyzed: 7/29/93
Analyzed by Modified EPA Method 8021.

Signed: Christopher J. Dyer Date: 8/2/93



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CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-2DD
Sample Desc: Groundwater
Date Collected: 7/21/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
BENZENE	1.0	2.4
BROMOCHLOROMETHANE	1.0	ND
BROMODICHLOROMETHANE	1.0	ND
BROMOFORM	1.0	ND
BROMOBENZENE	1.0	ND
BROMOMETHANE	1.0	ND
n-BUTYLBENZENE	1.0	ND
STYRENE	1.0	ND
sec-BUTYLBENZENE	1.0	ND
CARBON TETRACHLORIDE	1.0	ND
CHLOROETHANE	1.0	ND
CHLOROMETHANE	1.0	ND
4-CHLOROTOLUENE	1.0	ND
2-CHLOROTOLUENE	1.0	ND
CHLOROBENZENE	1.0	ND
CHLOROFORM	1.0	ND
DIBROMOCHLOROMETHANE	1.0	ND
1,2-DIBROMO-3-CHLOROPROPANE	1.0	ND
1,2-DIBROMOETHANE (EDB)	1.0	ND
DIBROMOMETHANE	1.0	ND
DICHLORODIFLUOROMETHANE	1.0	ND
1,4-DICHLOROBENZENE	1.0	ND
1,2-DICHLOROBENZENE	1.0	ND
1,3-DICHLOROBENZENE	1.0	ND
1,3-DICHLOROPROPANE	1.0	ND
1,2-DICHLOROPROPANE	1.0	ND
2,2-DICHLOROPROPANE	1.0	ND
1,1-DICHLOROETHANE	1.0	28
1,1-DICHLOROPROPENE	1.0	ND
cis-1,3-DICHLOROPROPENE	1.0	ND
trans-1,3-DICHLOROPROPENE	1.0	ND

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
1,2-DICHLOROETHANE	1.0	ND
trans-1,2-DICHLOROETHENE	1.0	1.3
cis-1,2-DICHLOROETHENE	1.0	34
1,1-DICHLOROETHENE	1.0	ND
ETHYLBENZENE	1.0	ND
HEXACHLOROBUTADIENE	1.0	ND
p-ISOPROPYLTOLUENE	1.0	ND
ISOPROPYLBENZENE	1.0	ND
METHYLENE CHLORIDE	10	ND
NAPHTHALENE	1.0	ND
n-PROPYLBENZENE	1.0	ND
1,1,2,2-TETRACHLOROETHANE	1.0	ND
1,1,1,2-TETRACHLOROETHANE	1.0	ND
TETRACHLOROETHENE	1.0	3.6
TRICHLOROFUOROMETHANE	1.0	ND
1,2,3-TRICHLOROBENZENE	1.0	ND
1,2,4-TRICHLOROBENZENE	1.0	ND
1,1,1-TRICHLOROETHANE	1.0	4.6
TRICHLOROETHENE	1.0	26
1,1,2-TRICHLOROETHANE	1.0	ND
1,2,3-TRICHLOROPROPANE	1.0	ND
1,3,5-TRIMETHYLBENZENE	1.0	ND
1,2,4-TRIMETHYLBENZENE+tert-BUTYLBENZENE	2.0	ND
TOLUENE	1.0	5.4
VINYL CHLORIDE	1.0	ND
o-XYLENE	1.0	ND
m & p-XYLENES	2.0	ND
METHYL-T-BUTYLETHER	1.0	ND
DI-ISOPROPYLETHER	1.0	ND

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135985
Date Analyzed: 7/30/93
Analyzed by Modified EPA Method 8021.

Signed: Christopher J. [Signature] Date: 8/2/93



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CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-3DD
Sample Desc: Groundwater
Date Collected: 7/21/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

Table with 3 columns: PARAMETERS, DETECTION LIMITS, RESULTS ug/l. Lists various chemical compounds and their detection limits and results.

Table with 3 columns: PARAMETERS, DETECTION LIMITS, RESULTS ug/l. Lists various chemical compounds and their detection limits and results.

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135986
Date Analyzed: 7/29/93
Analyzed by Modified EPA Method 8021.

Signed: [Signature] Date: 8/2/93



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CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
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MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-3S
Sample Desc: Groundwater
Date Collected: 7/21/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

PARAMETERS	DETECTION LIMITS	RESULTS ug/l	PARAMETERS	DETECTION LIMITS	RESULTS ug/l
BENZENE	20	6,900 E	1,2-DICHLOROETHANE	20	ND
BROMOCHLOROMETHANE	20	ND	trans-1,2-DICHLOROETHENE	20	ND
BROMODICHLOROMETHANE	20	ND	cis-1,2-DICHLOROETHENE	20	ND
BROMOFORM	20	ND	1,1-DICHLOROETHENE	20	ND
BROMOBENZENE	20	ND	ETHYLBENZENE	20	1,200
BROMOMETHANE	20	ND	HEXACHLOROBUTADIENE	20	ND
n-BUTYLBENZENE	20	220	p-ISOPROPYLTOLUENE	20	380
STYRENE	20	ND	ISOPROPYLBENZENE	20	68
sec-BUTYLBENZENE	20	ND	METHYLENE CHLORIDE	200	ND
CARBON TETRACHLORIDE	20	ND	NAPHTHALENE	20	610
CHLOROETHANE	20	ND	n-PROPYLBENZENE	20	210
CHLOROMETHANE	20	ND	1,1,2,2-TETRACHLOROETHANE	20	ND
4-CHLOROTOLUENE	20	ND	1,1,1,2-TETRACHLOROETHANE	20	ND
2-CHLOROTOLUENE	20	ND	TETRACHLOROETHENE	20	ND
CHLOROBENZENE	20	ND	TRICHLOROFUOROMETHANE	20	ND
CHLOROFORM	20	ND	1,2,3-TRICHLOROENZENE	20	ND
DIBROMOCHLOROMETHANE	20	ND	1,2,4-TRICHLOROENZENE	20	ND
1,2-DIBROMO-3-CHLOROPROPANE	20	ND	1,1,1-TRICHLOROETHANE	20	ND
1,2-DIBROMOETHANE (EDB)	20	ND	TRICHLOROETHENE	20	ND
DIBROMOMETHANE	20	ND	1,1,2-TRICHLOROETHANE	20	ND
DICHLORODIFLUOROMETHANE	20	ND	1,2,3-TRICHLOROPROPANE	20	ND
1,4-DICHLOROENZENE	20	ND	1,3,5-TRIMETHYLBENZENE	20	330
1,2-DICHLOROENZENE	20	ND	1,2,4-TRIMETHYLBENZENE+tert-BUTYLBENZENE	40	1,300
1,3-DICHLOROENZENE	20	ND	TOLUENE	20	1,500
1,3-DICHLOROPROPANE	20	ND	VINYL CHLORIDE	20	ND
1,2-DICHLOROPROPANE	20	ND	o-XYLENE	20	740
2,2-DICHLOROPROPANE	20	ND	m & p-XYLENES	40	3,500
1,1-DICHLOROETHANE	20	ND	METHYL-T-BUTYLETHER	20	ND
1,1-DICHLOROPROPENE	20	ND	DI-ISOPROPYLETHER	20	ND
cis-1,3-DICHLOROPROPENE	20	ND			
trans-1,3-DICHLOROPROPENE	20	ND			

ND = Not Detected

E = Compound exceeds calibration range

COMMENTS: Lab Sample ID: 9307162-135983
Date Analyzed: 7/30/93
Analyzed by Modified EPA Method 8021.

Signed: Christopher J. Zyl Date: 8/2/93



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ADDRESS: 250 E WISCONSIN AVE
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MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-3D
Sample Desc: Groundwater
Date Collected: 7/21/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

PARAMETERS	DETECTION LIMITS	RESULTS ug/l	PARAMETERS	DETECTION LIMITS	RESULTS ug/l
BENZENE	20	1,400	1,2-DICHLOROETHANE	20	ND
BROMOCHLOROMETHANE	20	ND	trans-1,2-DICHLOROETHENE	20	ND
BROMODICHLOROMETHANE	20	ND	cis-1,2-DICHLOROETHENE	20	ND
BROMOFORM	20	ND	1,1-DICHLOROETHENE	20	ND
BROMOBENZENE	20	ND	ETHYLBENZENE	20	70
BROMOMETHANE	20	ND	HEXACHLOROBUTADIENE	20	ND
n-BUTYLBENZENE	20	ND	p-ISOPROPYLTOLUENE	20	37
STYRENE	20	ND	ISOPROPYLBENZENE	20	ND
sec-BUTYLBENZENE	20	ND	METHYLENE CHLORIDE	200	ND
CARBON TETRACHLORIDE	20	ND	NAPHTHALENE	20	ND
CHLOROETHANE	20	ND	n-PROPYLBENZENE	20	ND
CHLOROMETHANE	20	ND	1,1,2,2-TETRACHLOROETHANE	20	ND
4-CHLOROTOLUENE	20	ND	1,1,1,2-TETRACHLOROETHANE	20	ND
2-CHLOROTOLUENE	20	ND	TETRACHLOROETHENE	20	ND
CHLOROBENZENE	20	ND	TRICHLOROFLUOROMETHANE	20	ND
CHLOROFORM	20	ND	1,2,3-TRICHLOROBENZENE	20	ND
DIBROMOCHLOROMETHANE	20	ND	1,2,4-TRICHLOROBENZENE	20	ND
1,2-DIBROMO-3-CHLOROPROPANE	20	ND	1,1,1-TRICHLOROETHANE	20	ND
1,2-DIBROMOETHANE (EDB)	20	ND	TRICHLOROETHENE	20	ND
DIBROMOMETHANE	20	ND	1,1,2-TRICHLOROETHANE	20	ND
DICHLORODIFLUOROMETHANE	20	ND	1,2,3-TRICHLOROPROPANE	20	ND
1,4-DICHLOROBENZENE	20	ND	1,3,5-TRIMETHYLBENZENE	20	23
1,2-DICHLOROBENZENE	20	ND	1,2,4-TRIMETHYLBENZENE+tert-BUTYLBENZENE	40	ND
1,3-DICHLOROBENZENE	20	ND	TOLUENE	20	ND
1,3-DICHLOROPROPANE	20	ND	VINYL CHLORIDE	20	ND
1,2-DICHLOROPROPANE	20	ND	o-XYLENE	20	ND
2,2-DICHLOROPROPANE	20	ND	m & p-XYLENES	40	150
1,1-DICHLOROETHANE	20	ND	METHYL-T-BUTYLEETHER	20	ND
1,1-DICHLOROPROPENE	20	ND	DI-ISOPROPYLEETHER	20	ND
cis-1,3-DICHLOROPROPENE	20	ND			
trans-1,3-DICHLOROPROPENE	20	ND			

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135987
Date Analyzed: 7/30/93
Analyzed by Modified EPA Method 8021.

Signed: Christopher J. Dyk Date: 8/2/93



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MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-3DA
Sample Desc: Groundwater
Date Collected: 7/21/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

Table with 3 columns: PARAMETERS, DETECTION LIMITS, RESULTS ug/l. Lists various chemical compounds and their detection limits and results.

Table with 3 columns: PARAMETERS, DETECTION LIMITS, RESULTS ug/l. Lists various chemical compounds and their detection limits and results.

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135984
Date Analyzed: 7/30/93
Analyzed by Modified EPA Method 8021.

Signed: Christopher J. D... Date: 8/2/93



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Wisconsin Certification No: 405099530

Sample ID: MW-2S
Sample Desc: Groundwater
Date Collected: 7/21/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
BENZENE	2.0	78
BROMOCHLOROMETHANE	2.0	ND
BROMODICHLOROMETHANE	2.0	ND
BROMOFORM	2.0	ND
BROMOBENZENE	2.0	ND
BROMOMETHANE	2.0	ND
n-BUTYLBENZENE	2.0	14
STYRENE	2.0	ND
sec-BUTYLBENZENE	2.0	2.0
CARBON TETRACHLORIDE	2.0	ND
CHLOROETHANE	2.0	ND
CHLOROMETHANE	2.0	ND
4-CHLOROTOLUENE	2.0	ND
2-CHLOROTOLUENE	2.0	ND
CHLOROBENZENE	2.0	ND
CHLOROFORM	2.0	ND
DIBROMOCHLOROMETHANE	2.0	ND
1,2-DIBROMO-3-CHLOROPROPANE	2.0	ND
1,2-DIBROMOETHANE (EDB)	2.0	ND
DIBROMOMETHANE	2.0	ND
DICHLORODIFLUOROMETHANE	2.0	ND
1,4-DICHLOROBENZENE	2.0	ND
1,2-DICHLOROBENZENE	2.0	ND
1,3-DICHLOROBENZENE	2.0	ND
1,3-DICHLOROPROPANE	2.0	ND
1,2-DICHLOROPROPANE	2.0	ND
2,2-DICHLOROPROPANE	2.0	ND
1,1-DICHLOROETHANE	2.0	ND
1,1-DICHLOROPROPENE	2.0	ND
cis-1,3-DICHLOROPROPENE	2.0	ND
trans-1,3-DICHLOROPROPENE	2.0	ND

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
1,2-DICHLOROETHANE	2.0	ND
trans-1,2-DICHLOROETHENE	2.0	ND
cis-1,2-DICHLOROETHENE	2.0	ND
1,1-DICHLOROETHENE	2.0	ND
ETHYLBENZENE	2.0	19
HEXACHLOROBUTADIENE	2.0	ND
p-ISOPROPYLTOLUENE	2.0	8.6
ISOPROPYLBENZENE	2.0	11
METHYLENE CHLORIDE	20	ND
NAPHTHALENE	2.0	56
n-PROPYLBENZENE	2.0	29
1,1,2,2-TETRACHLOROETHANE	2.0	ND
1,1,1,2-TETRACHLOROETHANE	2.0	ND
TETRACHLOROETHENE	2.0	ND
TRICHLOROFUOROMETHANE	2.0	ND
1,2,3-TRICHLOROBENZENE	2.0	ND
1,2,4-TRICHLOROBENZENE	2.0	ND
1,1,1-TRICHLOROETHANE	2.0	ND
TRICHLOROETHENE	2.0	ND
1,1,2-TRICHLOROETHANE	2.0	ND
1,2,3-TRICHLOROPROPANE	2.0	ND
1,3,5-TRIMETHYLBENZENE	2.0	13
1,2,4-TRIMETHYLBENZENE+tert-BUTYLBENZENE	4.0	33
TOLUENE	2.0	7.5
VINYL CHLORIDE	2.0	ND
o-XYLENE	2.0	ND
m & p-XYLENES	4.0	28
METHYL-T-BUTYLETHER	2.0	ND
DI-ISOPROPYLETHER	2.0	ND

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135988
Date Analyzed: 7/31/93
Analyzed by Modified EPA Method 8021.

Signed: Christopher J. Ziel Date: 8/2/93



ENVIRONMENTAL LABORATORY

1609 Western Avenue

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Green Bay, WI 54307-2435

CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-1DD
Sample Desc: Groundwater
Date Collected: 7/21/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

Table with 6 columns: PARAMETERS, DETECTION LIMITS, RESULTS ug/l, PARAMETERS, DETECTION LIMITS, RESULTS ug/l. Lists various chemical compounds and their detection levels.

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135989
Date Analyzed: 7/30/93
Analyzed by Modified EPA Method 8021.

Signed: Christopher J. DeL... Date: 8/1/93



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CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-1
Sample Desc: Groundwater
Date Collected: 7/21/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

PARAMETERS	DETECTION LIMITS	RESULTS ug/l	PARAMETERS	DETECTION LIMITS	RESULTS ug/l
BENZENE	250	7,000	1,2-DICHLOROETHANE	250	ND
BROMOCHLOROMETHANE	250	ND	trans-1,2-DICHLOROETHENE	250	ND
BROMODICHLOROMETHANE	250	ND	cis-1,2-DICHLOROETHENE	250	ND
BROMOFORM	250	ND	1,1-DICHLOROETHENE	250	ND
BROMOBENZENE	250	ND	ETHYLBENZENE	250	1,000
BROMOMETHANE	250	ND	HEXACHLOROBUTADIENE	250	ND
n-BUTYLBENZENE	250	ND	p-ISOPROPYLTOLUENE	250	300
STYRENE	250	ND	ISOPROPYLBENZENE	250	ND
sec-BUTYLBENZENE	250	ND	METHYLENE CHLORIDE	2500	ND
CARBON TETRACHLORIDE	250	ND	NAPHTHALENE	250	360
CHLOROETHANE	250	ND	n-PROPYLBENZENE	250	ND
CHLOROMETHANE	250	ND	1,1,2,2-TETRACHLOROETHANE	250	ND
4-CHLOROTOLUENE	250	ND	1,1,1,2-TETRACHLOROETHANE	250	ND
2-CHLOROTOLUENE	250	ND	TETRACHLOROETHENE	250	ND
CHLOROBENZENE	250	ND	TRICHLOROFLUOROMETHANE	250	ND
CHLOROFORM	250	ND	1,2,3-TRICHLOROBENZENE	250	ND
DIBROMOCHLOROMETHANE	250	ND	1,2,4-TRICHLOROBENZENE	250	ND
1,2-DIBROMO-3-CHLOROPROPANE	250	ND	1,1,1-TRICHLOROETHANE	250	ND
1,2-DIBROMOETHANE (EDB)	250	ND	TRICHLOROETHENE	250	ND
DIBROMOMETHANE	250	ND	1,1,2-TRICHLOROETHANE	250	ND
DICHLORODIFLUOROMETHANE	250	ND	1,2,3-TRICHLOROPROPANE	250	ND
1,4-DICHLOROBENZENE	250	ND	1,3,5-TRIMETHYLBENZENE	250	250
1,2-DICHLOROBENZENE	250	ND	1,2,4-TRIMETHYLBENZENE+tert-BUTYLBENZENE	500	1,100
1,3-DICHLOROBENZENE	250	ND	TOLUENE	250	1,300
1,3-DICHLOROPROPANE	250	ND	VINYL CHLORIDE	250	ND
1,2-DICHLOROPROPANE	250	ND	o-XYLENE	250	610
2,2-DICHLOROPROPANE	250	ND	m & p-XYLENES	500	3,000
1,1-DICHLOROETHANE	250	ND	METHYL-T-BUTYLEETHER	250	ND
1,1-DICHLOROPROPENE	250	ND	DI-ISOPROPYLEETHER	250	ND
cis-1,3-DICHLOROPROPENE	250	ND			
trans-1,3-DICHLOROPROPENE	250	ND			

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135990
Date Analyzed: 7/30/93
Analyzed by Modified EPA Method 8021.

Signed: Christopher J. Fink Date: 8/2/93



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CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-2SA
Sample Desc: Groundwater
Date Collected: 7/21/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

PARAMETERS	DETECTION LIMITS	RESULTS ug/l	PARAMETERS	DETECTION LIMITS	RESULTS ug/l
BENZENE	2.0	74	1,2-DICHLOROETHANE	2.0	ND
BROMOCHLOROMETHANE	2.0	ND	trans-1,2-DICHLOROETHENE	2.0	ND
BROMODICHLOROMETHANE	2.0	ND	cis-1,2-DICHLOROETHENE	2.0	ND
BROMOFORM	2.0	ND	1,1-DICHLOROETHENE	2.0	ND
BROMOBENZENE	2.0	ND	ETHYLBENZENE	2.0	18
BROMOMETHANE	2.0	ND	HEXACHLOROBUTADIENE	2.0	ND
n-BUTYLBENZENE	2.0	14	p-ISOPROPYLTOLUENE	2.0	8.9
STYRENE	2.0	ND	ISOPROPYLBENZENE	2.0	10
sec-BUTYLBENZENE	2.0	ND	METHYLENE CHLORIDE	20	ND
CARBON TETRACHLORIDE	2.0	ND	NAPHTHALENE	2.0	56
CHLOROETHANE	2.0	ND	n-PROPYLBENZENE	2.0	28
CHLOROMETHANE	2.0	ND	1,1,2,2-TETRACHLOROETHANE	2.0	ND
4-CHLOROTOLUENE	2.0	ND	1,1,1,2-TETRACHLOROETHANE	2.0	ND
2-CHLOROTOLUENE	2.0	ND	TETRACHLOROETHENE	2.0	ND
CHLOROBENZENE	2.0	ND	TRICHLOROFLUOROMETHANE	2.0	ND
CHLOROFORM	2.0	ND	1,2,3-TRICHLOROBENZENE	2.0	ND
DIBROMOCHLOROMETHANE	2.0	ND	1,2,4-TRICHLOROBENZENE	2.0	ND
1,2-DIBROMO-3-CHLOROPROPANE	2.0	ND	1,1,1-TRICHLOROETHANE	2.0	ND
1,2-DIBROMOETHANE (EDB)	2.0	ND	TRICHLOROETHENE	2.0	ND
DIBROMOMETHANE	2.0	ND	1,1,2-TRICHLOROETHANE	2.0	ND
DICHLORODIFLUOROMETHANE	2.0	ND	1,2,3-TRICHLOROPROPANE	2.0	ND
1,4-DICHLOROBENZENE	2.0	ND	1,3,5-TRIMETHYLBENZENE	2.0	13
1,2-DICHLOROBENZENE	2.0	ND	1,2,4-TRIMETHYLBENZENE+tert-BUTYLBENZENE	4.0	33
1,3-DICHLOROBENZENE	2.0	ND	TOLUENE	2.0	7.8
1,3-DICHLOROPROPANE	2.0	ND	VINYL CHLORIDE	2.0	ND
1,2-DICHLOROPROPANE	2.0	ND	o-XYLENE	2.0	ND
2,2-DICHLOROPROPANE	2.0	ND	m & p-XYLENES	4.0	28
1,1-DICHLOROETHANE	2.0	ND	METHYL-T-BUTYLETHER	2.0	ND
1,1-DICHLOROPROPENE	2.0	ND	DI-ISOPROPYLETHER	2.0	ND
cis-1,3-DICHLOROPROPENE	2.0	ND			
trans-1,3-DICHLOROPROPENE	2.0	ND			

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135991
Date Analyzed: 7/30/93
Analyzed by Modified EPA Method 8021.

Signed: Christopher J. Dul Date: 8/2/93



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Green Bay, WI 54307-2435

CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: MW-2D
Sample Desc: Groundwater
Date Collected: 7/21/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
BENZENE	25	2,700
BROMOCHLOROMETHANE	25	ND
BROMODICHLOROMETHANE	25	ND
BROMOFORM	25	ND
BROMOBENZENE	25	ND
BROMOMETHANE	25	ND
n-BUTYLBENZENE	25	43
STYRENE	25	ND
sec-BUTYLBENZENE	25	ND
CARBON TETRACHLORIDE	25	ND
CHLOROETHANE	25	ND
CHLROMETHANE	25	ND
4-CHLOROTOLUENE	25	ND
2-CHLOROTOLUENE	25	ND
CHLROBENZENE	25	ND
CHLOROFORM	25	ND
DIBROMOCHLOROMETHANE	25	ND
1,2-DIBROMO-3-CHLOROPROPANE	25	ND
1,2-DIBROMOETHANE (EDB)	25	ND
DIBROMOMETHANE	25	ND
DICHLORODIFLUOROMETHANE	25	ND
1,4-DICHLOROENZENE	25	ND
1,2-DICHLOROENZENE	25	ND
1,3-DICHLOROENZENE	25	ND
1,3-DICHLOROPROPANE	25	ND
1,2-DICHLOROPROPANE	25	ND
2,2-DICHLOROPROPANE	25	ND
1,1-DICHLOROETHANE	25	ND
1,1-DICHLOROPROPENE	25	ND
cis-1,3-DICHLOROPROPENE	25	ND
trans-1,3-DICHLOROPROPENE	25	ND

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
1,2-DICHLOROETHANE	25	ND
trans-1,2-DICHLOROETHENE	25	ND
cis-1,2-DICHLOROETHENE	25	ND
1,1-DICHLOROETHENE	25	ND
ETHYLBENZENE	25	300
HEXACHLOROBUTADIENE	25	ND
p-ISOPROPYLTOLUENE	25	70
ISOPROPYLBENZENE	25	ND
METHYLENE CHLORIDE	250	ND
NAPHTHALENE	25	150
n-PROPYLBENZENE	25	64
1,1,2,2-TETRACHLOROETHANE	25	ND
1,1,1,2-TETRACHLOROETHANE	25	ND
TETRACHLOROETHENE	25	ND
TRICHLOROFUOROMETHANE	25	ND
1,2,3-TRICHLOROENZENE	25	ND
1,2,4-TRICHLOROENZENE	25	ND
1,1,1-TRICHLOROETHANE	25	ND
TRICHLOROETHENE	25	ND
1,1,2-TRICHLOROETHANE	25	ND
1,2,3-TRICHLOROPROPANE	25	ND
1,3,5-TRIMETHYLBENZENE	25	75
1,2,4-TRIMETHYLBENZENE+tert-BUTYLBENZENE	50	270
TOLUENE	25	29
VINYL CHLORIDE	25	ND
o-XYLENE	25	ND
m & p-XYLENES	50	710
METHYL-T-BUTYLEETHER	25	ND
DI-ISOPROPYLEETHER	25	ND

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135992
Date Analyzed: 7/30/93
Analyzed by Modified EPA Method 8021.

Signed: Christopher J. J... Date: 8/2/93



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CLIENT: DAMES & MOORE
ADDRESS: 250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE, WISCONSIN 53202

Wisconsin Certification No: 405099530

Sample ID: Trip Blank 2
Sample Desc: Water
Date Collected: 7/22/93
Date Received: 7/22/93
Job #: 20255-004

ATTENTION: Kristine Casper
TELEPHONE: (414) 347-0800

VOLATILE ORGANIC WATER ANALYSIS

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
BENZENE	1.0	ND
BROMOCHLOROMETHANE	1.0	ND
BROMODICHLOROMETHANE	1.0	ND
BROMOFORM	1.0	ND
BROMOBENZENE	1.0	ND
BROMOMETHANE	1.0	ND
n-BUTYLBENZENE	1.0	ND
STYRENE	1.0	ND
sec-BUTYLBENZENE	1.0	ND
CARBON TETRACHLORIDE	1.0	ND
CHLOROETHANE	1.0	ND
CHLOROMETHANE	1.0	ND
4-CHLOROTOLUENE	1.0	ND
2-CHLOROTOLUENE	1.0	ND
CHLOROBENZENE	1.0	ND
CHLOROFORM	1.0	ND
DIBROMOCHLOROMETHANE	1.0	ND
1,2-DIBROMO-3-CHLOROPROPANE	1.0	ND
1,2-DIBROMOETHANE (EDB)	1.0	ND
DIBROMOMETHANE	1.0	ND
DICHLORODIFLUOROMETHANE	1.0	ND
1,4-DICHLOROBENZENE	1.0	ND
1,2-DICHLOROBENZENE	1.0	ND
1,3-DICHLOROBENZENE	1.0	ND
1,3-DICHLOROPROPANE	1.0	ND
1,2-DICHLOROPROPANE	1.0	ND
2,2-DICHLOROPROPANE	1.0	ND
1,1-DICHLOROETHANE	1.0	ND
1,1-DICHLOROPROPENE	1.0	ND
cis-1,3-DICHLOROPROPENE	1.0	ND
trans-1,3-DICHLOROPROPENE	1.0	ND

PARAMETERS	DETECTION LIMITS	RESULTS ug/l
1,2-DICHLOROETHANE	1.0	ND
trans-1,2-DICHLOROETHENE	1.0	ND
cis-1,2-DICHLOROETHENE	1.0	ND
1,1-DICHLOROETHENE	1.0	ND
ETHYLBENZENE	1.0	ND
HEXACHLOROBUTADIENE	1.0	ND
p-ISOPROPYLTOLUENE	1.0	ND
ISOPROPYLBENZENE	1.0	ND
METHYLENE CHLORIDE	10	ND
NAPHTHALENE	1.0	ND
n-PROPYLBENZENE	1.0	ND
1,1,2,2-TETRACHLOROETHANE	1.0	ND
1,1,1,2-TETRACHLOROETHANE	1.0	ND
TETRACHLOROETHENE	1.0	ND
TRICHLOROFLUOROMETHANE	1.0	ND
1,2,3-TRICHLOROBENZENE	1.0	ND
1,2,4-TRICHLOROBENZENE	1.0	ND
1,1,1-TRICHLOROETHANE	1.0	ND
TRICHLOROETHENE	1.0	ND
1,1,2-TRICHLOROETHANE	1.0	ND
1,2,3-TRICHLOROPROPANE	1.0	ND
1,3,5-TRIMETHYLBENZENE	1.0	ND
1,2,4-TRIMETHYLBENZENE+tert-BUTYLBENZENE	2.0	ND
TOLUENE	1.0	ND
VINYL CHLORIDE	1.0	ND
o-XYLENE	1.0	ND
m & p-XYLENES	2.0	ND
METHYL-T-BUTYLEETHER	1.0	ND
DI-ISOPROPYLEETHER	1.0	ND

ND = Not Detected

COMMENTS: Lab Sample ID: 9307162-135993
Date Analyzed: 7/29/93
Analyzed by Modified EPA Method 8021.

Signed: Christopher J. Juch Date: 8/2/93



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VOLATILE SURROGATE RECOVERY

CUSTOMER NAME: Dames & Moore

PROJECT: 20255-004

DATE RECEIVED: 7/20/93

BATCH #: 9307162

DATE RUN: 7/26,29,30/93

LAB SAMPLE #	SURROGATE 1 % RECOVERY	SURROGATE 2 % RECOVERY
135972	105.0	109.0
135973	89.3	89.3
135974	82.6	83.8
135975	86.4	89.1
135976	86.9	88.6
135977	88.4	88.3
135978	88.4	86.9
135979	85.7	88.5
135980	95.1	97.6
135981	82.6	85.6
135982	82.9	86.4
135983	89.6	96.5

SURROGATE 1 = 1-CHLORO-2-FLUOROBENZENE
SURROGATE 2 = ALPHA,ALPHA,ALPHA-TRIFLUOROTOLUENE

Reviewed by:

Date:

8/3/93



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VOLATILE SURROGATE RECOVERY

CUSTOMER NAME: Dames & Moore

PROJECT: 20255-004

DATE RECEIVED: 7/20/93

BATCH #: 9307162

DATE RUN: 7/26,29,30/93

LAB SAMPLE #	SURROGATE 1 % RECOVERY	SURROGATE 2 % RECOVERY
135984	82.3	80.2
135985	87.2	87.8
135986	83.3	86.6
135987	89.2	88.2
135988	80.6	71.7
135989	89.2	89.9
135990	84.7	84.7
135991	76.2	64.1
135992	85.3	85.3
135993	91.8	94.9
	0.0	0.0
	0.0	0.0

SURROGATE 1 = 1-CHLORO-2-FLUOROBENZENE
SURROGATE 2 = ALPHA,ALPHA,ALPHA-TRIFLUOROTOLUENE

Reviewed by:

Christopher J. Zoh

Date:

8/3/93



ENVIRONMENTAL LABORATORY

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VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

CUSTOMER NAME: Dames & Moore

PROJECT: 20255-004

DATE RECEIVED: 7/20/93

BATCH NUMBER: 9307162

DATE RUN: 7/28/93

SAMPLE SPIKED: 135975

COMPOUND	SPIKE ADDED (ug/L)	MS CONCENTRATION (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS % RECOVERY
1,1-DICHLOROETHENE	25	39.0	0.0	156
BENZENE	25	27.9	0.0	112
TRICHLOROETHENE	25	28.9	0.0	115
TOLUENE	25	24.2	0.0	97
CHLOROBENZENE	25	23.4	0.0	94
ETHYLBENZENE	25	23.2	0.0	93
p-XYLENE	25	23.2	0.0	93
o-XYLENE	25	22.7	0.0	91
BROMOBENZENE	25	22.4	0.0	90
2-CHLOROTOLUENE	25	21.7	0.0	87
124-TRIMETHYLBENZENE	25	26.5	0.0	106
13-DICHLOROBENZENE	25	22.1	0.0	88
sec-BUTYLBENZENE	25	22.6	0.0	90
n-BUTYLBENZENE	25	22.1	0.0	88
124-TRICHLOROBENZENE	25	25.6	0.0	102

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % RECOVERY	% RPD
1,1-DICHLOROETHENE	25	41.0	164	5.0
BENZENE	25	29.7	119	6.3
TRICHLOROETHENE	25	30.5	122	5.4
TOLUENE	25	25.8	103	6.2
CHLOROBENZENE	25	25.1	100	7.0
ETHYLBENZENE	25	23.3	93	0.3
p-XYLENE	25	23.3	93	0.4
o-XYLENE	25	22.8	91	0.6
BROMOBENZENE	25	22.7	91	1.2
2-CHLOROTOLUENE	25	21.8	87	0.3
124-TRIMETHYLBENZENE	25	26.3	105	0.8
13-DICHLOROBENZENE	25	22.2	89	0.2
sec-BUTYLBENZENE	25	22.4	89	1.0
n-BUTYLBENZENE	25	21.7	87	1.8
124-TRICHLOROBENZENE	25	25.3	101	1.2

Reviewed by: Chris Dyer

Date: 8/3/93



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GC/MS SEMIVOLATILE ORGANIC ANALYSIS

Client: Dames & Moore	Project Name/Desc.:
Address: 250 East Wisconsin Ave, Suite 1500 Milwaukee, WI 53202	Project Number: 20255-004
Phone: (414) 347-0800	Batch Number: 9307162
FAX: (414) 347-0288	COC Number: 406430
Contact: Kristine Casper	Case No.: DAMES
	SDG No.: FB1

SAMPLE SUMMARY

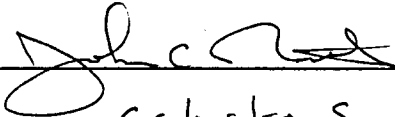
Client Sample No.	EPA Sample No.	Ortek Lab Sample ID
FB-1	FB1	135981
MW-1	MW1	135990
MW-1DD	MW1DD	135989
MW-2D	MW2D	135992
MW-2DD	MW2DD	135985
MW-2S	MW2S	135988
MW-2SA	MW2SA	135991
MW-3D	MW3D	135987
MW-3DA	MW3DA	135984
MW-3DD	MW3DD	135986
MW-3S	MW3S	135983
MW-4	MW4	135975
MW-5	MW5	135979
MW-9	MW9	135978
MW-10D	MW10D	135976
MW-10S	MW10S	135977
MW-11D	MW11D	135973
MW-11DD	MW11DD	135974
MW-11S	MW11S	135972

COMMENTS: SEMIVOLATILE ORGANIC ANALYSIS PERFORMED BY MODIFIED EPA METHOD 8270 ON A DB-5MS CAPILLARY COLUMN

- 1.) The instrument ID for Semivolatile Organic Analysis is HP-D. The blank associated with the samples is SBLK07.
- 2.) The surrogate recoveries for EPA Sample No.'s MW3D, MW3DA, and MW3DD were below QC limits. No sample remained for reextraction. This could be a matrix effect as all three samples were of similar identification designation (MW-3D, MW-3DA and MW-3DD).

"Q" COLUMN QUALIFIERS:

- U - Compound analyzed for but not detected
 - B - Indicates the analyte is found in the associated method blank
 - J - Estimated value, concentration of analyte below quantitation limit
 - E - Compound exceeds calibration range, but did not saturate the detector; actual concentrations could be higher than reported
 - D - Compound identified in the analysis at a secondary dilution
 - N - Indicates presumptive evidence of a compound (identified based on mass spectral library search)
-

Signed:  Name: John C. Rather
Title: GC/MS/EC Supervisor Date: 8/2/93

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1DD

Lab Name: ORTEK Contract: _____
 Lab Code: ORTEK Case No.: DAMES SAS No.: _____ SDG No.: FB1
 Matrix: (soil/water) WATER Lab Sample ID: 135989
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: >D7S06
 Level: (low/med) LOW Date Received: 07/22/93
 % Moisture: not dec. dec. Date Extracted: 07/26/93
 Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 07/28/93
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
91-20-3	Naphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
132-64-9	Dibenzofuran	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW2D

Lab Name: ORTEK Contract: _____

Lab Code: ORTEK Case No.: DAMES SAS No.: _____ SDG No.: FB1

Matrix: (soil/water) WATER Lab Sample ID: 135992

Sample wt/vol: 1000 (g/ml) ML Lab File ID: >D7S09

Level: (low/med) LOW Date Received: 07/22/93

Moisture: not dec. dec. Date Extracted: 07/26/93

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 07/28/93

RPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
91-20-3	Naphthalene	56	
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	1	J
132-64-9	Dibenzofuran	10	U
86-73-7	Fluorene	1	J
85-01-8	Phenanthrene	1	J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW2S

Lab Name: ORTEK Contract: _____

Lab Code: ORTEK Case No.: DAMES SAS No.: _____ SDG No.: FB1

Matrix: (soil/water) WATER Lab Sample ID: 135988

Sample wt/vol: 1000 (g/ml) ML Lab File ID: >D7S05

Level: (low/med) LOW Date Received: 07/22/93

Moisture: not dec. dec. Date Extracted: 07/26/93

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 07/28/93

HPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
91-20-3	Naphthalene	13	
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
132-64-9	Dibenzofuran	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5

Lab Name: ORTEK	Contract:	
Lab Code: ORTEK	Case No.: DAMES	SAS No.:
		SDG No.: FB1
Matrix: (soil/water) WATER		Lab Sample ID: 135979
Sample wt/vol: 1000 (g/ml) ML		Lab File ID: >D7R12
Level: (low/med) LOW		Date Received: 07/22/93
% Moisture: not dec. dec.		Date Extracted: 07/26/93
Extraction: (Sepf/Cont/Sonc) SEPF		Date Analyzed: 07/28/93
SPC Cleanup: (Y/N) N pH:		Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	Q
91-20-3	Naphthalene	10 U
208-96-8	Acenaphthylene	10 U
83-32-9	Acenaphthene	10 U
132-64-9	Dibenzofuran	10 U
86-73-7	Fluorene	10 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
206-44-0	Fluoranthene	10 U
129-00-0	Pyrene	10 U
56-55-3	Benzo(a)anthracene	10 U
218-01-9	Chrysene	10 U
205-99-2	Benzo(b)fluoranthene	10 U
207-08-9	Benzo(k)fluoranthene	10 U
50-32-8	Benzo(a)pyrene	10 U
193-39-5	Indeno(1,2,3-cd)pyrene	10 U
53-70-3	Dibenz(a,h)anthracene	10 U
191-24-2	Benzo(g,h,i)perylene	10 U



ENVIRONMENTAL LABORATORY
1609 Western Avenue

P.O. Box 12435

(414) 498-2222
(800) 236-4067
FAX (414) 498-4067
Green Bay, WI 54307-2435

- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135972
Your sample ID: MW 11S
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/20/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135972	Barium	190	UG/L	07/26/93
	Lead	<	2.0 UG/L	07/27/93

Signed Earl S. Marshall

Date 8/2/93

Signed _____

Date _____



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- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135973
Your sample ID: MW 11D
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/20/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135973	Barium	110	UG/L	07/26/93
	Lead	<	UG/L	07/27/93

Signed *[Signature]*

Date 8/2/93

Signed _____

Date _____



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- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135974
Your sample ID: MW 11DD
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/20/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135974	Barium	160	UG/L	07/26/93
	Lead	<	2.0 UG/L	07/27/93

Signed Earl S. Khumall Date 8/2/93

Signed _____ Date _____



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- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135975
Your sample ID: MW 4
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/20/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135975	Barium	130	UG/L	07/26/93
	Lead	<	2.0 UG/L	07/28/93

Signed Earl D. Schmidt

Date 8/2/93

Signed _____

Date _____



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- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135976
Your sample ID: MW 10D
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/21/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135976	Barium	38	UG/L	07/26/93
	Lead	<	2.0 UG/L	07/28/93

Signed Earl G. Kinnell

Date 8/2/93

Signed _____

Date _____



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- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135977
Your sample ID: MW 10S
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/21/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135977	Barium	130	UG/L	07/26/93
	Lead	7.7	UG/L	07/28/93

Signed *E. J. Schmoll*

Date 8/2/93

Signed _____

Date _____



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- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135978
Your sample ID: MW 9
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/21/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135978	Barium	54	UG/L	07/26/93
	Lead	<	2.0 UG/L	07/28/93

Signed Earl D. Howard

Date 8/2/93

Signed _____

Date _____



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- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135979
Your sample ID: MW 5
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/21/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135979	Barium	190	UG/L	07/26/93
	Lead	<	2.0 UG/L	07/28/93

Signed Earl G. Schmidt

Date 8/2/93

Signed _____

Date _____



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- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135981
Your sample ID: FB-1
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/21/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135981	Barium	<	10 UG/L	07/26/93
	Lead	<	2.0 UG/L	07/28/93

Signed Carl S. Kinnell

Date 8/2/93

Signed _____

Date _____



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- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135982
Your sample ID: FB-2
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/21/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135982	Barium	<	10 UG/L	07/26/93
	Lead	<	2.0 UG/L	07/28/93

Signed *Earl G. Howard*

Date 8/2/93

Signed _____

Date _____



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- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135983
Your sample ID: MW-3S
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/21/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135983	Barium	230	UG/L	07/26/93
	Lead	13	UG/L	07/28/93

Signed Earl G. Fennell

Date 8/2/93

Signed _____

Date _____



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(800) 236-4067

ENVIRONMENTAL LABORATORY

FAX (414) 498-4067

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Green Bay, WI 54307-2435

- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135984
Your sample ID: 3DA
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/21/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135984	Barium	100	UG/L	07/26/93
	Lead	<	UG/L	07/28/93

Signed Earl G. Johnson

Date 8/2/93

Signed _____

Date _____



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- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135985
Your sample ID: MW-2DD
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/21/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135985	Barium	130	UG/L	07/26/93
	Lead	5.0	UG/L	07/28/93

Signed *[Signature]*

Date 8/2/93

Signed _____

Date _____



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- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135986
Your sample ID: MW-3DD
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/21/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135986	Barium	78	UG/L	07/26/93
	Lead	2.8	UG/L	07/28/93

Signed Earl J. Howard

Date 8/2/93

Signed _____

Date _____



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- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135987
Your sample ID: MW-3D
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/21/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135987	Barium	110	UG/L	07/26/93
	Lead	2.5	UG/L	07/28/93

Signed Carl S. Russell

Date 8/2/93

Signed _____

Date _____



ENVIRONMENTAL LABORATORY
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Green Bay, WI 54307-2435

- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135988
Your sample ID: MW-2S
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/21/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135988	Barium	160	UG/L	07/26/93
	Lead	<	2.0 UG/L	07/28/93

Signed *Earl D. Howell*

Date 8/2/93

Signed _____

Date _____



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Green Bay, WI 54307-2435

- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135989
Your sample ID: MW-1DD
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/21/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135989	Barium	120	UG/L	07/26/93
	Lead	<	2.0 UG/L	07/28/93

Signed Carl J. Arnold

Date 8/2/93

Signed _____

Date _____



ENVIRONMENTAL LABORATORY
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P.O. Box 12435

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(800) 236-4067
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Green Bay, WI 54307-2435

- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135990
Your sample ID: MW-1
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/21/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result Units	Analysis Date
135990	Barium	190 UG/L	07/26/93
	Lead	7.1 UG/L	07/28/93

Signed Earl G. Knoll

Date 8/2/93

Signed _____

Date _____



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Green Bay, WI 54307-2435

- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135991
Your sample ID: MW-2SA
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/21/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result	Units	Analysis Date
135991	Barium	160	UG/L	07/26/93
	Lead	2.4	UG/L	07/28/93

Signed Earl S. Schmidt

Date 8/2/93

Signed _____

Date _____



ENVIRONMENTAL LABORATORY
1609 Western Avenue

P.O. Box 12435

(414) 498-2222
(800) 236-4067
FAX (414) 498-4067
Green Bay, WI 54307-2435

- SAMPLE ANALYSIS REPORT -

To: DAMES & MOORE
250 E WISCONSIN AVE
SUITE 1500
MILWAUKEE WI 53202

Attn: KRISTINE CASPER

Batch ID : 9307162
Our lab # : 135992
Your sample ID: MW-2D
Sample Matrix : GRNDWATER

Report Date: 08/02/93

COLLECTION INFORMATION

Date/Time/By: 07/21/93 K K
Location : 20255-004/BORGERDING EST.

Lab#	Test	Result Units	Analysis Date
135992	Barium	150 UG/L	07/26/93
	Lead	2.2 UG/L	07/28/93

Signed *Ed G. Stewart*

Date 8/2/93

Signed _____

Date _____

DAMES & MOORE

250 East Wisconsin Ave, Suite 1500
 Milwaukee, Wisconsin 53202
 (414) 347-0800 FAX: (414) 347-0288

Lab Octek
 Chain of Custody Seal # _____ # _____

Turnaround Time

- Rush (preapproved by Lab)
 Normal

PROJECT NAME: _____

PROJECT #: 20255-004

Send Results To:
 PROJECT MANAGER: Kristine Casper

BILL TO: Borgerding Estate

SHIPPING DETAILS:
 Method of Shipment UPS
 Contents Temperature 0.2°C
 Comments One Date
let #

LAB USE ONLY	DATE	SAMPLE TIME	CONTAINERS	No.	SAMPLE ID	SAMPLE TYPE	ANALYSIS REQUESTED				REMARKS/PRESERVATIVES	
							8021(WT)	8270(PAH)	Pb/Ba			
135972	7/20/03		40ml vial	3	MW-115	Ground water	X				HCl	
			1 qt amber	1	MW-115			X				
			1 500ml plastic	1	MW-115				X		HNO ₃	
135973			40ml vial	3	MW-11D		X				HCl	
			1 qt amber	1				X			HNO ₃	
			1 500ml plastic	1					X		HNO ₃	
135974			40ml vial	3	MW-11DD		X				HCl	
			1 qt amber	1				X			HCl	
			1 1/2 pils	1					X		HNO ₃	
135975			40ml vial	3	MW-7		X					
			1 qt amber	1				X				
			1 500ml plastic	1					X			
SUBTOTAL												TOTAL

REF# L-24
 Date Rec'd 11/20/03
 Batch # 38-93
 9307162

CHAIN OF CUSTODY RECORD

SAMPLER: (SIGNATURE) Phil Hoffman DATE 7/21/03

COMMENTS

RELINQUISHED BY: (SIGNATURE) <u>Phil Hoffman</u>	DATE/TIME <u>7/21/03</u>	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE) <u>Phil Hoffman</u>
		DATE/TIME <u>7/21/03</u>

DAMES & MOORE

250 East Wisconsin Ave, Suite 1500
 Milwaukee, Wisconsin 53202
 (414) 347-0800 FAX:(414) 347-0288

Lab Ortek

Chain of Custody Seal # _____ # _____

29/10 EOC 20645L

Turnaround Time

Rush (preapproved by Lab)
 Normal

PROJECT NAME: _____

PROJECT #: 20255-004

Send Results To:
 PROJECT MANAGER: Kristine Casper

BILL TO: Borgarding Estate

SHIPPING DETAILS:
 Method of Shipment UPS
 Contents Temperature 0.20
 Comments _____

8021 (W.I.)
 8270 (PAH)
 Pb/Ba

REF L-2 4/6
 11(20)
 MATCH#
 9307162
 Due Date 7/29

LAB USE ONLY	DATE	SAMPLE TIME	CONTAINERS	No.	SAMPLE ID	SAMPLE TYPE	ANALYSIS REQUESTED				REMARKS/PRESERVATIVES	
135976	7/21/93		30ml vials	3	MW-10D	Water	X					HCL 1-VIAL BROKEN IN SHIP
			1 liter amber	1	"			X				
			60 500ml filter plastic	1	"				X			
135977			40ml vials	3	MW-10S		X					HNO3 HCL
			1 liter amber	1				X				
			60 500ml filter plastic	1					X			HNO3
135978			40ml vials	3	MW-9		X					HCL
			1 liter amber	1				X				
			60 500ml filter plastic	1					X			HNO3
135979			40ml vials	3	MW-5		X					HCL
			1 liter amber	1				X				
			60 500ml filter plastic	1					X			HNO3
SUBTOTAL												TOTAL

CHAIN OF CUSTODY RECORD

SAMPLER: (SIGNATURE) [Signature] DATE 7/21/93

COMMENTS

RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u>	DATE/TIME <u>7/21/93</u>	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY: BY (SIGNATURE) <u>[Signature]</u>
		DATE/TIME <u>7/21/93 10:30</u>

DAMES & MOORE

250 East Wisconsin Ave, Suite 1500
 Milwaukee, Wisconsin 53202
 (414) 347-0800 FAX:(414) 347-0288

Lab Ortek
 Chain of Custody Seal # _____ # _____

49 B

406430

Turnaround Time

Rush (preapproved by Lab)
 Normal

PROJECT NAME: _____

PROJECT #: 20255-004

Send Results To:
 PROJECT MANAGER: Kristine Casper

BILL TO: Borgeding Estate

SHIPPING DETAILS:
 Method of Shipment UPS
 Contents Temperature _____ C
 Comments 0.6

8021 (WT)
 8270 (PAH)
 Pb/Ba
 Batch #
 9307162

LAB USE ONLY	DATE	SAMPLE TIME	CONTAINERS	No.	SAMPLE ID	SAMPLE TYPE	ANALYSIS REQUESTED				REMARKS/PRESERVATIVES	
135980	7/21/93		40ml vial	3	FB-1	Water	X					HCl
981			1 qt ambags	1				X				
			1 500ml	1					Y			HNO ₃
			1 100ml	1								HCl
135981	7/21/93		40ml vial	3	FB-2		X					HNO ₃
982			1 qt ambags	1								HCl
			1 500ml	1					Y			HNO ₃
			1 100ml	1								HCl
135982	7/21/93		40ml vial	3	MW-35	Ground Wtr	X					HCl
983			1 qt ambags	1				Y				
			1 500ml	1					Y			HNO ₃
			1 100ml	1								HCl
135983	7/21/93		40ml vial	3	MW-3DA		X					HCl
984			1 qt ambags	1				X				
			1 500ml	1						Y		
			1 100ml	1								
SUBTOTAL												TOTAL

CHAIN OF CUSTODY RECORD

SAMPLER: (SIGNATURE) [Signature] DATE 7/21/93

COMMENTS

Due Date 8/17/93
 L2 (11-(202))
 49

RELINQUISHED BY: (SIGNATURE) [Signature] DATE/TIME 7/21/93 RECEIVED BY: (SIGNATURE)

RELINQUISHED BY: (SIGNATURE) DATE/TIME RECEIVED BY: (SIGNATURE)

RELINQUISHED BY: (SIGNATURE) DATE/TIME RECEIVED BY: (SIGNATURE)

RELINQUISHED BY: (SIGNATURE) DATE/TIME RECEIVED FOR LABORATORY: (SIGNATURE) DATE/TIME 7/21/93 10:30

DAMES & MOORE

250 East Wisconsin Ave, Suite 1500

Milwaukee, Wisconsin 53202

(414) 347-0800 FAX:(414) 347-0288

40643 *2/2/93* *4/6* *5064*

Lab Ortek

Turnaround Time

Chain of Custody Seal # _____ # _____

- Rush (preapproved by Lab)
 Normal

PROJECT NAME: _____

PROJECT #: 20255-004

Send Results To:

PROJECT MANAGER: Kristine Casper

BILL TO: Borgerding Estate

SHIPPING DETAILS:
 Method of Shipment _____
 Contents Temperature _____ C
 Comments O.B

80AL (W.I.)
 8270 (PAH)
 Pb+Ba

BATCH#
 9307162

LAB USE ONLY	DATE	SAMPLE TIME	CONTAINERS	No.	SAMPLE ID	SAMPLE TYPE	ANALYSIS REQUESTED				REMARKS/PRESERVATIVES		
135984	7/21/93		40ml vial	3	MW-2DD	Ground Wtr	X					HCl	
985			1 ^{50ml} 40ml pls	1					X			HNO3	
			1 qt anlyls	1				X	X				
135985			40ml vial	3	MW-3DD		X					HCl	
986			1 ^{50ml} 40ml pls	1					X			HNO3	
			1 qt anlyls	1				X					
135986			40ml vial	3	MW-3D		X					HCl	
987			11tr pls	1					X			HNO3	
			1 qt anlyls	1				X					
135987			40ml vial	3	MW-2S		X					HCl	
988			11tr pls	1					X			HNO3	
			1 qt anlyls	1				X					
SUBTOTAL													TOTAL

CHAIN OF CUSTODY RECORD

SAMPLER: (SIGNATURE) Phil Hoffmann DATE 7/21/93

COMMENTS

DUE 8/1/93
 L2 11 (262)
 49

RELINQUISHED BY: (SIGNATURE) <u>Phil Hoffmann</u>	DATE/TIME <u>7/21/93</u>	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY: (SIGNATURE) <u>[Signature]</u>
		DATE/TIME <u>7/21/93 10:50</u>

DAMES & MOORE

250 East Wisconsin Ave, Suite 1500
 Milwaukee, Wisconsin 53202
 (414) 347-0800 FAX:(414) 347-0288

Batch# 9307162 6 of 6 COC 406430

Lab Ortek
 Chain of Custody Seal # 406430 #

Turnaround Time
 Rush (preapproved by Lab)
 Normal

PROJECT NAME: _____
 PROJECT #: 20255-004
 Send Results To:
 PROJECT MANAGER: Kristine Casper
 BILL TO: Borgerding Estate

SHIPPING DETAILS:
 Method of Shipment URS
 Contents Temperature 0.3 C
 Comments _____

(VOC) 8021 (WJ)
 8270 (PAH)
 Pb/Ba
 Imp. 0.3°C

LAB USE ONLY	DATE	SAMPLE TIME	CONTAINERS	No.	SAMPLE ID	SAMPLE TYPE	ANALYSIS REQUESTED				REMARKS/PRESERVATIVES	
135988	7/21/93		40ml vial	3	MW-1DD	Ground Wtr	X					HCl
989			60 500ml 1 1/2 pl	1					X			HNO ₃
			1 qt amber	1				X				
135989			40ml vial	3	MW-1		X					HCl
990			60 500ml 1 1/2 pl	1					X			HNO ₃
			1 qt amber	1				X				
135990			40ml vial	3	MW-2SA		X					HCl
991			60 500ml 1 1/2 pl	1					X			HNO ₃
			1 qt amber	1				X				
135991			40ml vial	3	MW-2D		X					HCl
992			60 500ml 1 1/2 pl	1					X			HNO ₃
			1 qt amber	1				X				
SUBTOTAL												TOTAL

CHAIN OF CUSTODY RECORD
 SAMPLER: (SIGNATURE) [Signature]
 DATE 7/21/93

COMMENTS Trip blank # 2
not 7/22/93

DUE DATE 8/1/93

RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u>	DATE/TIME <u>7/21/93</u>	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	<u>L2</u>
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	<u>4Q 11(202)</u>
		<u>[Signature]</u>	<u>7/21/93</u>

