



THE MEMPHIS DEPOT TENNESSEE

ADMINISTRATIVE RECORD COVER SHEET

AR File Number 270



File: 541.460.1)
C.G.

270

STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
MEMPHIS ENVIRONMENTAL FIELD OFFICE
SUITE E-645, PERIMETER PARK
2510 MT. MORIAH
MEMPHIS, TENNESSEE 38115-1520

270 1

December 2, 1997

Commander
Defense Distribution Depot Memphis
ATTN.: DDSP-FE (Mr. Glenn Kaden)
2163 Airways Blvd.
Memphis, Tennessee 38114-5210

RE: Results of TDSF split samples at Defense Depot Memphis, Tennessee
TDEC/DSF #79-736, cc 82

Dear Mr. Kaden:

The Tennessee Division of Superfund, Memphis Field Office (MFO), on behalf of the Tennessee Department of Environment and Conservation (TDEC/DSF), collected three split samples at DDMT on 9/23 & 9/25/97. Results from these samples are enclosed for your review. Please transmit these results to the appropriate person(s) or contractor for inclusion in future reports, including the Final Remedial Investigation/Feasibility Study report.

The following list provides the TDEC/DSF sample number and date collected for these samples.

SAMPLE ID DDMT LOCATION DATE COLLECTED MATRIX

DD-GW-09	MW-46	9/23/97	groundwater
DD-GW-10	MW-38	9/25/97	groundwater
DD-SL-08	G(3.5)	9/25/97	soil

Should you have any questions concerning these results please don't hesitate to call me at (901) 368-7957.

Very truly yours,



Terry R. Templeton, P.G.
Project Manager
TDEC/DSF-MFO

Enclosure

- c: TDEC/DSF, NCO - file (with enclosure)
TDEC/DSF, MFO - file (without enclosure-originals in file)
Ramon Torres (with enclosure)
United States Environmental Protection Agency
Region 4, Waste Management Division
100 Alabama Street, SW
Atlanta, GA 30303

Project/Site No.: 79-736
 Project Name: DDMT
 Description: G(3,5)
 Station No.: DD-SL-08
 Collected: 09/25/97 14:05:00 By TRT
 County: 79

Lab Number: 9709239-02D
 Matrix: SOIL
 Received: 09/26/97 16:00:00 By RLM
 Sampling Agency: HWM 83 MFO
 Priority: 10-24-97 270 3

TEST	RESULT	UNITS	LIMIT	ANALYZED	BY	METHOD
B/N/A EXTR+PESTS,PCBS-SOIL						MS+ECD
BUTYL BENZYL PHTHALATE	U	PPB	180	10/29/97	MAC	
BIS(2-ETHYLHEXYL)PHTHALATE	J 113	PPB	180	10/29/97	MAC	
DI-n-BUTYL PHTHALATE	U	PPB	180	10/29/97	MAC	
DI-n-OCTYL PHTHALATE	U	PPB	450	10/29/97	MAC	
DIETHYL PHTHALATE	U	PPB	89	10/29/97	MAC	
DIMETHYL PHTHALATE	U	PPB	89	10/29/97	MAC	
n-NITROSODIMETHYLAMINE	U	PPB	450	10/29/97	MAC	
n-NITROSODIPHENYLAMINE	U	PPB	180	10/29/97	MAC	
n-NITROSO-di-n-PROPYLAMINE	U	PPB	180	10/29/97	MAC	
ISOPHORONE	U	PPB	89	10/29/97	MAC	
NITROBENZENE	U	PPB	180	10/29/97	MAC	
2,4-DINITROTOLUENE	U	PPB	450	10/29/97	MAC	
2,6-DINITROTOLUENE	U	PPB	450	10/29/97	MAC	
ACENAPHTHENE	U	PPB	89	10/29/97	MAC	
ACENAPHTHYLENE	U	PPB	89	10/29/97	MAC	
ANTHRACENE	U	PPB	89	10/29/97	MAC	
BENZO(a)ANTHRACENE	U	PPB	89	10/29/97	MAC	
BENZO(a)PYRENE	U	PPB	89	10/29/97	MAC	
BENZO(b)FLUORANTHENE	U	PPB	89	10/29/97	MAC	
BENZO(g,h)PERYLENE	U	PPB	180	10/29/97	MAC	
BENZO(k)FLUORANTHENE	U	PPB	89	10/29/97	MAC	
DIBENZO(a,b)ANTHRACENE	U	PPB	450	10/29/97	MAC	
FLUORANTHENE	U	PPB	45	10/29/97	MAC	
FLUORENE	U	PPB	45	10/29/97	MAC	
INDENO(1,2,3-cd)PYRENE	U	PPB	450	10/29/97	MAC	
NAPHTHALENE	U	PPB	45	10/29/97	MAC	
PHENANTHRENE	U	PPB	45	10/29/97	MAC	
PYRENE	U	PPB	45	10/29/97	MAC	
CHRYSENE	U	PPB	89	10/29/97	MAC	
BIS(2-CHLOROETHYL)ETHER	U	PPB	180	10/29/97	MAC	
BIS(2-CHLOROETHOXY)METHANE	U	PPB	180	10/29/97	MAC	
BIS(2-CHLOROISOPROPYL)ETHER	U	PPB	180	10/29/97	MAC	
4-BROMOPHENYLPHENYL ETHER	U	PPB	180	10/29/97	MAC	
4-CHLOROPHENYLPHENYL ETHER	U	PPB	180	10/29/97	MAC	
HEXACHLOROCYCLOPENTADIENE	U	PPB	450	10/29/97	MAC	
HEXACHLOROBUTADIENE	U	PPB	180	10/29/97	MAC	
HEXACHLOROBENZENE	U	PPB	180	10/29/97	MAC	
HEXACHLOROETHANE	U	PPB	180	10/29/97	MAC	
1,2,4-TRICHLOROBENZENE	U	PPB	180	10/29/97	MAC	
2-CHLORONAPHTHALENE	U	PPB	89	10/29/97	MAC	
4-CHLORO-3-METHYLPHENOL	U	PPB	180	10/29/97	MAC	
2-CHLOROPHENOL	U	PPB	180	10/29/97	MAC	
2,4-DICHLOROPHENOL	U	PPB	180	10/29/97	MAC	
2,4-DIMETHYLPHENOL	U	PPB	180	10/29/97	MAC	
2,4-DINITROPHENOL	U	PPB	890	10/29/97	MAC	
2-METHYL-4,6-DINITROPHENOL	U	PPB	450	10/29/97	MAC	
2-NITROPHENOL	U	PPB	450	10/29/97	MAC	
4-NITROPHENOL	U	PPB	450	10/29/97	MAC	
PENTACHLOROPHENOL	U	PPB	450	10/29/97	MAC	
PHENOL	U	PPB	180	10/29/97	MAC	
2,4,6-TRICHLOROPHENOL	U	PPB	180	10/29/97	MAC	
2,4,5-TRICHLOROPHENOL	U	PPB	180	10/29/97	MAC	
O-CRESOL	U	PPB	180	10/29/97	MAC	
M- & P-CRESOL	U	PPB	180	10/29/97	MAC	
2-METHYLNAPHTHALENE	U	PPB	89	10/29/97	MAC	
BENZOIC ACID	U	PPB	890	10/29/97	MAC	
BENZYL ALCOHOL	U	PPB	180	10/29/97	MAC	
4-CHLOROANILINE	U	PPB	180	10/29/97	MAC	
DIBENZOFURAN	U	PPB	45	10/29/97	MAC	
3,3-DICHLOROBENZIDINE	U	PPB	450	10/29/97	MAC	
2-NITROANILINE	U	PPB	450	10/29/97	MAC	
3-NITROANILINE	U	PPB	450	10/29/97	MAC	
4-NITROANILINE	U	PPB	450	10/29/97	MAC	
HEXACHLOROBENZENE	U	PPB	0.86	10/29/97	MAC	
ALDRIN	U	PPB	1.2	10/29/97	MAC	
alpha-BHC	U	PPB	2.1	10/29/97	MAC	
beta-BHC	U	PPB	3.1	10/29/97	MAC	
delta-BHC	U	PPB	3.1	10/29/97	MAC	
gamma-BHC (LINDANE)	U	PPB	1.2	10/29/97	MAC	
alpha-CHLORDANE	U	PPB	1.6	10/29/97	MAC	
gamma-CHLORDANE	U	PPB	1.1	10/29/97	MAC	
TECHNICAL CHLORDANE	U	PPB	60	10/29/97	MAC	
p,p-DDD	U	PPB	2.1	10/29/97	MAC	

Project/Site No.: 79-736
 Project Name: DDMT
 Description: G(3,5)
 Station No.: DD-SL-08
 Collected: 09/25/97 14:05:00 By TRT
 County: 79

Lab Number: 9709239-02D
 Matrix: SOIL
 Received: 09/26/97 16:00:00 By RLM
 Sampling Agency: HWM 83 MFO
 Priority: 10_24_97 270 4

TEST	RESULT	*UNITS	LIMIT	ANALYZED	BY	METHOD
B/N/A EXTR+PESTS, PCBS-SOIL						MS+ECD
p,p-DDE	U	PPB	1.9	10/29/97	MAC	
p,p-DDT	U	PPB	2.0	10/29/97	MAC	
DIELDRIN	16.7	PPB	-	10/29/97	MAC	
ENDOSULFAN I	U	PPB	1.9	10/29/97	MAC	
ENDOSULFAN II	U	PPB	2.2	10/29/97	MAC	
ENDOSULFAN SULFATE	U	PPB	2.2	10/29/97	MAC	
ENDRIN	U	PPB	2.2	10/29/97	MAC	
ENDRIN ALDEHYDE	U	PPB	1.8	10/29/97	MAC	
ENDRIN KETONE	U	PPB	2.2	10/29/97	MAC	
HEPTACHLOR	U	PPB	1.4	10/29/97	MAC	
HEPTACHLOR EPOXIDE	U	PPB	1.3	10/29/97	MAC	
TOXAPHENE	U	PPB	250	10/29/97	MAC	
METHOXYCHLOR	U	PPB	8.3	10/29/97	MAC	
PCB 1014/1242	U	PPB	270	10/29/97	MAC	
PCB 1221	U	PPB	290	10/29/97	MAC	
PCB 1232	U	PPB	330	10/29/97	MAC	
PCB 1248	U	PPB	230	10/29/97	MAC	
PCB 1254	U	PPB	150	10/29/97	MAC	
PCB 1260	U	PPB	100	10/29/97	MAC	
PCB 1262	U	PPB	100	10/29/97	MAC	

*-Water, uG/L; Sediment, uG/kg

Printed: November 6, 1997

Project/Site No.: 79-736
 Project Name: DDMT
 Site Description: G(3,5)
 Station No.: DD-SL-08
 Collected: 09/25/97 14:05:00 By TRT
 County: 79

Lab Number: 9709239-02C 270 5
 Matrix: SOIL
 Received: 09/26/97 16:00:00 By RLM
 Sampling Agency: HWM 83 MFO
 Priority: 10_24_97

TEST	RESULT	*UNITS	LIMIT	ANALYZED	BY	METHOD
VOLATILES-TAL SEDIMENTS						B260A
ACETONE	U	PPB	25	09/30/97	JWB	
BENZENE	U	PPB	2.5	09/30/97	JWB	
BROMODICHLOROMETHANE	U	PPB	2.5	09/30/97	JWB	
BROMOFORM	U	PPB	2.5	09/30/97	JWB	
BROMOMETHANE	U	PPB	5.0	09/30/97	JWB	
2-BUTANONE (MEK)	U	PPB	25	09/30/97	JWB	
CARBON DISULFIDE	U	PPB	5.0	09/30/97	JWB	
CARBON TETRACHLORIDE	U	PPB	2.5	09/30/97	JWB	
VINYL ACETATE	U	PPB	5.0	09/30/97	JWB	
CHLOROBENZENE	U	PPB	2.5	09/30/97	JWB	
CHLOROETHANE	U	PPB	5.0	09/30/97	JWB	
CHLOROFORM	U	PPB	2.5	09/30/97	JWB	
CHLOROMETHANE	U	PPB	5.0	09/30/97	JWB	
DIBROMOCHLOROMETHANE	U	PPB	2.5	09/30/97	JWB	
1,1-DICHLOROETHANE	U	PPB	2.5	09/30/97	JWB	
1,2-DICHLOROETHANE	U	PPB	2.5	09/30/97	JWB	
1,1-DICHLOROETHENE	U	PPB	2.5	09/30/97	JWB	
CIS-1,2-DICHLOROETHENE	U	PPB	2.5	09/30/97	JWB	
TRANS-1,2-DICHLOROETHENE	U	PPB	2.5	09/30/97	JWB	
1,2-DICHLOROPROPANE	U	PPB	2.5	09/30/97	JWB	
CIS-1,3-DICHLOROPROPENE	U	PPB	2.5	09/30/97	JWB	
TRANS-1,3-DICHLOROPROPENE	U	PPB	2.5	09/30/97	JWB	
ETHYLBENZENE	U	PPB	2.5	09/30/97	JWB	
METHYLENE CHLORIDE	U	PPB	2.5	09/30/97	JWB	
4-METHYL-2-PENTANONE (MIBK)	U	PPB	25	09/30/97	JWB	
STYRENE	U	PPB	2.5	09/30/97	JWB	
2-HEXANONE	U	PPB	5.0	09/30/97	JWB	
1,1,2,2-TETRACHLOROETHANE	U	PPB	2.5	09/30/97	JWB	
TETRACHLOROETHENE	U	PPB	2.5	09/30/97	JWB	
TOLUENE	U	PPB	2.5	09/30/97	JWB	
1,1,1-TRICHLOROETHANE	U	PPB	2.5	09/30/97	JWB	
1,1,2-TRICHLOROETHANE	U	PPB	2.5	09/30/97	JWB	
TRICHLOROETHENE	U	PPB	2.5	09/30/97	JWB	
VINYL CHLORIDE	U	PPB	5.0	09/30/97	JWB	
o-XYLENE	U	PPB	2.5	09/30/97	JWB	
m&p-XYLENE	U	PPB	2.5	09/30/97	JWB	

*-Water, uG/L; Sediment, uG/kg

Printed: October 6, 1997

Project/Site No.: 79-736
 Project Name: DDMT
 Description: G(3,5)
 Station No.: DD-SL-08
 Collected: 09/25/97 14:05:00 By TRT
 County: 79

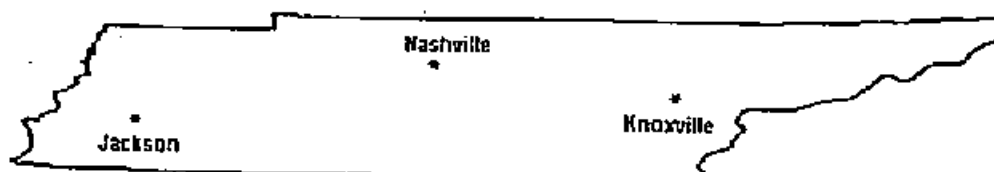
Lab Number: 9709239-02
 Matrix: SOIL
 Received: 09/26/97 16:00:00 By RLH
 Sampling Agency: HWM 83 MFO
 Priority: 10_24_97

TEST	RESULT	UNITS	LIMIT	ANALYZED	BY	METHOD
ALUMINUM	7810	mg/kg	10	10/14/97	DSL	
ANTIMONY	U	mg/kg	0.4	10/24/97	AAJ	
ARSENIC	10	mg/kg	0.1	10/17/97	AAJ	
BARIUM	152	mg/kg	10	10/15/97	DSL	
BERYLLIUM	U	mg/kg	0.3	10/15/97	DSL	
CADMIUM	U	mg/kg	1	10/21/97	DSL	
CALCIUM	1920	mg/kg	3	10/15/97	DSL	
CHROMIUM	12	mg/kg	1	10/22/97	DSL	
COBALT	11	mg/kg	2	10/21/97	DSL	
COPPER	16	mg/kg	1	10/17/97	DSL	
DIGESTION-METALS	10/09/97	COMPLETED		10/09/97	LWC	200.2
IRON	19100	mg/kg	5	10/17/97	DSL	
LEAD	13	mg/kg	4	10/20/97	DSL	
MAGNESIUM	2330	mg/kg	2	10/16/97	DSL	
MANGANESE	535	mg/kg	1	10/22/97	DSL	
MERCURY	U	mg/kg	0.1	10/06/97	ATB	EPA 245.5
METALS PREP-SOLIDS	09/29/97	COMPLETED		09/29/97	DSL	
NICKEL	19	mg/kg	3	10/22/97	DSL	
PERCENT SOLIDS	86	%		10/10/97	LWC	
POTASSIUM	642	mg/kg	2	10/16/97	DSL	
SELENIUM	U	mg/kg	0.5	10/17/97	AAJ	
SILVER	U	mg/kg	2	10/21/97	DSL	
SODIUM	47	mg/kg	3	10/16/97	DSL	

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Description: G(3,5)
Station No.: DD-SL-08
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County: 79

Lab Number: 9709239-02
Matrix: SOIL
Received: 09/26/97 16:00:00 By RI
Sampling Agency: HWM 83 MPO
Priority: 10_24_97

TEST	RESULT	UNITS	LIMIT	ANALYZED	BY	METHO
THALLIUM	U	mg/kg	0.2	10/17/97	AAJ	
VANADIUM	27	mg/kg	0.1	10/24/97	AAJ	
ZINC	59	mg/kg	2	10/21/97	DSL	



STATE OF TENNESSEE ENVIRONMENTAL LABORATORIES

JACKSON LABORATORY
295 SUMMAR AVENUE
JACKSON, TN 38302-0849
PH: (901)423-6600

NASHVILLE LABORATORY
630 BEN ALLEN ROAD
NASHVILLE, TN 37247-0801
PH: (615)262-6300

KNOXVILLE LABORATORY
1522 CHEROKEE TRAIL
KNOXVILLE, TN 37920
PH: (423)549-5201

SENT HWM-DOD FEDERAL FACILITIES
TO: 2500 MOUNT MORIAH SUITE E-645
MEMPHIS, TN 38115

TERRY TEMPLETON
(901)543-6695

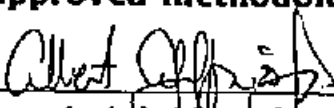
Lab ID: 9709191
Sampling Agency: HWM_83_MFO

Billing Code: 327.38-83



OCT 24 1997

This is to certify that the following results were determined using good laboratory practices and in accordance with federal or state approved methodologies.


Analytical Supervisor

Definition of Data Qualifiers

- U- Analyte requested but not detected
- J- Estimated value--result is less than sample quantitation limit but greater than zero
- B- Analyte in blank as well as sample
- E- Analyte concentration exceeds the calibration range of instrument
- N- Uncertainty in result other than "J" flag
- X,Y,Z- Other flags used to define results as needed

Printed: October 23, 1997

Project/Site No.: 79-736
 Project Name: DDMT
 Description: MW-46 GROUNDWATER
 Station No.: DD-GW-09
 Collected: 09/23/97 09:45:00 By TRT
 County: 79

Lab Number: 9709191-01
 Matrix: WATER
 Received: 09/24/97 08:38:00 By LWC
 Sampling Agency: HWM 83 MFO
 Priority: 10_23_97

TEST	RESULT	UNITS	LIMIT	ANALYZED	BY	METHOD
ALUMINUM	573	ug/l	100	10/10/97	DSL	
ANTIMONY	U	ug/l	3	10/10/97	AAJ	
ARSENIC	1	ug/l	1	10/10/97	AAJ	
BARIUM	U	ug/l	100	10/10/97	DSL	
BERYLLIUM	U	ug/l	1	10/07/97	AAJ	EPA 200.9
CADMIUM	1	ug/l	1	10/09/97	AAJ	EPA 200.9
CALCIUM	14.0	mg/l	0.03	10/15/97	DSL	
CHROMIUM	4	ug/l	1	10/09/97	AAJ	EPA 200.9
COBALT	U	ug/l	15	10/09/97	DSL	
COPPER	4	ug/l	1	10/08/97	AAJ	
DIGESTION-METALS	10/02/97	COMPLETED		10/02/97	DSL	200.2
IRON	2950	ug/l	25	10/07/97	DSL	
LEAD	1	ug/l	1	10/09/97	AAJ	EPA 200.9
MAGNESIUM	7.21	mg/l	0.02	10/16/97	DSL	
MANGANESE	11	ug/l	5	10/07/97	DSL	
MERCURY	U	ug/l	0.2	09/30/97	ATB	EPA 245.1
NICKEL	U	ug/l	10	10/09/97	AAJ	
POTASSIUM	0.78	mg/l	0.02	10/09/97	DSL	
SELENIUM	U	ug/l	2	10/14/97	AAJ	
SILVER	U	ug/l	1	10/07/97	AAJ	EPA 200.9
SODIUM	22.7	mg/l	0.03	10/09/97	DSL	
THALLIUM	U	ug/l	2	10/17/97	AAJ	
VANADIUM	1	ug/l	1	10/22/97	AAJ	

Project/Site No.: 79-736
Project Name: DDMT
Description: MW-46 GROUNDWATER
Station No.: DD-GW-09
Collected: 09/23/97 09:45:00 By TRT
County: 79

Lab Number: 9709191-01
Matrix: WATER
Received: 09/24/97 08:38:00 By LWC
Sampling Agency: HWM 83 MFO
Priority: 10_23_97

TEST	RESULT	UNITS	LIMIT	ANALYZED	BY	METHOD
ZINC	11	ug/l	1	10/06/97	DSL	



STATE OF TENNESSEE

ENVIRONMENTAL LABORATORIES

JACKSON LABORATORY
295 SUMMAR AVENUE
JACKSON, TN 38302-0849
PH: (901)423-6600

NASHVILLE LABORATORY
630 BEN ALLEN ROAD
NASHVILLE, TN 37247-0801
PH: (615)262-6300

KNOXVILLE LABORATORY
1522 CHEROKEE TRAIL
KNOXVILLE, TN 37920
PH: (423)549-5201

SENT HWM- MEMPHIS FIELD OFFICE
TO: 2510 MOUNT MORIAH SUITE E-645
MEMPHIS, TN 38115

TERRY TEMPLETON
(901)543-6695

Lab ID: 9709191
Sampling Agency: HWM_83_MFO

Billing Code: 327.38-83



This is to certify that the following results were determined using good laboratory practices and in accordance with federal or state approved methodologies.

[Signature]
Analytical Supervisor

Definition of Data Qualifiers

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Printed: October 15, 1997

Project/Site No.: 79-736
 Project Name: DDMT
 Description: MW-46 GROUNDWATER
 Station No.: DD-GW-09
 Collected: 09/23/97 09:45:00 By TRT
 County: 79

Lab Number: 9709191-01D
 Matrix: WATER
 Received: 09/24/97 08:38:00 By LWC
 Sampling Agency: HWM 83 MFO
 Priority: 10_23_97

TEST	RESULT	*UNITS	LIMIT	ANALYZED	BY	METHOD
B/N/A EXTR+PESTS, PCBS-H2O						MS+ECD
BUTYL BENZYL PHTHALATE	U	PPB	2.0	10/06/97	MAC	
BIS(2-ETHYLHEXYL)PHTHALATE	5.32	PPB	-	10/06/97	MAC	
DI-n-BUTYL PHTHALATE	U	PPB	1.0	10/06/97	MAC	
DI-n-OCTYL PHTHALATE	U	PPB	5.0	10/06/97	MAC	
DIETHYL PHTHALATE	U	PPB	1.0	10/06/97	MAC	
DIMETHYL PHTHALATE	U	PPB	1.0	10/06/97	MAC	
n-NITROSODIMETHYLAMINE	U	PPB	5.0	10/06/97	MAC	
n-NITROSODIPHENYLAMINE	U	PPB	2.0	10/06/97	MAC	
n-NITROSO-DI-n-PROPYLAMINE	U	PPB	5.0	10/06/97	MAC	
ISOPHORONE	U	PPB	1.0	10/06/97	MAC	
NITROBENZENE	U	PPB	2.0	10/06/97	MAC	
2,4-DINITROTOLUENE	U	PPB	10	10/06/97	MAC	
2,6-DINITROTOLUENE	U	PPB	5.0	10/06/97	MAC	
ACENAPHTHENE	U	PPB	0.50	10/06/97	MAC	
ACENAPHTHYLENE	U	PPB	0.50	10/06/97	MAC	
ANTHRACENE	U	PPB	0.50	10/06/97	MAC	
BENZO(a)ANTHRACENE	U	PPB	1.0	10/06/97	MAC	
BENZO(a)PYRENE	U	PPB	2.0	10/06/97	MAC	
BENZO(b)FLUORANTHENE	U	PPB	2.0	10/06/97	MAC	
BENZO(g,h)PERYLENE	U	PPB	5.0	10/06/97	MAC	
BENZO(k)FLUORANTHENE	U	PPB	1.0	10/06/97	MAC	
DIBENZO(a,h)ANTHRACENE	U	PPB	5.0	10/06/97	MAC	
FLUORANTHENE	U	PPB	0.50	10/06/97	MAC	
FLUORENE	U	PPB	0.50	10/06/97	MAC	
INDENO(1,2,3-cd)PYRENE	U	PPB	5.0	10/06/97	MAC	
NAPHTHALENE	U	PPB	0.50	10/06/97	MAC	
PHENANTHRENE	U	PPB	0.50	10/06/97	MAC	
PYRENE	U	PPB	1.0	10/06/97	MAC	
CHRYSENE	U	PPB	2.0	10/06/97	MAC	
BIS(2-CHLOROETHYL)ETHER	U	PPB	2.0	10/06/97	MAC	
BIS(2-CHLOROETHOXY)METHANE	U	PPB	2.0	10/06/97	MAC	
BIS(2-CHLOROISOPROPYL)ETHER	U	PPB	2.0	10/06/97	MAC	
4-BROMOPHENYLPHENYL ETHER	U	PPB	5.0	10/06/97	MAC	
4-CHLOROPHENYLPHENYL ETHER	U	PPB	2.0	10/06/97	MAC	
HEXACHLOROCYCLOPENTADIENE	U	PPB	5.0	10/06/97	MAC	
HEXACHLOROBUTADIENE	U	PPB	2.0	10/06/97	MAC	
HEXACHLOROBENZENE	U	PPB	2.0	10/06/97	MAC	
HEXACHLOROETHANE	U	PPB	2.0	10/06/97	MAC	
1,2,4-TRICHLOROBENZENE	U	PPB	2.0	10/06/97	MAC	
2-CHLORONAPHTHALENE	U	PPB	1.0	10/06/97	MAC	
4-CHLORO-3-METHYLPHENOL	U	PPB	2.0	10/06/97	MAC	
2-CHLOROPHENOL	U	PPB	2.0	10/06/97	MAC	
2,4-DICHLOROPHENOL	U	PPB	2.0	10/06/97	MAC	
2,4-DIMETHYLPHENOL	U	PPB	2.0	10/06/97	MAC	
2,4-DINITROPHENOL	U	PPB	10	10/06/97	MAC	
2-METHYL-4,6-DINITROPHENOL	U	PPB	5.0	10/06/97	MAC	
2-NITROPHENOL	U	PPB	2.0	10/06/97	MAC	
4-NITROPHENOL	U	PPB	5.0	10/06/97	MAC	
PENTACHLOROPHENOL	U	PPB	5.0	10/06/97	MAC	
PHENOL	U	PPB	2.0	10/06/97	MAC	
2,4,6-TRICHLOROPHENOL	U	PPB	2.0	10/06/97	MAC	
2,4,5-TRICHLOROPHENOL	U	PPB	2.0	10/06/97	MAC	
O-CRESOL	U	PPB	2.0	10/06/97	MAC	
M- & P-CRESOL	U	PPB	2.0	10/06/97	MAC	
2-METHYLNAPHTHALENE	U	PPB	1.0	10/06/97	MAC	
BENZOIC ACID	U	PPB	10	10/06/97	MAC	
BENZYL ALCOHOL	U	PPB	2.0	10/06/97	MAC	
4-CHLOROANILINE	U	PPB	5.0	10/06/97	MAC	
DIBENZOFURAN	U	PPB	0.50	10/06/97	MAC	
3,3-DICHLOROBENZIDINE	U	PPB	10	10/06/97	MAC	
2-NITROANILINE	U	PPB	5.0	10/06/97	MAC	
3-NITROANILINE	U	PPB	5.0	10/06/97	MAC	
4-NITROANILINE	U	PPB	5.0	10/06/97	MAC	
HEXACHLOROBENZENE	U	PPB	0.010	10/06/97	MAC	
ALDRIN	U	PPB	0.013	10/06/97	MAC	
alpha-BHC	U	PPB	0.024	10/06/97	MAC	
beta-BHC	U	PPB	0.034	10/06/97	MAC	
delta-BHC	U	PPB	0.034	10/06/97	MAC	
gamma-BHC (LINDANE)	U	PPB	0.013	10/06/97	MAC	
alpha-CHLORDANE	U	PPB	0.018	10/06/97	MAC	
gamma-CHLORDANE	U	PPB	0.013	10/06/97	MAC	
TECHNICAL CHLORDANE	U	PPB	0.40	10/06/97	MAC	
p,p-DDD	U	PPB	0.025	10/06/97	MAC	

Project/Site No.: 79-736
 Project Name: DDMT
 Description: MW-46 GROUNDWATER
 Station No.: DD-GW-09
 Collected: 09/23/97 09:45:00 By TRT
 County: 79

Lab Number: 9709191-01D
 Matrix: WATER
 Received: 09/24/97 08:38:00 By LWC
 Sampling Agency: HWM 83 MFO
 Priority: 10_23_97

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TEST	RESULT	*UNITS	LIMIT	ANALYZED	BY	METHOD
B/N/A EXTR+PESTS, PCBS-H2O						MS+ECD
p,p-DDE	U	PPB	0.022	10/06/97	MAC	
p,p-DDT	U	PPB	0.023	10/06/97	MAC	
DIELDRIN	U	PPB	0.014	10/06/97	MAC	
ENDOSULFAN I	U	PPB	0.022	10/06/97	MAC	
ENDOSULFAN II	U	PPB	0.025	10/06/97	MAC	
ENDOSULFAN SULFATE	U	PPB	0.025	10/06/97	MAC	
ENDRIN	U	PPB	0.025	10/06/97	MAC	
ENDRIN ALDEHYDE	U	PPB	0.020	10/06/97	MAC	
ENDRIN KETONE	U	PPB	0.025	10/06/97	MAC	
HEPTACHLOR	U	PPB	0.016	10/06/97	MAC	
HEPTACHLOR EPOXIDE	U	PPB	0.017	10/06/97	MAC	
TOXAPHENE	U	PPB	1.4	10/06/97	MAC	
METHOXYCHLOR	U	PPB	0.096	10/06/97	MAC	
PCB 1016/1242	U	PPB	1.5	10/06/97	MAC	
PCB 1221	U	PPB	1.7	10/06/97	MAC	
PCB 1232	U	PPB	1.9	10/06/97	MAC	
PCB 1248	U	PPB	2.6	10/06/97	MAC	
PCB 1254	U	PPB	1.7	10/06/97	MAC	
PCB 1260	U	PPB	1.2	10/06/97	MAC	
PCB 1262	U	PPB	1.1	10/06/97	MAC	

*-Water, uG/L; Sediment, uG/KG

Printed: October 15, 1997



OCT 15 1997

STATE OF TENNESSEE

ENVIRONMENTAL LABORATORIES

JACKSON LABORATORY
295 SUMMAR AVENUE
JACKSON, TN 38302-0849
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NASHVILLE LABORATORY
630 BEN ALLEN ROAD
NASHVILLE, TN 37247-0801
PH: (615)262-6300

KNOXVILLE LABORATORY
1522 CHEROKEE TRAIL
KNOXVILLE, TN 37920
PH: (423)549-5201

SENT HWM- MEMPHIS FIELD OFFICE
TO: 2510 MOUNT MORIAH SUITE E-645
MEMPHIS, TN 38115

TERRY TEMPLETON
(901)543-6695

Lab ID: 9709191
Sampling Agency: HWM_83_MFO

Billing Code: 327.38-83



This is to certify that the following results were determined using good laboratory practices and in accordance with federal or state approved methodologies.

John W. King
Analytical Supervisor

Definition of Data Qualifiers

- U- Analyte requested but not detected
- J- Estimated value--result is less than sample quantitation limit but greater than zero
- B- Analyte in blank as well as sample
- E- Analyte concentration exceeds the calibration range of instrument
- N- Uncertainty in result other than "J" flag
- X,Y,Z- Other flags used to define results as needed

Printed: October 2, 1997

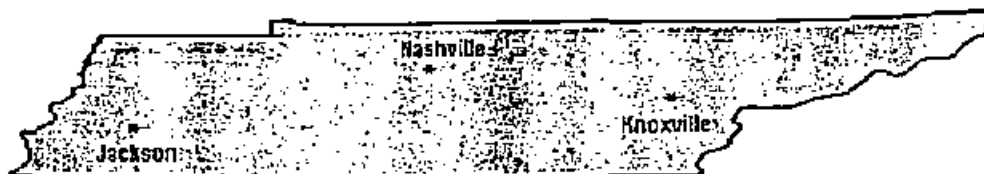
Project/Site No.: 79-736
 Project Name: DDMT
 Site Description: MW-46 GROUNDWATER
 Station No.: DD-GW-09
 Collected: 09/23/97 09:45:00 By TRT
 County: 79

Lab Number: 9709191-01A 270 15
 Matrix: WATER
 Received: 09/24/97 08:38:00 By LWC
 Sampling Agency: HWM 83 MPO
 Priority: 10_23_97

TEST	RESULT	*UNITS	LIMIT	ANALYZED	BY	METHO
VOLATILES-TAL WATERS						8260A
ACETONE	U	PPB	5.0	09/26/97	HMG	
BENZENE	U	PPB	0.50	09/26/97	HMG	
BROMODICHLOROMETHANE	U	PPB	0.50	09/26/97	HMG	
BROMOFORM	U	PPB	0.50	09/26/97	HMG	
BROMOMETHANE	U	PPB	1.0	09/26/97	HMG	
2-BUTANONE (MEK)	U	PPB	5.0	09/26/97	HMG	
CARBON DISULFIDE	U	PPB	1.0	09/26/97	HMG	
CARBON TETRACHLORIDE	U	PPB	0.50	09/26/97	HMG	
VINYL ACETATE	U	PPB	1.0	09/26/97	HMG	
CHLOROBENZENE	U	PPB	0.50	09/26/97	HMG	
CHLOROETHANE	U	PPB	1.0	09/26/97	HMG	
CHLOROFORM	U	PPB	0.50	09/26/97	HMG	
CHLOROMETHANE	U	PPB	1.0	09/26/97	HMG	
DIBROMOCHLOROMETHANE	U	PPB	0.50	09/26/97	HMG	
1,1-DICHLOROETHANE	U	PPB	0.50	09/26/97	HMG	
1,2-DICHLOROETHANE	U	PPB	0.50	09/26/97	HMG	
1,1-DICHLOROETHENE	U	PPB	0.50	09/26/97	HMG	
CIS-1,2-DICHLOROETHENE	U	PPB	0.50	09/26/97	HMG	
TRANS-1,2-DICHLOROETHENE	U	PPB	0.50	09/26/97	HMG	
1,2-DICHLOROPROPANE	U	PPB	0.50	09/26/97	HMG	
CIS-1,3-DICHLOROPROPENE	U	PPB	0.50	09/26/97	HMG	
TRANS-1,3-DICHLOROPROPENE	U	PPB	0.50	09/26/97	HMG	
ETHYLBENZENE	U	PPB	0.50	09/26/97	HMG	
METHYLENE CHLORIDE	U	PPB	0.50	09/26/97	HMG	
4-METHYL-2-PENTANONE (MIBK)	U	PPB	5.0	09/26/97	HMG	
STYRENE	U	PPB	0.50	09/26/97	HMG	
2-HEXANONE	U	PPB	1.0	09/26/97	HMG	
1,1,2,2-TETRACHLOROETHANE	U	PPB	0.50	09/26/97	HMG	
TETRACHLOROETHENE	U	PPB	0.50	09/26/97	HMG	
TOLUENE	U	PPB	0.50	09/26/97	HMG	
1,1,1-TRICHLOROETHANE	U	PPB	0.50	09/26/97	HMG	
1,1,2-TRICHLOROETHANE	U	PPB	0.50	09/26/97	HMG	
TRICHLOROETHENE	U	PPB	0.50	09/26/97	HMG	
VINYL CHLORIDE	U	PPB	1.0	09/26/97	HMG	
o-XYLENE	U	PPB	0.50	09/26/97	HMG	
m & p XYLENE	U	PPB	0.50	09/26/97	HMG	

*-Water, uG/L; Sediment, uG/kg

Printed: October 2, 1997



STATE OF TENNESSEE

ENVIRONMENTAL LABORATORIES

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NASHVILLE LABORATORY
630 BEN ALLEN ROAD
NASHVILLE, TN 37247-0801
PH: (615)262-6300

KNOXVILLE LABORATORY
1522 CHEROKEE TRAIL
KNOXVILLE, TN 37920
PH: (423)549-5201

SENT HWM- MEMPHIS FIELD OFFICE
TO: 2510 MOUNT MORIAH SUITE E-645
MEMPHIS, TN 38115

TERRY TEMPLETON
(901)368-7957

Lab ID: 9709239
Sampling Agency: HWM_83_MFO

Billing Code: 327.38-83



This is to certify that the following results were determined using good laboratory practices and in accordance with federal or state approved methodologies.

Analytical Supervisor

Definition of Data Qualifiers

- U- Analyte requested but not detected
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- X,Y,Z- Other flags used to define results as needed

Printed: November 6, 1997

Project/Site No.: 12-110
Project Name: DDMT
Description: MW-38
Station No.: DD-GW-10
Collected: 09/25/97 10:55:00 By TRT
County: 79

Matrix: GROUND WATER
Received: 09/26/97 16:00:00 By RLM
Sampling Agency: HWM 83 MFO
Priority: 10_24_97

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TEST	RESULT	*UNITS	LIMIT	ANALYZED	BY	METHOD
B/N/A EXTR+PESTS, PCBS-H2O						MS+ECD

*-Water, uG/L; Sediment, uG/kg

Printed: November 6, 1997

SAMPLE WAS DIFFICULT TO EXTRACT AND SURROGATE RECOVERY
WAS POOR. BECAUSE OF THIS, NO LIMITS HAVE BEEN
REPORTED.
BROMACIL WAS TENTATIVELY IDENTIFIED BY LIBRARY MATCH.
NO OTHER SIGNIFICANT PEAKS WERE SEEN.



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STATE OF TENNESSEE

ENVIRONMENTAL LABORATORIES

JACKSON LABORATORY
295 SUMMAR AVENUE
JACKSON, TN 38302-0849
PH: (901)423-6600

NASHVILLE LABORATORY
630 BEN ALLEN ROAD
NASHVILLE, TN 37247-0801
PH: (615)262-6300

KNOXVILLE LABORATORY
1522 CHEROKEE TRAIL
KNOXVILLE, TN 37920
PH: (423)549-5201

SENT HWM- MEMPHIS FIELD OFFICE
TO: 2510 MOUNT MORIAH SUITE E-645
MEMPHIS, TN 38115

TERRY TEMPLETON
(901)543-6695

Lab ID: 9709239
Sampling Agency: HWM_83_MFO

Billing Code: 327.38-83



This is to certify that the following results were determined using good laboratory practices and in accordance with federal or state approved methodologies.


Analytical Supervisor

Definition of Data Qualifiers

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- E- Analyte concentration exceeds the calibration range of instrument
- N- Uncertainty in result other than "J" flag
- X,Y,Z- Other flags used to define results as needed

Printed: October 6, 1997

Project/Site No.: 79-736
 Project Name: DDMT
 Site Description: MW-38
 Station No.: DD-GW-10
 Collected: 09/25/97 10:55:00 By TRT
 County: 79

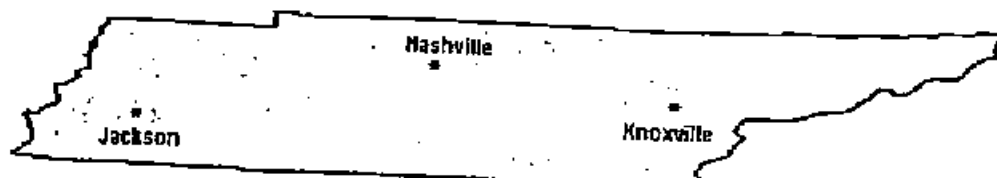
Lab Number: 9709239-01C
 Matrix: GROUND WATER
 Received: 09/26/97 16:00:00 By RLM
 Sampling Agency: HWM 83 MFO
 Priority: 10_24_97

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TEST	RESULT	*UNITS	LIMIT	ANALYZED	BY	METHOD
VOLATILES-TAL WATERS						8260A
ACETONE	U	PPB	5.0	09/30/97	JWB	
BENZENE	U	PPB	0.50	09/30/97	JWB	
BROMODICHLOROMETHANE	U	PPB	0.50	09/30/97	JWB	
BROMOFORM	U	PPB	0.50	09/30/97	JWB	
BROMOMETHANE	U	PPB	1.0	09/30/97	JWB	
2-BUTANONE (MEK)	U	PPB	5.0	09/30/97	JWB	
CARBON DISULFIDE	U	PPB	1.0	09/30/97	JWB	
CARBON TETRACHLORIDE	U	PPB	0.50	09/30/97	JWB	
VINYL ACETATE	U	PPB	1.0	09/30/97	JWB	
CHLOROBENZENE	U	PPB	0.50	09/30/97	JWB	
CHLOROETHANE	U	PPB	1.0	09/30/97	JWB	
CHLOROFORM	U	PPB	0.50	09/30/97	JWB	
CHLOROMETHANE	U	PPB	1.0	09/30/97	JWB	
DIBROMOCHLOROMETHANE	U	PPB	0.50	09/30/97	JWB	
1,1-DICHLOROETHANE	U	PPB	0.50	09/30/97	JWB	
1,2-DICHLOROETHANE	U	PPB	0.50	09/30/97	JWB	
1,1-DICHLOROETHENE	U	PPB	0.50	09/30/97	JWB	
CIS-1,2-DICHLOROETHENE	U	PPB	0.50	09/30/97	JWB	
TRANS-1,2-DICHLOROETHENE	U	PPB	0.50	09/30/97	JWB	
1,2-DICHLOROPROPANE	U	PPB	0.50	09/30/97	JWB	
CIS-1,3-DICHLOROPROPENE	U	PPB	0.50	09/30/97	JWB	
TRANS-1,3-DICHLOROPROPENE	U	PPB	0.50	09/30/97	JWB	
ETHYLBENZENE	U	PPB	0.50	09/30/97	JWB	
METHYLENE CHLORIDE	U	PPB	0.50	09/30/97	JWB	
4-METHYL-2-PENTANONE (MIBK)	U	PPB	5.0	09/30/97	JWB	
STYRENE	U	PPB	0.50	09/30/97	JWB	
2-HEXANONE	U	PPB	1.0	09/30/97	JWB	
1,1,2,2-TETRACHLOROETHANE	U	PPB	0.50	09/30/97	JWB	
TETRACHLOROETHENE	10.2	PPB	0.50	09/30/97	JWB	
TOLUENE	U	PPB	0.50	09/30/97	JWB	
1,1,1-TRICHLOROETHANE	U	PPB	0.50	09/30/97	JWB	
1,1,2-TRICHLOROETHANE	U	PPB	0.50	09/30/97	JWB	
TRICHLOROETHENE	0.5	PPB	0.50	09/30/97	JWB	
VINYL CHLORIDE	U	PPB	1.0	09/30/97	JWB	
o-XYLENE	U	PPB	0.50	09/30/97	JWB	
m & p XYLENE	U	PPB	0.50	09/30/97	JWB	

*-Water, uG/L; Sediment, uG/KG

Printed: October 6, 1997



STATE OF TENNESSEE

ENVIRONMENTAL LABORATORIES

JACKSON LABORATORY
295 SUMMAR AVENUE
JACKSON, TN 38302-0849
PH: (901)423-6600

NASHVILLE LABORATORY
630 BEN ALLEN ROAD
NASHVILLE, TN 37247-0801
PH: (615)262-6300

KNOXVILLE LABORATORY
1522 CHEROKEE TRAIL
KNOXVILLE, TN 37920
PH: (423)549-5201

SENT **HWM-DOD FEDERAL FACILITIES**
TO: **2500 MOUNT MORIAH SUITE E-645**
MEMPHIS, TN 38115

TERRY TEMPLETON
(901)543-6695

Lab ID: **9709239**
Sampling Agency: **HWM_83_MFO**

Billing Code: **327.38-83**



10/27/97

10/27/1997

10/27/1997

This is to certify that the following results were determined using good laboratory practices and in accordance with federal or state approved methodologies.

Albert J. Smith
Analytical Supervisor

Definition of Data Qualifiers

- U- Analyte requested but not detected
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- B- Analyte in blank as well as sample
- E- Analyte concentration exceeds the calibration range of instrument
- N- Uncertainty in result other than "J" flag
- X,Y,Z- Other flags used to define results as needed

Printed: October 24, 1997

Project/Site No.: 79-736
 Project Name: DDMT
 Description: MW-38
 Station No.: DD-GW-10
 Collected: 09/25/97 10:55:00 By TRT
 County: 79

Lab Number: 9709239-01
 Matrix: GROUND WATER
 Received: 09/26/97 16:00:00 By RI
 Sampling Agency: HWM 83 MFO
 Priority: 10_24_97

TEST	RESULT	UNITS	LIMIT	ANALYZED	BY	METHO
ALUMINUM	416	ug/l	100	10/10/97	DSL	
ANTIMONY	U	ug/l	3	10/10/97	AAJ	
ARSENIC	2	ug/l	1	10/10/97	AAJ	
BARIUM	U	ug/l	100	10/10/97	DSL	
BERYLLIUM	U	ug/l	1	10/07/97	AAJ	EPA 200.9
CADMIUM	23	ug/l	1	10/09/97	AAJ	EPA 200.9
CALCIUM	19.3	mg/l	0.03	10/15/97	DSL	
CHROMIUM	13	ug/l	1	10/09/97	AAJ	EPA 200.9
COBALT	U	ug/l	15	10/09/97	DSL	
COPPER	15	ug/l	1	10/08/97	AAJ	
DIGESTION-METALS	10/02/97	COMPLETED		10/02/97	DSL	200.2
IRON	1330	ug/l	25	10/07/97	DSL	
LEAD	9	ug/l	1	10/09/97	AAJ	EPA 200.9
MAGNESIUM	3.83	mg/l	0.02	10/16/97	DSL	
MANGANESE	28	ug/l	5	10/07/97	DSL	
MERCURY	U	ug/l	0.2	09/30/97	ATB	EPA 245.1
NICKEL	10	ug/l	1	10/09/97	AAJ	EPA 200.9
POTASSIUM	2.95	mg/l	0.02	10/09/97	DSL	
SELENIUM	U	ug/l	2	10/14/97	AAJ	
SILVER	U	ug/l	1	10/07/97	AAJ	EPA 200.9
SODIUM	7.06	mg/l	0.03	10/09/97	DSL	
THALLIUM	U	ug/l	2	10/17/97	AAJ	
VANADIUM	U	ug/l	1	10/22/97	AAJ	

Project/Site No.: 79-736
Project Name: DDMT
Description: MW-38
Station No.: DD-GW-10
Collected: 09/25/97 10:55:00 By TRT
County: 79

Lab Number: 9709239-01
Matrix: GROUND WATER
Received: 09/26/97 16:00:00 By RL
Sampling Agency: HWM 83 MFO
Priority: 10_24_97

TEST	RESULT	UNITS	LIMIT	ANALYZED	BY	METHO
ZINC	38	ug/l	1	10/06/97	DSL	

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE

FINAL PAGE

ADMINISTRATIVE RECORD

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