&&&

Analysis Report

LABORATORY CHRONICLE

Lancaster Laboratories
Where quality is a science.

LLI Sample No. WW 3295779
Collected:

Submitted: 12/21/99

Account No: 10160
DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

WLT122099 Trip Blank Water Sample
Site Code: SC001 RFA# YGQP9900271
Dayton Thermal/Dayton, OH
T1220 SDG#: DCC95-03TB

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
6291	TCL by 8260 (water)	SW-846 8260B	1		12/22/99 0935	Joel R. Nace

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3295779
WLT122099 Trip Blank Water Sample
Site Code: SC001 RFA# YGQP9900271
Dayton Thermal/Dayton, OH

Group No. 696536
DaimlerChrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
6291 TCL by 8260 (water)		Batch: L993521AB									
5385 Chloromethane											
3.	ug/l	N.D.		102	103	0	95			57	143
5387 Bromomethane											
3.	ug/l	N.D.		84	82	1	82			17	129
5386 Vinyl Chloride											
2.	ug/l	N.D.		99	97	1	93			63	140
5388 Chloroethane											
3.	ug/l	N.D.		95	93	2	89			24	133
5391 Methylene Chloride											
2.	ug/l	N.D.		96	98	2	93			84	127
6302 Acetone											
6.	ug/l	N.D.		77	77	1	75			64	126
6303 Carbon Disulfide											
3.	ug/l	N.D.		101	101	0	102			70	118
5390 1,1-Dichloroethene											
1.	ug/l	N.D.		106	107	1	100			85	135
5393 1,1-Dichloroethane											
2.	ug/l	N.D.		108	108	0	100			86	128
5396 Chloroform											
1.	ug/l	N.D.		99	99	0	94			86	125
5402 1,2-Dichloroethane											
2.	ug/l	N.D.		87	89	2	85			81	130
6305 2-Butanone											
3.	ug/l	N.D.		95	95	1	93			65	139
5398 1,1,1-Trichloroethane											
1.	ug/l	N.D.		93	94	1	89			82	131
5399 Carbon Tetrachloride											
1.	ug/l	N.D.		96	97	1	91			81	129
5406 Bromodichloromethane											
1.	ug/l	N.D.		89	90	2	90			86	120
5421 1,1,2,2-Tetrachloroethane											
2.	ug/l	N.D.		99	98	1	95			65	133
5404 1,2-Dichloropropane											
1.	ug/l	N.D.		105	104	0	101			86	122
6306 trans-1,3-Dichloropropene											
1.	ug/l	N.D.		93	94	1	91			83	119
5403 Trichloroethene											
1.	ug/l	N.D.		107	106	0	100			89	128
5411 Dibromochloromethane											
2.	ug/l	N.D.		87	88	1	89			80	122
5408 1,1,2-Trichloroethane											
2.	ug/l	N.D.		104	104	0	101			86	121
5401 Benzene											
1.	ug/l	N.D.		111	112	1	106			88	125
6307 cis-1,3-Dichloropropene											
1.	ug/l	N.D.		98	99	1	96			83	120

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3295779
WLT122099 Trip Blank Water Sample
Site Code: SC001 RFA# YGQP9900271
Dayton Thermal/Dayton, OH

Group No. 696536
DaimlerChrysler Corporation

	SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
5419	Bromoform											
	1.	ug/l	N.D.		89	88	1	95			65	128
6308	4-Methyl-2-pentanone											
	5.	ug/l	N.D.		97	98	2	91			72	131
6309	2-Hexanone											
	7.	ug/l	N.D.		96	96	0	90			64	131
5409	Tetrachloroethene											
	1.	ug/l	N.D.		121	121	0	114			78	144
5407	Toluene											
	2.	ug/l	N.D.		111	112	1	107			89	121
5413	Chlorobenzene											
	1.	ug/l	N.D.		101	106	1	102			91	120
5415	Ethylbenzene											
	2.	ug/l	N.D.		110	111	1	104			91	122
5418	Styrene											
	1.	ug/l	N.D.		104	103	1	105			92	120
6310	Xylene (Total)											
	1.	ug/l	N.D.		112	112	0	108			92	123
5392	trans-1,2-Dichloroethene											
	2.	ug/l	N.D.		96	96	0	92			85	130
5395	cis-1,2-Dichloroethene											
	2.	ug/l	N.D.		107	108	1	104			89	125

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3295779
WLT122099 Trip Blank Water Sample
Site Code: SC001 RFA# YGQP9900271
Dayton Thermal/Dayton, OH

Group No. 696536
DaimlerChrysler Corporation

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS LOW	HIGH
6291 TCL by 8260 (water)	DBFM	94	86	118
	d4-1,2-DCA	101	80	120
	d8-toluene	103	88	110
	4-BFB	97	86	115

Lancaster Laboratories
Where quality is a science.

JAN 0 4 2000

LLI Sample No. WW 3295780
Collected: 12/21/99 at 10:00 by LAB

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900271

Submitted: 12/21/99 Reported: 12/27/99
Discard: 02/26/00

Water Storage Blank Grab Water Sample
Site Code: SC001 RFA# YGQP9900271
Dayton Thermal/Dayton, OH
SB21- SDG#: DCC95-04SB*

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS
6291	TCL by 8260 (water)			

See Page 2

1 COPY TO Leggette, Brashears & Graham ATTN: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300
22:06:11 D 0001 4 139744 696536
310 0.00 00000000 ASR000

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories is a subsidiary of Thermo TerraTech Inc., a Thermo Electron Company.
See reverse side for explanation of symbols and abbreviations.

Lancaster Laboratories
Where quality is a science.

LLI Sample No. WW 3295780
Collected: 12/21/99 at 10:00 by LAB

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900271

Submitted: 12/21/99 Reported: 12/27/99
Discard: 02/26/00

Water Storage Blank Grab Water Sample
Site Code: SC001 RFA# YGQP9900271
Dayton Thermal/Dayton, OH
SB21- SDG#: DCC95-04SB*

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS
TCL by 8260 (water)				
5385	Chloromethane	N.D.	3.	ug/l
5387	Bromomethane	N.D.	3.	ug/l
5386	Vinyl Chloride	N.D.	2.	ug/l
5388	Chloroethane	N.D.	3.	ug/l
5391	Methylene Chloride	N.D.	2.	ug/l
6302	Acetone	N.D.	6.	ug/l
6303	Carbon Disulfide	N.D.	3.	ug/l
5390	1,1-Dichloroethene	N.D.	1.	ug/l
5393	1,1-Dichloroethane	N.D.	2.	ug/l
5396	Chloroform	N.D.	1.	ug/l
5402	1,2-Dichloroethane	N.D.	2.	ug/l
6305	2-Butanone	N.D.	3.	ug/l
5398	1,1,1-Trichloroethane	N.D.	1.	ug/l
5399	Carbon Tetrachloride	N.D.	1.	ug/l
5406	Bromodichloromethane	N.D.	1.	ug/l
5421	1,1,2,2-Tetrachloroethane	N.D.	2.	ug/l
5404	1,2-Dichloropropane	N.D.	1.	ug/l
6306	trans-1,3-Dichloropropene	N.D.	1.	ug/l
5403	Trichloroethene	N.D.	1.	ug/l
5411	Dibromochloromethane	N.D.	2.	ug/l
5408	1,1,2-Trichloroethane	N.D.	2.	ug/l
5401	Benzene	N.D.	1.	ug/l
6307	cis-1,3-Dichloropropene	N.D.	1.	ug/l
5419	Bromoform	N.D.	1.	ug/l
6308	4-Methyl-2-pentanone	N.D.	5.	ug/l
6309	2-Hexanone	N.D.	7.	ug/l
5409	Tetrachloroethene	N.D.	1.	ug/l
5407	Toluene	N.D.	2.	ug/l
5413	Chlorobenzene	N.D.	1.	ug/l
5415	Ethylbenzene	N.D.	2.	ug/l
5418	Styrene	N.D.	1.	ug/l
6310	Xylene (Total)	N.D.	1.	ug/l
5392	trans-1,2-Dichloroethene	N.D.	2.	ug/l
5395	cis-1,2-Dichloroethene	N.D.	2.	ug/l

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

&&&

Analysis Report

LABORATORY CHRONICLE

Lancaster Laboratories
Where quality is a science.

LLI Sample No. WW 3295780
Collected: 12/21/99 at 10:00 by LAB

Submitted: 12/21/99

Account No: 10160
DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

Water Storage Blank Grab Water Sample
Site Code: SC001 RFA# YGQP9900271
Dayton Thermal/Dayton, OH
SB21- SDG#: DCC95-04SB*

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
6291	TCL by 8260 (water)	SW-846 8260B	1		12/22/99 1001	Joel R. Nace

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3295780
Water Storage Blank Grab Water Sample
Site Code: SC001 RFA# YGQP9900271
Dayton Thermal/Dayton, OH

Group No. 696536
DaimlerChrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
6291 TCL by 8260 (water)		Batch: L993521AB									
5385 Chloromethane											
3.	ug/l	N.D.		102	103	0	95			57	143
5387 Bromomethane											
3.	ug/l	N.D.		84	82	1	82			17	129
5386 Vinyl Chloride											
2.	ug/l	N.D.		99	97	1	93			63	140
5388 Chloroethane											
3.	ug/l	N.D.		95	93	2	89			24	133
5391 Methylene Chloride											
2.	ug/l	N.D.		96	98	2	93			84	127
6302 Acetone											
6.	ug/l	N.D.		77	77	1	75			64	126
6303 Carbon Disulfide											
3.	ug/l	N.D.		101	101	0	102			70	118
5390 1,1-Dichloroethene											
1.	ug/l	N.D.		106	107	1	100			85	135
5393 1,1-Dichloroethane											
2.	ug/l	N.D.		108	108	0	100			86	128
5396 Chloroform											
1.	ug/l	N.D.		99	99	0	94			86	125
5402 1,2-Dichloroethane											
2.	ug/l	N.D.		87	89	2	85			81	130
6305 2-Butanone											
3.	ug/l	N.D.		95	95	1	93			65	139
5398 1,1,1-Trichloroethane											
1.	ug/l	N.D.		93	94	1	89			82	131
5399 Carbon Tetrachloride											
1.	ug/l	N.D.		96	97	1	91			81	129
5406 Bromodichloromethane											
1.	ug/l	N.D.		89	90	2	90			86	120
5421 1,1,2,2-Tetrachloroethane											
2.	ug/l	N.D.		99	98	1	95			65	133
5404 1,2-Dichloropropane											
1.	ug/l	N.D.		105	104	0	101			86	122
6306 trans-1,3-Dichloropropene											
1.	ug/l	N.D.		93	94	1	91			83	119
5403 Trichloroethene											
1.	ug/l	N.D.		107	106	0	100			89	128
5411 Dibromochloromethane											
2.	ug/l	N.D.		87	88	1	89			80	122
5408 1,1,2-Trichloroethane											
2.	ug/l	N.D.		104	104	0	101			86	121
5401 Benzene											
1.	ug/l	N.D.		111	112	1	106			88	125
6307 cis-1,3-Dichloropropene											
1.	ug/l	N.D.		98	99	1	96			83	120

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3295780
Water Storage Blank Grab Water Sample
Site Code: SC001 RFA# YGQP9900271
Dayton Thermal/Dayton, OH

Group No. 696536
DaimlerChrysler Corporation

	SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
5419	Bromoform											
	1.	ug/l	N.D.		89	88	1	95			65	128
6308	4-Methyl-2-pentanone											
	5.	ug/l	N.D.		97	98	2	91			72	131
6309	2-Hexanone											
	7.	ug/l	N.D.		96	96	0	90			64	131
5409	Tetrachloroethene											
	1.	ug/l	N.D.		121	121	0	114			78	144
5407	Toluene											
	2.	ug/l	N.D.		111	112	1	107			89	121
5413	Chlorobenzene											
	1.	ug/l	N.D.		101	106	1	102			91	120
5415	Ethylbenzene											
	2.	ug/l	N.D.		110	111	1	104			91	122
5418	Styrene											
	1.	ug/l	N.D.		104	103	1	105			92	120
6310	Xylene (Total)											
	1.	ug/l	N.D.		112	112	0	108			92	123
5392	trans-1,2-Dichloroethene											
	2.	ug/l	N.D.		96	96	0	92			85	130
5395	cis-1,2-Dichloroethene											
	2.	ug/l	N.D.		107	108	1	104			89	125

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3295780
Water Storage Blank Grab Water Sample
Site Code: SC001 RFA# YGQP9900271
Dayton Thermal/Dayton, OH

Group No. 696536
DaimlerChrysler Corporation

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS LOW	HIGH
6291 TCL by 8260 (water)	DBFM	94	86	118
	d4-1,2-DCA	103	80	120
	d8-toluene	102	88	110
	4-BFB	97	86	115

10160/ 3295777-80

DAIMLERCHRYSLER Sewer Cleanout Chain-of-Custody

0656 B

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17601 Phone Number: (717) 656-2300 Fax Number: (717) 656-2681	Project Name: DAYTON THERMAL PRODUCTS Site Location: DAYTON OHIO Site Code: SC0001 RFA Number: YGQP990006271 DaimlerChrysler PM: GARY STANCZUK	Consultant: LEGGETTE, BRASHERS & GRAHAM Address: 1210 W. COUNTY RD E SUITE 700 ST PAUL MN 55112 Consultant PM: KEN VOGEL Phone: 651-490-1405 Fax: 651-490-1006

JAN 0 4 2000

Turn-around Time Request: (circle)
24 calendar hrs.
48 calendar hrs.
7 calendar days
14 calendar days

Data Package Deliverables: (circle)
DaimlerChrysler Level 1
DaimlerChrysler Level 2
CLP

Matrix Codes
S - Soil SW - Surface Water
GW - Groundwater A - Air
Sed - Sediment
O - Other (specify) DI water

Are aqueous samples field filtered for metals? Yes No

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	VOC-8260/40ml VOA, HCL	SVOC-8270/1000ml amber, Na2S2O3	Mi-Metals, 6/7000 series, 500ml plastic	TCL PCB, 8082, amber, Na2S2O3	TCL Pest, 8081A amber, Na2S2O3	Appendix IX Herbicides 8151A, amber, Na2S2O3	Corrosivity, Chapt 7 9040B	Reactivity, Chapt 7 9010B	Ignitability, Chapt 7 ASTM D-93	Remarks
WL2611	12/20/99	1720	G	GW	10	X	X	X	X	X	X	X	X	X	Tanker Truck #2611
WL41141	12/20/99	1740	G	GW	10	X	X	X	X	X	X	X	X	X	Frac Tank #4114
WLT22099	—	—	—	O	2	X									TRIP BLANK
TEMP BLANK	—	—	—	O	1										

Sampler(s) Chris Hoffman	Cooler ID # C03442		Samples Relinquished under Airbill No. 813874857577	Temperature (corrected) 3.0°C
	Relinquished by: Christin F. Hoffman	Date: 12/20/99	Time: 1900	Received by: / Date: / Time: / Custody Seal Intact? Yes No
Is RFA sampling complete? Yes No	Relinquished by:	Date:	Time:	Received for Laboratory by: / Date: 12/21/99 / Time: 1000 / Custody Seal Intact? Yes No

SDG 271-F

DaimlerChrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Revision No. 3
Created: July 9, 1999

MP_ID	DATESAMP	ANLYZD	RECVD	PARAMETER	RESULT	QUAL	UNITS
WL2611	19991220	19991222	19991221	pH	7.58		
WL2611	19991220	19991223	19991221	Mercury	0.00321		MG/L
WL2611	19991220	19991223	19991221	Flash Point for Liquids	No Flash Observed		DEGREES F
WL2611	19991220	19991222	19991221	Endrin Ketone	0.019	U	UG/L
WL2611	19991220	19991222	19991221	Alpha Chlordane	0.047	U	UG/L
WL2611	19991220	19991222	19991221	Gamma Chlordane	0.0094	U	UG/L
WL2611	19991220	19991222	19991221	Alpha BHC	0.0094	U	UG/L
WL2611	19991220	19991222	19991221	Beta BHC	0.0094	U	UG/L
WL2611	19991220	19991222	19991221	Gamma BHC - Lindane	0.0094	U	UG/L
WL2611	19991220	19991222	19991221	Delta BHC	0.047	U	UG/L
WL2611	19991220	19991222	19991221	Heptachlor	0.0094	U	UG/L
WL2611	19991220	19991222	19991221	Aldrin	0.0094	U	UG/L
WL2611	19991220	19991222	19991221	Heptachlor Epoxide	0.047	U	UG/L
WL2611	19991220	19991222	19991221	DDE	0.2	U	UG/L
WL2611	19991220	19991222	19991221	DDD	0.019	U	UG/L
WL2611	19991220	19991222	19991221	DDT	0.019	U	UG/L
WL2611	19991220	19991222	19991221	Dieldrin	0.019	U	UG/L
WL2611	19991220	19991222	19991221	Endrin	0.019	U	UG/L
WL2611	19991220	19991222	19991221	Toxaphene	1.4	U	UG/L
WL2611	19991220	19991222	19991221	Endosulfan II	0.019	U	UG/L
WL2611	19991220	19991222	19991221	Endosulfan I	0.0094	U	UG/L
WL2611	19991220	19991222	19991221	Endosulfan Sulfate	0.019	U	UG/L
WL2611	19991220	19991222	19991221	Endrin Aldehyde	0.019	U	UG/L
WL2611	19991220	19991222	19991221	PCB-1016	0.47	U	UG/L
WL2611	19991220	19991222	19991221	PCB-1221	0.47	U	UG/L
WL2611	19991220	19991222	19991221	PCB-1232	0.47	U	UG/L
WL2611	19991220	19991222	19991221	PCB-1242	0.47	U	UG/L
WL2611	19991220	19991222	19991221	PCB-1248	0.47	U	UG/L
WL2611	19991220	19991222	19991221	PCB-1254	3.3		UG/L
WL2611	19991220	19991222	19991221	PCB-1260	0.47	U	UG/L
WL2611	19991220	19991222	19991221	Methoxychlor	0.094	U	UG/L
WL2611	19991220	19991223	19991221	Sulfide (Reactivity)	39	U	MG/KG
WL2611	19991220	19991223	19991221	Cyanide (Reactivity)	100	U	MG/KG
WL2611	19991220	19991223	19991221	2,4-D	1.86		UG/L
WL2611	19991220	19991223	19991221	2,4,5-TP	0.0471	J	UG/L
WL2611	19991220	19991223	19991221	Dinoseb	0.047	U	UG/L
WL2611	19991220	19991223	19991221	2,4,5-T	0.563		UG/L
WL2611	19991220	19991223	19991221	Chromium	0.214		MG/L
WL2611	19991220	19991222	19991221	4-Chloroaniline	0.9	U	UG/L
WL2611	19991220	19991222	19991221	2-Methylnaphthalene	0.9	U	UG/L
WL2611	19991220	19991222	19991221	2-Nitroaniline	2	U	UG/L
WL2611	19991220	19991222	19991221	2,4,5-Trichlorophenol	2	U	UG/L
WL2611	19991220	19991222	19991221	2-Chlorophenol	0.9	U	UG/L
WL2611	19991220	19991222	19991221	Phenol	130		UG/L
WL2611	19991220	19991222	19991221	2-Nitrophenol	0.9	U	UG/L
WL2611	19991220	19991222	19991221	2,4-Dimethylphenol	0.9	U	UG/L
WL2611	19991220	19991222	19991221	2,4-Dichlorophenol	0.9	U	UG/L
WL2611	19991220	19991222	19991221	4-Chloro-3-methylphenol	13		UG/L
WL2611	19991220	19991222	19991221	2,4,6-Trichlorophenol	2	U	UG/L
WL2611	19991220	19991222	19991221	bis(2-Chloroethyl)ether	0.9	U	UG/L
WL2611	19991220	19991222	19991221	1,3-Dichlorobenzene	0.9	U	UG/L
WL2611	19991220	19991222	19991221	1,4-Dichlorobenzene	0.9	U	UG/L
WL2611	19991220	19991222	19991221	1,2-Dichlorobenzene	0.9	U	UG/L
WL2611	19991220	19991222	19991221	Hexachloroethane	0.9	U	UG/L
WL2611	19991220	19991222	19991221	N-Nitroso-di-n-propylamine	0.9	U	UG/L
WL2611	19991220	19991222	19991221	Nitrobenzene	0.9	U	UG/L
WL2611	19991220	19991222	19991221	Isophorone	0.9	U	UG/L
WL2611	19991220	19991222	19991221	bis(2-Chloroethoxy)methane	0.9	U	UG/L
WL2611	19991220	19991222	19991221	1,2,4-Trichlorobenzene	0.9	U	UG/L
WL2611	19991220	19991222	19991221	Naphthalene	0.9	U	UG/L
WL2611	19991220	19991222	19991221	Hexachlorobutadiene	2	U	UG/L
WL2611	19991220	19991222	19991221	Hexachlorocyclopentadiene	5	U	UG/L
WL2611	19991220	19991222	19991221	2-Chloronaphthalene	3	J	UG/L
WL2611	19991220	19991222	19991221	Acenaphthylene	0.9	U	UG/L
WL2611	19991220	19991222	19991221	Dimethylphthalate	2	U	UG/L
WL2611	19991220	19991222	19991221	2-Methylphenol	0.9	U	UG/L
WL2611	19991220	19991222	19991221	2,2'-oxybis(1-Chloropropane)	0.9	U	UG/L

WL2611	19991220	19991222	19991221	4-Methylphenol	3	U	UG/L
WL2611	19991220	19991222	19991221	Dibenzofuran	0.9	U	UG/L
WL2611	19991220	19991222	19991221	3-Nitroaniline	2	U	UG/L
WL2611	19991220	19991222	19991221	4-Nitroaniline	2	U	UG/L
WL2611	19991220	19991222	19991221	2,4-Dinitrophenol	19	U	UG/L
WL2611	19991220	19991222	19991221	4-Nitrophenol	9	U	UG/L
WL2611	19991220	19991222	19991221	4,6-Dinitro-2-methylphenol	5	U	UG/L
WL2611	19991220	19991222	19991221	Pentachlorophenol	3	U	UG/L
WL2611	19991220	19991222	19991221	2,6-Dinitrotoluene	2	U	UG/L
WL2611	19991220	19991222	19991221	Acenaphthene	0.9	U	UG/L
WL2611	19991220	19991222	19991221	2,4-Dinitrotoluene	0.9	U	UG/L
WL2611	19991220	19991222	19991221	Fluorene	0.9	U	UG/L
WL2611	19991220	19991222	19991221	4-Chlorophenyl-phenylether	0.9	U	UG/L
WL2611	19991220	19991222	19991221	Diethylphthalate	2	U	UG/L
WL2611	19991220	19991222	19991221	N-Nitrosodiphenylamine	0.9	U	UG/L
WL2611	19991220	19991222	19991221	4-Bromophenyl-phenylether	2	U	UG/L
WL2611	19991220	19991222	19991221	Hexachlorobenzene	2	U	UG/L
WL2611	19991220	19991222	19991221	Phenanthrene	4	J	UG/L
WL2611	19991220	19991222	19991221	Anthracene	0.9	U	UG/L
WL2611	19991220	19991222	19991221	Di-n-butylphthalate	2	U	UG/L
WL2611	19991220	19991222	19991221	Fluoranthene	5	J	UG/L
WL2611	19991220	19991222	19991221	Pyrene	4	J	UG/L
WL2611	19991220	19991222	19991221	Butylbenzylphthalate	2	U	UG/L
WL2611	19991220	19991222	19991221	Benzo(a)anthracene	2	J	UG/L
WL2611	19991220	19991222	19991221	Chrysene	2	J	UG/L
WL2611	19991220	19991222	19991221	3,3'-Dichlorobenzidine	2	U	UG/L
WL2611	19991220	19991222	19991221	bis(2-Ethylhexyl)phthalate	2	U	UG/L
WL2611	19991220	19991222	19991221	Di-n-octylphthalate	2	U	UG/L
WL2611	19991220	19991222	19991221	Benzo(b)fluoranthene	2	J	UG/L
WL2611	19991220	19991222	19991221	Benzo(k)fluoranthene	1	J	UG/L
WL2611	19991220	19991222	19991221	Benzo(a)pyrene	2	J	UG/L
WL2611	19991220	19991222	19991221	Indeno(1,2,3-cd)pyrene	1	J	UG/L
WL2611	19991220	19991222	19991221	Dibenz(a,h)anthracene	0.9	U	UG/L
WL2611	19991220	19991222	19991221	Benzo(g,h,i)perylene	1	J	UG/L
WL2611	19991220	19991222	19991221	Carbazole	3	U	UG/L
WL2611	19991220	19991222	19991221	Chloromethane	3	U	UG/L
WL2611	19991220	19991222	19991221	Vinyl Chloride	2	U	UG/L
WL2611	19991220	19991222	19991221	Bromomethane	3	U	UG/L
WL2611	19991220	19991222	19991221	Chloroethane	3	U	UG/L
WL2611	19991220	19991222	19991221	1,1-Dichloroethene	2	J	UG/L
WL2611	19991220	19991222	19991221	Methylene Chloride	6		UG/L
WL2611	19991220	19991222	19991221	trans-1,2-Dichloroethene	2	U	UG/L
WL2611	19991220	19991222	19991221	1,1-Dichloroethane	10		UG/L
WL2611	19991220	19991222	19991221	cis-1,2-Dichloroethene	2	U	UG/L
WL2611	19991220	19991222	19991221	Chloroform	1	U	UG/L
WL2611	19991220	19991222	19991221	1,1,1-Trichloroethane	35		UG/L
WL2611	19991220	19991222	19991221	Carbon Tetrachloride	1	U	UG/L
WL2611	19991220	19991222	19991221	Benzene	1	U	UG/L
WL2611	19991220	19991222	19991221	1,2-Dichloroethane	2	U	UG/L
WL2611	19991220	19991222	19991221	Trichloroethene	2	J	UG/L
WL2611	19991220	19991222	19991221	1,2-Dichloropropane	1	U	UG/L
WL2611	19991220	19991222	19991221	Bromodichloromethane	1	U	UG/L
WL2611	19991220	19991222	19991221	Toluene	12		UG/L
WL2611	19991220	19991222	19991221	1,1,2-Trichloroethane	2	U	UG/L
WL2611	19991220	19991222	19991221	Tetrachloroethene	4	J	UG/L
WL2611	19991220	19991222	19991221	Dibromochloromethane	2	U	UG/L
WL2611	19991220	19991222	19991221	Chlorobenzene	1	U	UG/L
WL2611	19991220	19991222	19991221	Ethylbenzene	2	U	UG/L
WL2611	19991220	19991222	19991221	Styrene	1	U	UG/L
WL2611	19991220	19991222	19991221	Bromoform	1	U	UG/L
WL2611	19991220	19991222	19991221	1,1,2,2-Tetrachloroethane	2	U	UG/L
WL2611	19991220	19991222	19991221	Acetone	13	J	UG/L
WL2611	19991220	19991222	19991221	Carbon Disulfide	3	U	UG/L
WL2611	19991220	19991222	19991221	2-Butanone	3	U	UG/L
WL2611	19991220	19991222	19991221	trans-1,3-Dichloropropene	1	U	UG/L
WL2611	19991220	19991222	19991221	cis-1,3-Dichloropropene	1	U	UG/L
WL2611	19991220	19991222	19991221	4-Methyl-2-pentanone	5	U	UG/L
WL2611	19991220	19991222	19991221	2-Hexanone	7	U	UG/L

WL2611	19991220	19991222	19991221	Xylene (Total)	5 J	UG/L
WL2611	19991220	19991223	19991221	Arsenic TR	0.005 U	MG/L
WL2611	19991220	19991223	19991221	Selenium TR	0.0044 U	MG/L
WL2611	19991220	19991223	19991221	Barium TR	0.175	MG/L
WL2611	19991220	19991223	19991221	Cadmium TR	0.0063	MG/L
WL2611	19991220	19991223	19991221	Copper TR	0.204	MG/L
WL2611	19991220	19991223	19991221	Lead TR	0.252	MG/L
WL2611	19991220	19991223	19991221	Silver TR	0.0021 J	MG/L
WL2611	19991220	19991223	19991221	Zinc TR	0.962	MG/L
WL41141	19991220	19991222	19991221	pH	7.91	
WL41141	19991220	19991223	19991221	Mercury	0.00021	MG/L
WL41141	19991220	19991223	19991221	Flash Point for Liquids	No Flash Observed	DEGREES F
WL41141	19991220	19991222	19991221	Endrin Ketone	0.019 U	UG/L
WL41141	19991220	19991222	19991221	Alpha Chlordane	0.0095 U	UG/L
WL41141	19991220	19991222	19991221	Gamma Chlordane	0.0095 U	UG/L
WL41141	19991220	19991222	19991221	Alpha BHC	0.0095 U	UG/L
WL41141	19991220	19991222	19991221	Beta BHC	0.0095 U	UG/L
WL41141	19991220	19991222	19991221	Gamma BHC - Lindane	0.0095 U	UG/L
WL41141	19991220	19991222	19991221	Delta BHC	0.047 U	UG/L
WL41141	19991220	19991222	19991221	Heptachlor	0.0095 U	UG/L
WL41141	19991220	19991222	19991221	Aldrin	0.0095 U	UG/L
WL41141	19991220	19991222	19991221	Heptachlor Epoxide	0.0095 U	UG/L
WL41141	19991220	19991222	19991221	DDE	0.095 U	UG/L
WL41141	19991220	19991222	19991221	DDD	0.019 U	UG/L
WL41141	19991220	19991222	19991221	DDT	0.019 U	UG/L
WL41141	19991220	19991222	19991221	Dieldrin	0.019 U	UG/L
WL41141	19991220	19991222	19991221	Endrin	0.095 U	UG/L
WL41141	19991220	19991222	19991221	Toxaphene	1.4 U	UG/L
WL41141	19991220	19991222	19991221	Endosulfan II	0.019 U	UG/L
WL41141	19991220	19991222	19991221	Endosulfan I	0.0095 U	UG/L
WL41141	19991220	19991222	19991221	Endosulfan Sulfate	0.019 U	UG/L
WL41141	19991220	19991222	19991221	Endrin Aldehyde	0.019 U	UG/L
WL41141	19991220	19991222	19991221	PCB-1016	0.48 U	UG/L
WL41141	19991220	19991222	19991221	PCB-1221	0.48 U	UG/L
WL41141	19991220	19991222	19991221	PCB-1232	0.48 U	UG/L
WL41141	19991220	19991222	19991221	PCB-1242	0.48 U	UG/L
WL41141	19991220	19991222	19991221	PCB-1248	0.48 U	UG/L
WL41141	19991220	19991222	19991221	PCB-1254	2.19 J	UG/L
WL41141	19991220	19991222	19991221	PCB-1260	0.48 U	UG/L
WL41141	19991220	19991222	19991221	Methoxychlor	0.095 U	UG/L
WL41141	19991220	19991223	19991221	Sulfide (Reactivity)	39 U	MG/KG
WL41141	19991220	19991223	19991221	Cyanide (Reactivity)	100 U	MG/KG
WL41141	19991220	19991223	19991221	2,4-D	0.244 J	UG/L
WL41141	19991220	19991223	19991221	2,4,5-TP	0.345	UG/L
WL41141	19991220	19991223	19991221	Dinoseb	0.047 U	UG/L
WL41141	19991220	19991223	19991221	2,4,5-T	0.075	UG/L
WL41141	19991220	19991223	19991221	Chromium	0.0098 U	MG/L
WL41141	19991220	19991222	19991221	4-Chloroaniline	0.9 U	UG/L
WL41141	19991220	19991222	19991221	2-Methylnaphthalene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	2-Nitroaniline	2 U	UG/L
WL41141	19991220	19991222	19991221	2,4,5-Trichlorophenol	2 U	UG/L
WL41141	19991220	19991222	19991221	2-Chlorophenol	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Phenol	0.9 U	UG/L
WL41141	19991220	19991222	19991221	2-Nitrophenol	0.9 U	UG/L
WL41141	19991220	19991222	19991221	2,4-Dimethylphenol	0.9 U	UG/L
WL41141	19991220	19991222	19991221	2,4-Dichlorophenol	0.9 U	UG/L
WL41141	19991220	19991222	19991221	4-Chloro-3-methylphenol	0.9 U	UG/L
WL41141	19991220	19991222	19991221	2,4,6-Trichlorophenol	2 U	UG/L
WL41141	19991220	19991222	19991221	bis(2-Chloroethyl)ether	0.9 U	UG/L
WL41141	19991220	19991222	19991221	1,3-Dichlorobenzene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	1,4-Dichlorobenzene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	1,2-Dichlorobenzene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Hexachloroethane	0.9 U	UG/L
WL41141	19991220	19991222	19991221	N-Nitroso-di-n-propylamine	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Nitrobenzene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Isophorone	0.9 U	UG/L
WL41141	19991220	19991222	19991221	bis(2-Chloroethoxy)methane	0.9 U	UG/L
WL41141	19991220	19991222	19991221	1,2,4-Trichlorobenzene	0.9 U	UG/L

WL41141	19991220	19991222	19991221	Naphthalene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Hexachlorobutadiene	2 U	UG/L
WL41141	19991220	19991222	19991221	Hexachlorocyclopentadiene	5 U	UG/L
WL41141	19991220	19991222	19991221	2-Chloronaphthalene	2 J	UG/L
WL41141	19991220	19991222	19991221	Acenaphthylene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Dimethylphthalate	2 U	UG/L
WL41141	19991220	19991222	19991221	2-Methylphenol	0.9 U	UG/L
WL41141	19991220	19991222	19991221	2,2'-oxybis(1-Chloropropane)	0.9 U	UG/L
WL41141	19991220	19991222	19991221	4-Methylphenol	3 U	UG/L
WL41141	19991220	19991222	19991221	Dibenzofuran	0.9 U	UG/L
WL41141	19991220	19991222	19991221	3-Nitroaniline	2 U	UG/L
WL41141	19991220	19991222	19991221	4-Nitroaniline	2 U	UG/L
WL41141	19991220	19991222	19991221	2,4-Dinitrophenol	19 U	UG/L
WL41141	19991220	19991222	19991221	4-Nitrophenol	9 U	UG/L
WL41141	19991220	19991222	19991221	4,6-Dinitro-2-methylphenol	5 U	UG/L
WL41141	19991220	19991222	19991221	Pentachlorophenol	3 U	UG/L
WL41141	19991220	19991222	19991221	2,6-Dinitrotoluene	2 U	UG/L
WL41141	19991220	19991222	19991221	Acenaphthene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	2,4-Dinitrotoluene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Fluorene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	4-Chlorophenyl-phenylether	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Diethylphthalate	2 U	UG/L
WL41141	19991220	19991222	19991221	N-Nitrosodiphenylamine	0.9 U	UG/L
WL41141	19991220	19991222	19991221	4-Bromophenyl-phenylether	2 U	UG/L
WL41141	19991220	19991222	19991221	Hexachlorobenzene	2 U	UG/L
WL41141	19991220	19991222	19991221	Phenanthrene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Anthracene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Di-n-butylphthalate	2 U	UG/L
WL41141	19991220	19991222	19991221	Fluoranthene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Pyrene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Butylbenzylphthalate	2 U	UG/L
WL41141	19991220	19991222	19991221	Benzo(a)anthracene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Chrysene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	3,3'-Dichlorobenzidine	2 U	UG/L
WL41141	19991220	19991222	19991221	bis(2-Ethylhexyl)phthalate	2 U	UG/L
WL41141	19991220	19991222	19991221	Di-n-octylphthalate	2 U	UG/L
WL41141	19991220	19991222	19991221	Benzo(b)fluoranthene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Benzo(k)fluoranthene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Benzo(a)pyrene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Indeno(1,2,3-cd)pyrene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Dibenz(a,h)anthracene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Benzo(g,h,i)perylene	0.9 U	UG/L
WL41141	19991220	19991222	19991221	Carbazole	3 U	UG/L
WL41141	19991220	19991222	19991221	Chloromethane	3 U	UG/L
WL41141	19991220	19991222	19991221	Vinyl Chloride	2 U	UG/L
WL41141	19991220	19991222	19991221	Bromomethane	3 U	UG/L
WL41141	19991220	19991222	19991221	Chloroethane	3 U	UG/L
WL41141	19991220	19991222	19991221	1,1-Dichloroethene	1 J	UG/L
WL41141	19991220	19991222	19991221	Methylene Chloride	6	UG/L
WL41141	19991220	19991222	19991221	trans-1,2-Dichloroethene	2 U	UG/L
WL41141	19991220	19991222	19991221	1,1-Dichloroethane	6	UG/L
WL41141	19991220	19991222	19991221	cis-1,2-Dichloroethene	2 U	UG/L
WL41141	19991220	19991222	19991221	Chloroform	1 U	UG/L
WL41141	19991220	19991222	19991221	1,1,1-Trichloroethane	22	UG/L
WL41141	19991220	19991222	19991221	Carbon Tetrachloride	1 U	UG/L
WL41141	19991220	19991222	19991221	Benzene	1 U	UG/L
WL41141	19991220	19991222	19991221	1,2-Dichloroethane	2 U	UG/L
WL41141	19991220	19991222	19991221	Trichloroethene	2 J	UG/L
WL41141	19991220	19991222	19991221	1,2-Dichloropropane	1 U	UG/L
WL41141	19991220	19991222	19991221	Bromodichloromethane	1 U	UG/L
WL41141	19991220	19991222	19991221	Toluene	2 U	UG/L
WL41141	19991220	19991222	19991221	1,1,2-Trichloroethane	2 U	UG/L
WL41141	19991220	19991222	19991221	Tetrachloroethene	2 J	UG/L
WL41141	19991220	19991222	19991221	Dibromochloromethane	2 U	UG/L
WL41141	19991220	19991222	19991221	Chlorobenzene	1 U	UG/L
WL41141	19991220	19991222	19991221	Ethylbenzene	2 U	UG/L
WL41141	19991220	19991222	19991221	Styrene	1 U	UG/L
WL41141	19991220	19991222	19991221	Bromoform	1 U	UG/L

WL41141	19991220	19991222	19991221	1,1,2,2-Tetrachloroethane	2	U	UG/L
WL41141	19991220	19991222	19991221	Acetone	11	J	UG/L
WL41141	19991220	19991222	19991221	Carbon Disulfide	3	U	UG/L
WL41141	19991220	19991222	19991221	2-Butanone	4	J	UG/L
WL41141	19991220	19991222	19991221	trans-1,3-Dichloropropene	1	U	UG/L
WL41141	19991220	19991222	19991221	cis-1,3-Dichloropropene	1	U	UG/L
WL41141	19991220	19991222	19991221	4-Methyl-2-pentanone	5	U	UG/L
WL41141	19991220	19991222	19991221	2-Hexanone	7	U	UG/L
WL41141	19991220	19991222	19991221	Xylene (Total)	1	U	UG/L
WL41141	19991220	19991223	19991221	Arsenic TR	0.005	U	MG/L
WL41141	19991220	19991223	19991221	Selenium TR	0.0044	U	MG/L
WL41141	19991220	19991223	19991221	Barium TR	0.0811		MG/L
WL41141	19991220	19991223	19991221	Cadmium TR	0.0025		MG/L
WL41141	19991220	19991223	19991221	Copper TR	0.0297		MG/L
WL41141	19991220	19991223	19991221	Lead TR	0.072		MG/L
WL41141	19991220	19991223	19991221	Silver TR	0.0017	U	MG/L
WL41141	19991220	19991223	19991221	Zinc TR	0.843		MG/L

Lancaster Laboratories
Where quality is a science.

FAX Cover Page

Pages 13

CONFIDENTIAL MATERIAL

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law.

If received in error, please notify sender at once and return the original faxed transmission by U. S. Postal Service to the address indicated blow. Thank you.

2425 New Holland Pike
Lancaster, PA 17605-2425

Phone: 717-656-2300
Fax: 717-656-2681

Deliver to: Mr. Ken Vogel

Company: DAIMLERCHRYSLER CORPORATIO

Fax: 16514901006

From: Kathy Klinefelter Ext 1566

Message:

Dayton SDG=F
99-271
WL2611
pH
Ig.
Corro.
Pest.
PCB's.
React.
Herb.
SVOC
VOC
metals

WL41141
pH.
Ig.
Corro.
Pest.
PCB's
React
Herb.
SVOC
VOC
Metals

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: WW3295777 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 12/21/99 Date Reported: NOT REP
Date Collected: 12/20/99

WL2611 Grab Water Sample
Site Code: SC001 RFA# YGOP9900271
Dayton Thermal/Dayton, OH

	ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS
0200	pH	7.58	0.010	
0259	Mercury	0.00321	0.00010	mg/l
0430	Flash Point for Liquids	No Flash Observed		Degrees F

No flash observed below 155F.
Test flame extinguished at 133F.
Flash point was determined using Pensky Martens closed cup apparatus.
==========

0496	Corrosivity	See Below		See Below

Corrosivity:
The pH of the sample was 7.58 indicating that the sample is not corrosive.
A waste is corrosive if it exhibits a pH equal to or less than 2
or equal to or greater than 12.5.
==========

0937 TCL Pesticides in Waters
Due to the nature of the sample matrix, a reduced aliquot was used
for analysis. The Limits of Quantitation (LOQ's) were raised accordingly.
==========

1600	Alpha BHC	N.D.	0.0094	ug/l
1601	Beta BHC	N.D.	0.0094	ug/l
1603	Delta BHC	N.D.	0.047	ug/l
1602	Gamma BHC - Lindane	N.D.	0.0094	ug/l
1604	Heptachlor	N.D.	0.0094	ug/l
1605	Aldrin	N.D.	0.0094	ug/l
1606	Heptachlor Epoxide	N.D.	0.047	ug/l
1616	Endosulfan I	N.D.	0.0094	ug/l
1610	Dieldrin	N.D.	0.019	ug/l
1607	DDE	N.D.	0.20	ug/l
1611	Endrin	N.D.	0.019	ug/l
1615	Endosulfan II	N.D.	0.019	ug/l
1608	DDD	N.D.	0.019	ug/l
1617	Endosulfan Sulfate	N.D.	0.019	ug/l

1609	DDT	N.D.	0.019	ug/l

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: WW3295777 Account: 10160 DAIMLERCHRYSLER CORPORATION

0938	Endrin Ketone	N.D.	0.019	ug/l
1860	Methoxychlor	N.D.	0.094	ug/l
1361	Alpha Chlordane	N.D.	0.047	ug/l
1362	Gamma Chlordane	N.D.	0.0094	ug/l
1613	Toxaphene	N.D.	1.4	ug/l
1618	Endrin Aldehyde	N.D.	0.019	ug/l
1619	PCB-1016	N.D.	0.47	ug/l
1620	PCB-1221	N.D.	0.47	ug/l
1621	PCB-1232	N.D.	0.47	ug/l
1622	PCB-1242	N.D.	0.47	ug/l
1623	PCB-1248	N.D.	0.47	ug/l
1624	PCB-1254	3.3	0.47	ug/l
1626	PCB-1260	N.D.	0.47	ug/l

==========

1121	Reactivity	See Below		See Below

Reactivity:
The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of hydrogen cyanide exceeding 250 mg/kg or hydrogen sulfide exceeding 500 mg/kg. These interim threshold limits were established by the Solid Waste Branch of EPA, July, 1992. These results do not reflect total cyanide or total sulfide.

==========

1122	Sulfide (Reactivity)	N.D.	39.	mg/kg
1316	AppendixIX Herbicides - Waters			

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Sufficient sample volume was not available to perform a MS/MSD for this analysis. Therefore, a LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

==========

0288	2,4-D	1.86	0.095	ug/l
1314	Dinoseb	N.D.	0.047	ug/l
0289	2,4,5-TP	0.0471 J	0.0095	ug/l
1315	2,4,5-T	0.563	0.0095	ug/l

==========

1751	Chromium	0.214	0.0098	mg/l
4678	TCL SW846 Semivolatiles/Waters			
3925	Phenol	130.	0.9	ug/l
3936	bis(2-Chloroethyl)ether	N.D.	0.9	ug/l
3924	2-Chlorophenol	N.D.	0.9	ug/l
3937	1,3-Dichlorobenzene	N.D.	0.9	ug/l
3938	1,4-Dichlorobenzene	N.D.	0.9	ug/l

3939	1,2-Dichlorobenzene	N.D.	0.9	ug/l

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: WW3295777 Account: 10160 DAIMLERCHRYSLER CORPORATION

4680	2-Methylphenol	N.D.	0.9	ug/l
4681	2,2'-oxybis(1-Chloropropane)	N.D.	0.9	ug/l
4682	4-Methylphenol	N.D.	3.	ug/l

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

==========

3942	N-Nitroso-di-n-propylamine	N.D.	0.9	ug/l
3941	Hexachloroethane	N.D.	0.9	ug/l
3943	Nitrobenzene	N.D.	0.9	ug/l
3944	Isophorone	N.D.	0.9	ug/l
3926	2-Nitrophenol	N.D.	0.9	ug/l
3927	2,4-Dimethylphenol	N.D.	0.9	ug/l
3945	bis(2-Chloroethoxy)methane	N.D.	0.9	ug/l
3928	2,4-Dichlorophenol	N.D.	0.9	ug/l
3946	1,2,4-Trichlorobenzene	N.D.	0.9	ug/l
3947	Naphthalene	N.D.	0.9	ug/l
3871	4-Chloroaniline	N.D.	0.9	ug/l
3948	Hexachlorobutadiene	N.D.	2.	ug/l
3929	4-Chloro-3-methylphenol	13.	0.9	ug/l
3905	2-Methylnaphthalene	N.D.	0.9	ug/l
3949	Hexachlorocyclopentadiene	N.D.	5.	ug/l
3930	2,4,6-Trichlorophenol	N.D.	2.	ug/l
3922	2,4,5-Trichlorophenol	N.D.	2.	ug/l
3950	2-Chloronaphthalene	3. J	0.9	ug/l
3907	2-Nitroaniline	N.D.	2.	ug/l
3952	Dimethylphthalate	N.D.	2.	ug/l
3951	Acenaphthylene	N.D.	0.9	ug/l

==========

4679	TCL SW846 Semivolatiles/Waters			
3908	3-Nitroaniline	N.D.	2.	ug/l
3954	Acenaphthene	N.D.	0.9	ug/l
3931	2,4-Dinitrophenol	N.D.	19.	ug/l
3932	4-Nitrophenol	N.D.	9.	ug/l
3879	Dibenzofuran	N.D.	0.9	ug/l
3955	2,4-Dinitrotoluene	N.D.	0.9	ug/l
3953	2,6-Dinitrotoluene	N.D.	2.	ug/l
3958	Diethylphthalate	N.D.	2.	ug/l
3957	4-Chlorophenyl-phenylether	N.D.	0.9	ug/l
3956	Fluorene	N.D.	0.9	ug/l
3909	4-Nitroaniline	N.D.	2.	ug/l
3933	4,6-Dinitro-2-methylphenol	N.D.	5.	ug/l
3960	N-Nitrosodiphenylamine	N.D.	0.9	ug/l

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

==========

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: WW3295777 Account: 10160 DAIMLERCHRYSLER CORPORATION

3961	4-Bromophenyl-phenylether	N.D.		2.	ug/l
3962	Hexachlorobenzene	N.D.		2.	ug/l
3934	Pentachlorophenol	N.D.		3.	ug/l
3963	Phenanthrene	4.	J	0.9	ug/l
3964	Anthracene	N.D.		0.9	ug/l
4684	Carbazole	N.D.		3.	ug/l
3965	Di-n-butylphthalate	N.D.		2.	ug/l
3966	Fluoranthene	5.	J	0.9	ug/l
3967	Pyrene	4.	J	0.9	ug/l
3969	Butylbenzylphthalate	N.D.		2.	ug/l
3972	3,3'-Dichlorobenzidine	N.D.		2.	ug/l
3970	Benzo(a)anthracene	2.	J	0.9	ug/l
3973	bis(2-Ethylhexyl)phthalate	N.D.		2.	ug/l
3971	Chrysene	2.	J	0.9	ug/l
3974	Di-n-octylphthalate	N.D.		2.	ug/l
3975	Benzo(b)fluoranthene	2.	J	0.9	ug/l
3976	Benzo(k)fluoranthene	1.	J	0.9	ug/l
3977	Benzo(a)pyrene	2.	J	0.9	ug/l
3978	Indeno(1,2,3-cd)pyrene	1.	J	0.9	ug/l
3979	Dibenz(a,h)anthracene	N.D.		0.9	ug/l
3980	Benzo(g,h,i)perylene	1.	J	0.9	ug/l

==========

6291	TCL by 8260 (water)				
5385.	Chloromethane	N.D.		3.	ug/l
5387	Bromomethane	N.D.		3.	ug/l
5386	Vinyl Chloride	N.D.		2.	ug/l
5388	Chloroethane	N.D.		3.	ug/l
5391	Methylene Chloride	6.		2.	ug/l
6302	Acetone	13.	J	6.	ug/l
6303	Carbon Disulfide	N.D.		3.	ug/l
5390	1,1-Dichloroethene	2.	J	1.	ug/l
5393	1,1-Dichloroethane	10.		2.	ug/l
5396	Chloroform	N.D.		1.	ug/l
5402	1,2-Dichloroethane	N.D.		2.	ug/l
6305	2-Butanone	N.D.		3.	ug/l
5398	1,1,1-Trichloroethane	35.		1.	ug/l
5399	Carbon Tetrachloride	N.D.		1.	ug/l
5406	Bromodichloromethane	N.D.		1.	ug/l
5421	1,1,2,2-Tetrachloroethane	N.D.		2.	ug/l
5404	1,2-Dichloropropane	N.D.		1.	ug/l
6306	trans-1,3-Dichloropropene	N.D.		1.	ug/l
5403	Trichloroethene	2.	J	1.	ug/l
5411	Dibromochloromethane	N.D.		2.	ug/l
5408	1,1,2-Trichloroethane	N.D.		2.	ug/l
5401	Benzene	N.D.		1.	ug/l
6307	cis-1,3-Dichloropropene	N.D.		1.	ug/l
5419	Bromoform	N.D.		1.	ug/l
6308	4-Methyl-2-pentanone	N.D.		5.	ug/l

6309	2-Hexanone	N.D.		7.	ug/l

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: WW3295777 Account: 10160 DAIMLERCHRYSLER CORPORATION

5409	Tetrachloroethene	4.	J	1.	ug/l
5407	Toluene	12.		2.	ug/l
5413	Chlorobenzene	N.D.		1.	ug/l
5415	Ethylbenzene	N.D.		2.	ug/l
5418	Styrene	N.D.		1.	ug/l
6310	Xylene (Total)	5.	J	1.	ug/l
5392	trans-1,2-Dichloroethene	N.D.		2.	ug/l
5395	cis-1,2-Dichloroethene	N.D.		2.	ug/l

==========

7035	Arsenic TR	N.D.		0.0050	mg/l
7036	Selenium TR	N.D.		0.0044	mg/l
7046	Barium TR	0.175		0.00049	mg/l
7049	Cadmium TR	0.0063		0.00081	mg/l
7053	Copper TR	0.204		0.0029	mg/l
7055	Lead TR	0.252		0.0079	mg/l
7066	Silver TR	0.0021	J	0.0017	mg/l
7072	Zinc TR	0.962		0.0030	mg/l

Sample Number: WW3295778 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 12/21/99 Date Reported: NOT REP
Date Collected: 12/20/99

WL41141 Grab Water Sample
Site Code: SC001 RFA# YGQP9900271
Dayton Thermal/Dayton, OH

	ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS
0200	pH	7.91	0.010	
0259	Mercury	0.00021	0.00010	mg/l
0430	Flash Point for Liquids	No Flash Observed		Degrees F

No flash observed below 165F.
Test flame extinguished at 145F.
Flash point was determined using Pensky Martens closed cup apparatus.
==========

0496	Corrosivity	See Below	See Below

Corrosivity:
The pH of the sample was 7.91 indicating that the sample is not corrosive.
A waste is corrosive if it exhibits a pH equal to or less than 2
or equal to or greater than 12.5.
==========

0937 TCL Pesticides in Waters
Due to the nature of the sample matrix, a reduced aliquot was used

or analysis. The Limits of Quantitation (LOQ's) were raised accordingly.

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: WW3295778 Account: 10160 DAIMLERCHRYSLER CORPORATION

==========

1600	Alpha BHC	N.D.		0.0095	ug/l
1601	Beta BHC	N.D.		0.0095	ug/l
1603	Delta BHC	N.D.		0.047	ug/l
1602	Gamma BHC - Lindane	N.D.		0.0095	ug/l
1604	Heptachlor	N.D.		0.0095	ug/l
1605	Aldrin	N.D.		0.0095	ug/l
1606	Heptachlor Epoxide	N.D.		0.0095	ug/l
1616	Endosulfan I	N.D.		0.0095	ug/l
1610	Dieldrin	N.D.		0.019	ug/l
1607	DDE	N.D.		0.095	ug/l
1611	Endrin	N.D.		0.095	ug/l
1615	Endosulfan II	N.D.		0.019	ug/l
1608	DDD	N.D.		0.019	ug/l
1617	Endosulfan Sulfate	N.D.		0.019	ug/l
1609	DDT	N.D.		0.019	ug/l
0938	Endrin Ketone	N.D.		0.019	ug/l
1860	Methoxychlor	N.D.		0.095	ug/l
1361	Alpha Chlordane	N.D.		0.0095	ug/l
1362	Gamma Chlordane	N.D.		0.0095	ug/l
1613	Toxaphene	N.D.		1.4	ug/l
1618	Endrin Aldehyde	N.D.		0.019	ug/l
1619	PCB-1016	N.D.		0.48	ug/l
1620	PCB-1221	N.D.		0.48	ug/l
1621	PCB-1232	N.D.		0.48	ug/l
1622	PCB-1242	N.D.		0.48	ug/l
1623	PCB-1248	N.D.		0.48	ug/l
1624	PCB-1254	2.19	J	0.48	ug/l
1626	PCB-1260	N.D.		0.48	ug/l

==========

1121	Reactivity	See Below	See Below

Reactivity:
The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of hydrogen cyanide exceeding 250 mg/kg or hydrogen sulfide exceeding 500 mg/kg. These interim threshold limits were established by the Solid Waste Branch of EPA, July, 1992. These results do not reflect total cyanide or total sulfide.

==========

1122	Sulfide (Reactivity)	N.D.	39.	mg/kg
1316	AppendixIX Herbicides - Waters			

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Sufficient sample volume was not available to perform a MS/MSD for this

nalysis. Therefore, a LCS/LCSD was performed to demonstrate precision and

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: WW3295778 Account: 10160 DAIMLERCHRYSLER CORPORATION

accuracy at a batch level.

==========

0288	2,4-D	0.244	J	0.095	ug/l
1314	Dinoscb	N.D.		0.047	ug/l
0289	2,4,5-TP	0.345		0.0095	ug/l
1315	2,4,5-T	0.075		0.0095	ug/l

==========

1751	Chromium	N.D.		0.0098	mg/l
4678	TCL SW846 Semivolatiles/Waters				
3925	Phenol	N.D.		0.9	ug/l
3936	bis(2-Chloroethyl)ether	N.D.		0.9	ug/l
3924	2-Chlorophenol	N.D.		0.9	ug/l
3937	1,3-Dichlorobenzene	N.D.		0.9	ug/l
3938	1,4-Dichlorobenzene	N.D.		0.9	ug/l
3939	1,2-Dichlorobenzene	N.D.		0.9	ug/l
4680	2-Methylphenol	N.D.		0.9	ug/l
4681	2,2'-oxybis(1-Chloropropane)	N.D.		0.9	ug/l
4682	4-Methylphenol	N.D.		3.	ug/l

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

==========

3942	N-Nitroso-di-n-propylamine	N.D.		0.9	ug/l
3941	Hexachloroethane	N.D.		0.9	ug/l
3943	Nitrobenzene	N.D.		0.9	ug/l
3944	Isophorone	N.D.		0.9	ug/l
3926	2-Nitrophenol	N.D.		0.9	ug/l
3927	2,4-Dimethylphenol	N.D.		0.9	ug/l
3945	bis(2-Chloroethoxy)methane	N.D.		0.9	ug/l
3928	2,4-Dichlorophenol	N.D.		0.9	ug/l
3946	1,2,4-Trichlorobenzene	N.D.		0.9	ug/l
3947	Naphthalene	N.D.		0.9	ug/l
3871	4-Chloroaniline	N.D.		0.9	ug/l
3948	Hexachlorobutadiene	N.D.		2.	ug/l
3929	4-Chloro-3-methylphenol	N.D.		0.9	ug/l
3905	2-Methylnaphthalene	N.D.		0.9	ug/l
3949	Hexachlorocyclopentadiene	N.D.		5.	ug/l
3930	2,4,6-Trichlorophenol	N.D.		2.	ug/l
3922	2,4,5-Trichlorophenol	N.D.		2.	ug/l
3950	2-Chloronaphthalene	2.	J	0.9	ug/l
3907	2-Nitroaniline	N.D.		2.	ug/l
3952	Dimethylphthalate	N.D.		2.	ug/l
3951	Acenaphthylene	N.D.		0.9	ug/l

==========

4679 TCL SW846 Semivolatiles/Waters

3908	3-Nitroaniline	N.D.	2.	ug/l

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: WW3295778 Account: 10160 DAIMLERCHRYSLER CORPORATION

3954	Acenaphthene	N.D.		0.9	ug/l
3931	2,4-Dinitrophenol	N.D.		19.	ug/l
3932	4-Nitrophenol	N.D.		9.	ug/l
3879	Dibenzofuran	N.D.		0.9	ug/l
3955	2,4-Dinitrotoluene	N.D.		0.9	ug/l
3953	2,6-Dinitrotoluene	N.D.		2.	ug/l
3958	Diethylphthalate	N.D.		2.	ug/l
3957	4-Chlorophenyl-phenylether	N.D.		0.9	ug/l
3956	Fluorene	N.D.		0.9	ug/l
3909	4-Nitroaniline	N.D.		2.	ug/l
3933	4,6-Dinitro-2-methylphenol	N.D.		5.	ug/l
3960	N-Nitrosodiphenylamine	N.D.		0.9	ug/l

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine.
The result reported for N-nitrosodiphenylamine represents the combined
total of both compounds.

==========

3961	4-Bromophenyl-phenylether	N.D.		2.	ug/l
3962	Hexachlorobenzene	N.D.		2.	ug/l
3934	Pentachlorophenol	N.D.		3.	ug/l
3963	Phenanthrene	N.D.		0.9	ug/l
3964	Anthracene	N.D.		0.9	ug/l
4684	Carbazole	N.D.		3.	ug/l
3965	Di-n-butylphthalate	N.D.		2.	ug/l
3966	Fluoranthene	N.D.		0.9	ug/l
3967	Pyrene	N.D.		0.9	ug/l
3969	Butylbenzylphthalate	N.D.		2.	ug/l
3972	3,3'-Dichlorobenzidine	N.D.		2.	ug/l
3970	Benzo(a)anthracene	N.D.		0.9	ug/l
3973	bis(2-Ethylhexyl)phthalate	N.D.		2.	ug/l
3971	Chrysene	N.D.		0.9	ug/l
3974	Di-n-octylphthalate	N.D.		2.	ug/l
3975	Benzo(b)fluoranthene	N.D.		0.9	ug/l
3976	Benzo(k)fluoranthene	N.D.		0.9	ug/l
3977	Benzo(a)pyrene	N.D.		0.9	ug/l
3978	Indeno(1,2,3-cd)pyrene	N.D.		0.9	ug/l
3979	Dibenz(a,h)anthracene	N.D.		0.9	ug/l
3980	Benzo(g,h,i)perylene	N.D.		0.9	ug/l

==========

6291	TCL by 8260 (water)				
5385	Chloromethane	N.D.		3.	ug/l
5387	Bromomethane	N.D.		3.	ug/l
5386	Vinyl Chloride	N.D.		2.	ug/l
5388	Chloroethane	N.D.		3.	ug/l
5391	Methylene Chloride	6.		2.	ug/l
6302	Acetone	11.	J	6.	ug/l
6303	Carbon Disulfide	N.D.		3.	ug/l
5390	1,1-Dichloroethene	1.	J	1.	ug/l

5393	1,1-Dichloroethane	6.	2.	ug/l

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: WW3295778 Account: 10160 DAIMLERCHRYSLER CORPORATION

5396	Chloroform	N.D.		1.	ug/l
5402	1,2-Dichloroethane	N.D.		2.	ug/l
6305	2-Butanone	4.	J	3.	ug/l
5398	1,1,1-Trichloroethane	22.		1.	ug/l
5399	Carbon Tetrachloride	N.D.		1.	ug/l
5406	Bromodichloromethane	N.D.		1.	ug/l
5421	1,1,2,2-Tetrachloroethane	N.D.		2.	ug/l
5404	1,2-Dichloropropane	N.D.		1.	ug/l
6306	trans-1,3-Dichloropropene	N.D.		1.	ug/l
5403	Trichloroethene	2.	J	1.	ug/l
5411	Dibromochloromethane	N.D.		2.	ug/l
5408	1,1,2-Trichloroethane	N.D.		2.	ug/l
5401	Benzene	N.D.		1.	ug/l
6307	cis-1,3-Dichloropropene	N.D.		1.	ug/l
5419	Bromoform	N.D.		1.	ug/l
6308	4-Methyl-2-pentanone	N.D.		5.	ug/l
6309	2-Hexanone	N.D.		7.	ug/l
5409	Tetrachloroethene	2.	J	1.	ug/l
5407	Toluene	N.D.		2.	ug/l
5413	Chlorobenzene	N.D.		1.	ug/l
5415	Ethylbenzene	N.D.		2.	ug/l
5418	Styrene	N.D.		1.	ug/l
6310	Xylene (Total)	N.D.		1.	ug/l
5392	trans-1,2-Dichloroethene	N.D.		2.	ug/l
5395	cis-1,2-Dichloroethene	N.D.		2.	ug/l

==========

7035	Arsenic TR	N.D.	0.0050	mg/l
7036	Selenium TR	N.D.	0.0044	mg/l
7046	Barium TR	0.0811	0.00049	mg/l
7049	Cadmium TR	0.0025	0.00081	mg/l
7053	Copper TR	0.0297	0.0029	mg/l
7055	Lead TR	0.072	0.0079	mg/l
7066	Silver TR	N.D.	0.0017	mg/l
7072	Zinc TR	0.843	0.0030	mg/l

Sample Number: WW3295779 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 12/21/99 Date Reported: NOT REP
Date Collected:

WLT122099 Trip Blank Water Sample
Site Code: SC001 RFA# YGOP9900271
Dayton Thermal/Dayton, OH

ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS

6291 TCL by 8260 (water)

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: WW3295779 Account: 10160 DAIMLERCHRYSLER CORPORATION

5385	Chloromethane	N.D.	3.	ug/l
5387	Bromomethane	N.D.	3.	ug/l
5386	Vinyl Chloride	N.D.	2.	ug/l
5388	Chloroethane	N.D.	3.	ug/l
5391	Methylene Chloride	N.D.	2.	ug/l
6302	Acetone	N.D.	6.	ug/l
6303	Carbon Disulfide	N.D.	3.	ug/l
5390	1,1-Dichloroethene	N.D.	1.	ug/l
5393	1,1-Dichloroethane	N.D.	2.	ug/l
5396	Chloroform	N.D.	1.	ug/l
5402	1,2-Dichloroethane	N.D.	2.	ug/l
6305	2-Butanone	N.D.	3.	ug/l
5398	1,1,1-Trichloroethane	N.D.	1.	ug/l
5399	Carbon Tetrachloride	N.D.	1.	ug/l
5406	Bromodichloromethane	N.D.	1.	ug/l
5421	1,1,2,2-Tetrachloroethane	N.D.	2.	ug/l
5404	1,2-Dichloropropane	N.D.	1.	ug/l
6306	trans-1,3-Dichloropropene	N.D.	1.	ug/l
5403	Trichloroethene	N.D.	1.	ug/l
5411	Dibromochloromethane	N.D.	2.	ug/l
5408	1,1,2-Trichloroethane	N.D.	2.	ug/l
5401	Benzene	N.D.	1.	ug/l
6307	cis-1,3-Dichloropropene	N.D.	1.	ug/l
5419	Bromoform	N.D.	1.	ug/l
6308	4-Methyl-2-pentanone	N.D.	5.	ug/l
6309	2-Hexanone	N.D.	7.	ug/l
5409	Tetrachloroethene	N.D.	1.	ug/l
5407	Toluene	N.D.	2.	ug/l
5413	Chlorobenzene	N.D.	1.	ug/l
5415	Ethylbenzene	N.D.	2.	ug/l
5418	Styrene	N.D.	1.	ug/l
6310	Xylene (Total)	N.D.	1.	ug/l
5392	trans-1,2-Dichloroethene	N.D.	2.	ug/l
5395	cis-1,2-Dichloroethene	N.D.	2.	ug/l

==========

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: WW3295780 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 12/21/99 Date Reported: NOT REP
Date Collected: 12/21/99

Water Storage Blank Grab Water Sample
Site Code: SC001 RFA# YGQP9900271
Dayton Thermal/Dayton, OH

	ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS
6291	TCL by 8260 (water)			
5385	Chloromethane	N.D.	3.	ug/l
5387	Bromomethane	N.D.	3.	ug/l
5386	Vinyl Chloride	N.D.	2.	ug/l
5388	Chloroethane	N.D.	3.	ug/l
5391	Methylene Chloride	N.D.	2.	ug/l
6302	Acetone	N.D.	6.	ug/l
6303	Carbon Disulfide	N.D.	3.	ug/l
5390	1,1-Dichloroethene	N.D.	1.	ug/l
5393	1,1-Dichloroethane	N.D.	2.	ug/l
5396	Chloroform	N.D.	1.	ug/l
5402	1,2-Dichloroethane	N.D.	2.	ug/l
6305	2-Butanone	N.D.	3.	ug/l
5398	1,1,1-Trichloroethane	N.D.	1.	ug/l
5399	Carbon Tetrachloride	N.D.	1.	ug/l
5406	Bromodichloromethane	N.D.	1.	ug/l
5421	1,1,2,2-Tetrachloroethane	N.D.	2.	ug/l
5404	1,2-Dichloropropane	N.D.	1.	ug/l
6306	trans-1,3-Dichloropropene	N.D.	1.	ug/l
5403	Trichloroethene	N.D.	1.	ug/l
5411	Dibromochloromethane	N.D.	2.	ug/l
5408	1,1,2-Trichloroethane	N.D.	2.	ug/l
5401	Benzene	N.D.	1.	ug/l
6307	cis-1,3-Dichloropropene	N.D.	1.	ug/l
5419	Bromoform	N.D.	1.	ug/l
6308	4-Methyl-2-pentanone	N.D.	5.	ug/l
6309	2-Hexanone	N.D.	7.	ug/l
5409	Tetrachloroethene	N.D.	1.	ug/l
5407	Toluene	N.D.	2.	ug/l
5413	Chlorobenzene	N.D.	1.	ug/l
5415	Ethylbenzene	N.D.	2.	ug/l
5418	Styrene	N.D.	1.	ug/l
6310	Xylene (Total)	N.D.	1.	ug/l
5392	trans-1,2-Dichloroethene	N.D.	2.	ug/l

5395	cis-1,2-Dichloroethene	N.D.	2.	ug/l

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: WW3295780 Account: 10160 DAIMLERCHRYSLER CORPORATION

==========

DAIMLERCHRYSLER Sewer Cleanout — Chain-of-Custody

0656 B

Lancaster Laboratories	Project Name: DAYTON THERMAL PRODUCTS	Consultant: EGGETTE, BRASHERS & GRAHAM	
2425 New Holland Pike	Site Location: DAYTON OHIO	Address: 1210 W. COUNTY RD E SUITE 700	
Lancaster, PA 17601	Site Code: SC001	ST PAUL MN 55112	
Phone Number: (717) 656-2300	RFA Number: YGQP990027	Consultant PM: KEN VOGEL	
Fax Number: (717) 656-2681	DaimlerChrysler PM: GARY STANCZUK	Phone: 651-4901405	Fax: 651-490-1006

Turn-around Time Request: (circle)
24 calendar hrs.
48 calendar hrs.
7 calendar days
14 calendar days

Data Package Deliverables: (circle)
DaimlerChrysler Level 1
DaimlerChrysler Level 2
CLP

Matrix Codes:
S - Soil; SW - Surface Water; GW - Groundwater; A - Air; Sed. - Sediment; O - Other (specify) DI water LAB?

Are aqueous samples field filtered for metals? Yes / No

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	VOC-8260/40ml VOA, HCL	SVOC-8270/1000ml amber, Na2S2O3	MI-Metals, 6/1000 Pories, 500ml plastic	TCL PCB, 8080, amber, Na2S2O3	TCL Pest, 8081A amber, Na2S2O3	Appendix IX Herbicides 8151A, amber, Na2S2O3	Corrosivity, Chapt 7 9040B	Reactivity, Chapt 7 9010B	Ignitability, Chapt 7 ASTM D-93	Remarks
WL2611	12/20/99		G	GW	10	X	X	X	X	X	X	X	X	X	Tanker Truck #261
WL4114			G	GW	10	X	X	X	X	X	X	X	X	X	Frac Tank #4114
WLT22099	—	—	—	O	2	X									TRIP BLANK
TEMP BLANK	—	—	—	O	1										

Sampler(s): Chris Hoffman

Cooler ID #: C03442

Samples Relinquished under Airbill No. 813874857577 Temperature (corrected) ___ C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
	12/20					Yes No

Is RFA sampling complete?	Relinquished by:	Date:	Time:	Received for Laboratory by:	Date:	Time:	Custody Seal Intact?
Yes No							Yes No

SDG 271-F

DaimlerChrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Revision No. 3
Created: July 9, 1999

Page 1 of 1

DEC 18 '99 14:48 FR DAYTON THERMAL PROD 937 224 2571 TO 8-16514901006-59 P.06/06
** TOTAL PAGE.06 **

EPA Region 5 Records Ctr.
350101

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MWA-1
PROJECT: 3CHRY4 / DAYTON	98-254-T	Date: 10/15/98
LOCATION: DAYTON, OH		Inspectors: Dan Driscoll
		Pump #: NA
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
10:44	58°	Cloudy	L	V. slight		Dry
						began to drizzle

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 2.8
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.11 / –	29.1		7.2 / 7.25	980 / 940
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.11	2.8	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
10:47	bailed	Initial	19.3	980	7.2	0.39		22.11
11:00		9		940	7.25			
	Sample Collected @		11:00					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.11	39.05	16.94	0.163	2.8	3	8.3

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: MWA-1

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2/60 ml	P, G, (AG)	HCl	39	11:00	DGO 10/15/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: TIME: COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐Grab ☐Composite ☐Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MW A-2
PROJECT: 3 CHRY / DAYTON	98-254-T	Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD
		Pump #: NA
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
16:10	60°	Sunny	L	V. slight		Dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 3.2
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	19.96	29.35		7.4/7.7	1000/1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	19.96	3.2	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
16:12	bailed	Initial	20.2	1000	7.4	0.24		19.96
16:30		10		1000	7.7			
	Sample Collected @		16:25					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
19.96	39.35	19.39	0.163	3.2	3	9.5

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant:	Client:	Well #:
LBG	Dayton Thermal Products	MW.A-2

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	4/60ml	P, G, AG	HCl	28	16:25	DGG 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Collected MS/MSD

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MWA-3
PROJECT: 3CHRY4 / DAYTON	98-254-T	Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: Dan Driscoll
		Pump #: NA
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
15:50	60°	Sunny	L	V. slight		dry

MONITORING	
Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 2.7
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.73 / —	29.3		7.4 / 7.2	900 / 900
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.73	2.7	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
15:50	bailed	Initial	19	900	7.4	0.17		22.73
15:56		9		900	7.2			
	Sample Collected @		16:00					

1	2	3	4	5	6	7
Water Level to Top of Well Casing (ft)	Top of Casing to Bottom of Casing (ft)	Column of Standing Water in Well (ft) (2 minus 1)	Well Diameter Factor	Volume in Gallons (3×4)	Number of Well Volumes to be Evacuated	Total Volume to be Evacuated (Gallons) (5×6)
22.73	39.3	16.57	0.163	2.7	3	8.1

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: MW A-3

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	4/60 ml	P, G, AG	HCl	26	16:00	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Collected MS/MSD

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: TIME: COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MWA-4
PROJECT: 3CHRY4 / DAYTON 98-254-T		Date: 10/15/98
LOCATION: DAYTON, OH		Inspectors: Dan Driscoll / Brian Kimpel
		Pump #: NA
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
14:15	58°	Sunny	L	V. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 3.75
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.00 / –	35.0		7.2	1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.00	3.75	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
3:30	bailed	12	18.4	1000	7.2	1.7		22.00
	Sample Collected @		14:15					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.00	45.00	23.00	0.163	3.75	3	11.2

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: MW.A-4

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2/60ml	P, G, (AG)	HCl	40	14:15	DGO 10/15/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: TIME: COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐Grab ☐Composite ☐Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MWA-5
PROJECT: 3CHRY98/DAYTON	98-254-T	Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: Dan Driscoll
		Pump #: NA
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
13:30	60°	Sunny	L	V. slight		Dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 2.85
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	21.87 / –	29.35		7.3 / 7.2	1000 / 1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	21.87	2.85	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
1322	bailed	initial	21.7	1000	7.3	0.82		21.87
1326				1000	7.2			
	Bailed dry	3 gallons						
	Sample Collected @		13:30					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
21.87	39.35	17.48	0.163	2.85	3	8.5

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: MWA-5

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60 ml	P, G, (AG)	HCl	16	13:30	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐Grab ☐Composite ☐Other

TESTS REQUIRED: | PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MWA-6
PROJECT: 3CHRY4 / DAYTON 98-254-T		Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: Dan Driscoll
		Pump #: NA
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
13:45	60°	Sunny	L	V. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 2.83
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.41 / —	29.80		7.4 / 7.2	1000 / 1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.41	2.83	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
13:50	bailed	initial	19.1	1000	7.4	1.15		22.41
13:59		9		1000	7.2			
Collected Duplicate Sample			13:56					
Collected Sample @		13:55						

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.41	39.80	17.39	0.163	2.83	3	8.5

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MWA-6

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	6/60 ml	P, G, AG	HCl	18	13:55	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Collected duplicate also

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐Grab ☐Composite ☐Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: | Well# MWB1

PROJECT: 3CHRY4 / DAYTON
LOCATION: DAYTON, OH

Date: 10/14/98
Inspectors: DD + DO
Pump #: St. Pauls Whaler
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
8:40	50°	Sunny	L	V. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 9.6
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	15.33 / –	64.15		7.1 / 7.0	960 / 940
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	15.33	9.6	28.00	8:00

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~ER~~ DO	Turbidity (NTU)	Depth to Water (ft)
8:42	1.0 gpm	~~50.00~~	15.3	960	7.1	0.45		15.33
		30.00		940	7.0			
	Sample Collected at 8:50							

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
15.33	74.15	58.82	0.163	9.6	3	28.8

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant:	Client:	Well #:
LBG	Dayton Thermal Products	MWB-1

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60 ml	P, G, AG	HCl	2	8:50	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: TIME: COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐Grab ☐Composite ☐Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MWB-2
PROJECT: 3CHRY34/DAYTON	98-254-T	Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD/BK
		Pump #: St. Pauls whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
11:25	56°	Sunny	L	V. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 10.5
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.30	76.85		7.9 / 7.1	140 / 1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.30	10.5	~25	11:00

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
11:00	~ 1.0 gpm	initial	16.5	~~1000~~	~~7.1~~	7.82		22.30
				140	7.9			
11:30		34		1000	7.1			
	Sample Collected @		11:30					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.30	86.85	64.55	0.163	10.5	3	31.5

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: MWB-2

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60 ml	P, G, (AG)	HCl	11	11:30	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MW03
PROJECT: 3CHRY4/DAYTON 98-254-T		Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD/BK
		Pump #: St Pauls whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
15:20	62°	Sunny	L	V. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 5.37
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.81 / –	45.75		7.0 / 7.0	1000 / 1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.81	5.37	~25	15:01

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D. O.	Turbidity (NTU)	Depth to Water (ft)
15:01	~1.0 gpm	Initial	17.5	1000	7.0	0.29		22.81
15:30		17		1000	7.0			
	Sample Collected @		15:30					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.81	55.75	32.94	0.163	5.37	3	16.1

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

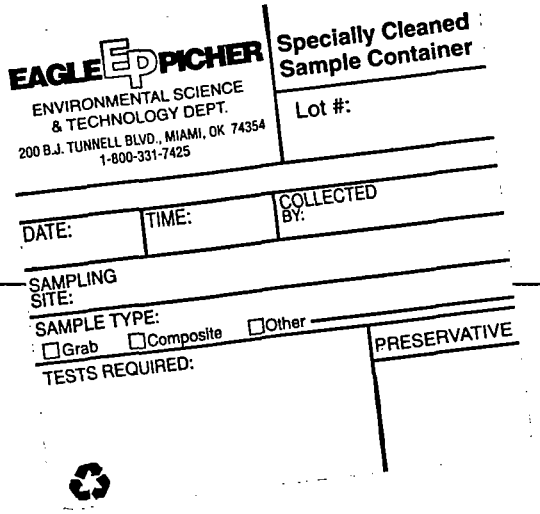
Consultant: LBG	Client: Dayton Thermal Products	Well #: MWB-3

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2 / 60 ml	P, G, (AG)	HCl	24	15:30	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:


EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425
Specially Cleaned Sample Container
Lot #:
DATE:
TIME:
COLLECTED BY:
SAMPLING SITE:
SAMPLE TYPE:
☐Grab ☐Composite ☐Other
TESTS REQUIRED:
PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MOBE-4
PROJECT: 3CHRY9 / DAYTON 98-254-T		Date: 10/14/98
LOCATION: DAYTON, OH.		Inspectors: DD/BK
		Pump #: ~~Mediums whaler~~ NA
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
9:00	50°	Sunny	L	v.slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 1.97
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.87 / –	24.95		7.1 / 7.1	760/920
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.87	1.97	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
9:30	Bailed	~~6.3~~ initial	15.4 76°		7.1	2.06		22.87
		6.3		920	7.1			
Sample	Collected @	9:40						

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.87	34.95	12.08	0.163	1.97	3	5.9

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: MW13-4

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60 ml	P, G, AG	HCl	4	9:40	10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐Grab ☐Composite ☐Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MWB-5
PROJECT: 3CHRY9 / DAYTON	98-254-T	Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD / BK
		Pump #: Madisons Whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
13:00	60°	Sunny	L	V. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 11.17
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	21.37 / -	79.90		7.0 / 6.9	1100 / 1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	21.37	11.17	~25	12:55

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
12:55	~2.0 gpm	initial	17.2	1100	7.0	4.70		21.37
13:20		36		1000	6.9			
	Sample Collected @		13:20					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
21.37	89.90	68.53	0.163	11.17	3	33.5

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant:	Client:	Well #:
LBG	Dayton Thermal Products	MWB-5

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60ml	P, G, AG	HCl	15	13:20	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐Grab ☐Composite ☐Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MW3-6
PROJECT: 3CHRY7 / DAYTON 98-254-T		Date: 10/15/98
LOCATION: DAYTON, OH		Inspectors: DD / BK
		Pump #: Madisons whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
7:45	49°	Pt. Cloudy	L	V. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 3.88
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	21.97	35.80		8.2/7.6	1000/920
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
		21.97	3.88	~25	7:45

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
7:46	~2 gpm	initial	17.6	1000	8.2	0.15		21.97
7:52		12		920	7.6			
	Sample Collected @		7:55					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
21.97	45.80	23.83	0.163	3.88	3	11.7

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: MWB-6

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2/60ml	P, G, AG	HCl	30	7:55	DGO 10/15/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐Grab ☐Composite ☐Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER MWC-1

Consultant: LBG	Chrysler RFA Number:	Well# MW G1
PROJECT: 3CHR74 / DAYTON 98-254-T		Date: 10/14/98
LOCATION: DAYTON OH		Inspectors: DD, BK
		Pump #: whaler (Madisons)
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
8:30	50°	Sunny	Low	slight		Dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 15.42
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	17.42 / —	102.00		6.8 / 6.9	760 / 780
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	17.42	15.42	20-22	8:20

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
~~8:44~~ 8:20	~2.0 gpm	52.00	18.1	760	6.8	0.39		17.42
8:40				780	6.9			
Collected	Sample @	8:40						

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of ~~Screen~~ Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
17.42	112	94.58	0.163	15.42	3	46.2

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: MWC-1

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60ml	P, G, AG	HCl	1	8:40	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: TIME: COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MWC-2
PROJECT: 3CHRY7/DAYTON	98-254-T	Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD/BK
		Pump #: Madisons Whaley
		Bladder #: N.A

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
11:20	56°	Sunny	L	v. slight		dry

MONITORING

Instrument	Detector
N.A	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 15.9
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	24.46/—	112.00		7.4/7.1	680/680
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	N.A	24.46	15.9	~28	11:20

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
11:20	~2 gpm	initial	15.6	680	7.4	0.22		24.46
11:47		52		880	7.1			
	Sample Collected @		11:45					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
24.46	122.00	97.54	0.163	15.9	3	47.7

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

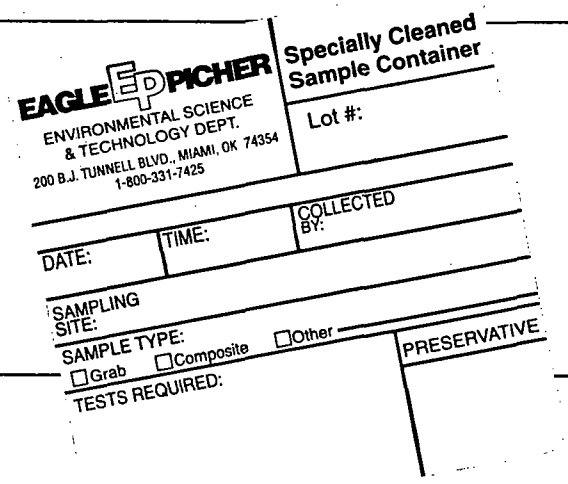
Consultant: LBG	Client: Dayton Thermal Products	Well #: MWC-2

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60ml	P, G, (AG)	HCl	12	11:45	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:



CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MWC-3
PROJECT: 3CHRYT/DAYTON	98-254-T	Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD/BK
		Pump #: Madisons Water
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
15:10	62°	Sunny	L	V. Slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 9.97
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.86 / –	74.00		7.0 / –	1000 / –
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.86	9.97	~25	15:03

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
15:03	~2 gpm	initial	17.4	1000	7.0	2.89		22.86
15:40		32						
		Sample Collected @		15:40				

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.86	84.00	61.14	0.163	9.97	3 ~~29.9~~	29.9

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: MWC-3

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2/60ml	P, G, (AG)	HCl	25	15:40	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MW-7S
PROJECT: 3CHRY4/DAYTON 98254-T		Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD
		Pump #: bailed
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
12:50	56°	Sunny	L	v. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 1.42
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	21.52	20.25		7.2 / 7.1	1000 / 1080
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	21.52	1.42	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
12:50	bailed	initial	17.3	1000	7.2	4.63		21.52
12:54		4.5		1080	7.1			
	Sample Collected @		13:00					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
21.52	30.25	8.73	0.163	1.42	3	4.3

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: MW-7S

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60ml	P, G, AG	HCl	13	13:00	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-7I
PROJECT: 3 CHRY48/ DAYTON 98-254-T		Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD/BK
		Pump #: St. Pauls whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
12:50	56°	Sunny	L	V. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 5.57
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	21.15	53.35		7.0/6.9	1100/1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	21.15	5.57	~25	12:50

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
12:57	~1 gpm	initial	17.0	1100	7.0	3.24		21.15
1:03		18		1000	6.9			
	Sample Collected @		13:10					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
21.15	55.35	34.20	0.163	5.57	3	16.7

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: PZ-7I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60ml	P, G, (AG)	HCl	14	13:10	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: TIME: COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MW-8S
PROJECT: CHRY4/DAYTON	98-254-T	Date: 10/15/98
LOCATION: DAYTON, OH		Inspectors: DD
		Pump #: bailed
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
8:05	49°	Sunny	L	V.slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 1.22
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	21.54	19.00		7.4 / 7.3	630 / 620
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	21.54	1.22	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
8:07	bailed	initial	20.3	630	7.4	3.02		21.54
8:13		4		620	7.3			
	Sample Collected @		8:15					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
21.54	29.00	7.46	0.163	1.22	3	3.6

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: MW-85

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2/60ml	P, G, (AG)	HCl	31	8:15	DGO 10/15/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐Grab ☐Composite ☐Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-8I
PROJECT: 3CHRY7 / DAYTON	98-254-T	Date: 10/15/98
LOCATION: DAYTON, OH		Inspectors: DD / BK
		Pump #: St Paul Whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
8:05	49°	Sunny	L	v. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 2.80
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	21.24	36.40		7.5 / 7.2	870 / 760
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	21.24	2.80	~25	8:07

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
8:08	~1 gpm	initial	~~18.2~~ 20.4	870	7.5	0.42		21.24
8:15		9		760	7.2			
	Sample Collected @		8:20					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
21.24	38.40	17.16	0.163	2.80	3	8.4

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: PZ-8I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2/60ml	P, G, (AG)	HCl	32	8:20	DGO 10/15/98
1A	BTEX		P, G, AG		32		
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-8 D
PROJECT: 3CHR17/DAYTON	98-254-T	Date: 10/15/98
LOCATION: DAYTON, OH		Inspectors: DD/BK
		Pump #: Madsens whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
8:05	49°	Sunny	L	v.slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 9.38
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	21.09	76.65		7.5/7.0	1000/1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	21.09	9.38	~25	8:06

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
8:07	~2 gpm	initial	18.2	1000	7.5	3.02		21.09
8:16		30		1000	7.0			
	Sample Collected @		8:25					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
21.09	78.65	57.56	0.163	9.38	3	28.1

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: PZ-8D

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2/60ml	P, G, (AG)	HCl	33	8:25	DGG 10/15/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-9D
PROJECT: 3CHRY9/DAYTON 98-254-T		Date: 10/15/98
LOCATION: DAYTON, OH		Inspectors: DD/BK
		Pump #: Masons Wheler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
8:40	50°	Pt Cloudy	L	V.slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 7.42
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.10 / –	65.60		7.4 / –	~~285~~ 1000 / –
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.10	7.42	~26	8:35

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
8:40	~2 gpm	initial	18.6	1000	7.4	2.85		22.10
		24						
	Sample Collected @		8:50					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.10	67.60	45.50	0.163	7.42	3	22.2

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-9D

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2 / 60ml	P, G, AG	HCl	34	8:50	DGG 10/15/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐Grab ☐Composite ☐Other

TESTS REQUIRED: | PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MW-10S
PROJECT: 3CHRYY/DAYTON	98-254-T	Date: 10/15/98
LOCATION: DAYTON, OH		Inspectors: DD
		Pump #: bailed
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
9:20	52°	Cloudy	L	v.slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 1.11
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.62 / –	19.40		7.3 / –	1000 / –
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.62	1.11	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D. O.	Turbidity (NTU)	Depth to Water (ft)
9:25	bailed		19.1	1000	7.3	0.16		22.62
	Sample Collected @		9:30					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.62	29.40	6.78	0.163	1.11	3	3.3

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal	Well #: MW-105

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2/60ml	P, G, (AG)	HCl	35	9:30	DGO 10/15/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-101
PROJECT: 3CHRY4/DAYTON 98-254-T		Date: 10/15/98
LOCATION: DAYTON, OH		Inspectors: DD/BK
		Pump #: St Pauls whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
9:20	52	Cloudy	L	V. Slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 4.45
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.61 / –	47.90		7.3	1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.61	4.45	~25	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
9:25	~1 gpm	14	17.9	1000	7.3	1.04		22.61
	Sample Collected @		9:35					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.61	49.90	27.29	0.163	4.45	3	13.3

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Product | Well #: PZ-10I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2 / 60ml	P, G, (AG)	HCl	36	9:35	DGO 10/15/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MW-11S
PROJECT: 3CHRYSLY/DAYTON 98-254-T		Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD
		Pump #: bailed
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
15:20	62°	Sunny	L	v.slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 1.02
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.81	19.05		7.0	1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.81	1.02	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
15:02	bailed	3.5	19.9	1000	7.0	0.16		22.81
Sample Collected @		15:15						
Collected Duplicate		Sample	15:16					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.81	29.05	6.24	0.163	1.02	3	3.1

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: MW-115

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	4/60ml	P, G, AG	HCl	23	15:15	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Collected duplicate also

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: TIME: COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-12I
PROJECT: 3CHRY/DAYTON	98-254-T	Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD/BK
		Pump #: St Pauls Whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
13:45	60°	Sunny	L	V. Slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 5.78
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.41	55.85		7.3/7.0	1000/1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.41	5.78	~25	13:45

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
13:45	~1 gpm	initial	18.2	1000	7.3	3.57		22.41
14:00		18.5		1000	7.0			
	Sample Collected @		14:00					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.41	57.85	35.44	0.163	5.78	3	17.3

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: PZ-12I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60ml	P, G, (AG)	HCl	19	14:00	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: TIME: COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐Grab ☐Composite ☐Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-12D
PROJECT: 3CHRY4 / DAYTON 98-254-T		Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD / BK
		Pump #: Madsons whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
13:45	60°	Sunny	L	V.Slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 10.11
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.45	82.45		7.4/7.0	1000/1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.45	10.11	~26	13:45

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
13:46	~2.5 gpm	initial	18.6	1000	7.4	2.56		22.45
14:00		32		1000	7.0			
	Sample Collected @		14:10					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.45	84.45	62.00	0.163	10.11	3	30.3

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-12D

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60ml	P, G, (AG)	HCl	20	14:10	DGG 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-13I
PROJECT: 3CHRY4 / DAYTON 98-254-T		Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD / BK
		Pump #: Madisons whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
13:30	60°	Sunny	L	v. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 4.25
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	21.71	45.8		7.2 / 7.2	1000 / 1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	21.71	4.25	~25	13:21

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
1323	~2.5 gpm	initial	19.0	1000	7.2	2.32		21.71
1327		13.5		1000	7.2			
	Sample Collected @		13:40					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
21.71	47.80	26.09	0.163	4.25	3	12.8

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: PZ-13I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60 ml	P, G, (AG)	HCl	17	13:40	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-14 I
PROJECT: 3CHRY4/DAYTON	98-254-T	Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD/BK
		Pump #: St. Pauls wheeler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
15:50	60°	Sunny	L	v. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 6.10
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.46 / —	57.9		7.4 / 7.0	900 / 900
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.46	6.10	~25	15:50

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
15:52	~1 gpm	initial	18.3	900	7.4	4.02		22.46
16:05		20		906	7.0			
	Sample Collected @		16:10					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.46	59.90	37.44	0.163	6.10	3	18.3

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-14I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2/60ml	P, G, AG	HCl	27	16:10	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐Grab ☐Composite ☐Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MW-15S
PROJECT: 3CHRY7/DAYTON	98-254-T	Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD
		Pump #: bailed
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
14:45	62°	Sunny	L	V. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 1.96
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	17.41	19.45		7.8/7.5	640/780
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	17.41	1.96	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
14:47	bailed	initial	18.6	640	7.8	0.68		17.41
14:53		6.2		780	7.5			
	Sample Collected @		14:50					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
17.41	29.45	12.04	0.163	1.96	3	5.9

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MW-155

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2/60ml	P, G, (AG)	HCl	21	14:50	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-15I
PROJECT: 3CHRY4 / DAYTON	98-254-T	Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD/BK
		Pump #: Madisons whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
14:40	62°	Sunny	L	V.slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 5.25
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	17.85	48.05		8.0/7.3	1000/1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	17.85	5.25	~23	14:44

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
14:45	~2 gpm	Initial	19.8	1000	8.0	2.97		
14:55		17		1000	7.3			
	Sample Collected @		15:01					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
17.85	50.05	32.20	0.163	5.25	3	15.7

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: PZ-15I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2/60ml	P, G, (AG)	HCl	22	15:01	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐Grab ☐Composite ☐Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER PZ-16D

Consultant: LBG	Chrysler RFA Number:	Well# ~~MW~~ 16D
PROJECT: 3CHR742 / DAYTON 98-254-T		Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD / BK
		Pump #: Madisons whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
16:10	60°	Sunny	L	V. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	19.86 / -	79		7.6 / 7.5	1100 / 1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	19.86	9.95	~24	16:11

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
16:11	~2 gpm	initial	17.9	1100	7.6	1.45		19.86
16:31		32		1000	7.5			
	Sample Collected @ 16:30							

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
19.86	80.90	61.04	0.163	9.95	3	29.8

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

7.1
1000

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: ~~AAW~~ PZ-16D

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2/60ml	P, G, (AG)	HCl	29	16:30	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-17I
PROJECT: 3CHRY4 / DAYTON	98-254-T	Date: 10/15/98
LOCATION: DAYTON, OH		Inspectors: DD / BK
		Pump #: Madisons whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
10:00	58°	Cloudy	L	V. slight		drizzle

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 5.84
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	21.85	55.65		7.1 / 7.0	980 / 960
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	21.85	5.84	~25	10:12

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
10:15	~2 gpm	initial	17.9	980	7.1	0.43		21.85
10:18		20		960	7.0			
	Sample Collected @		10:20					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
21.85	57.65	35.80	0.163	5.84	3	17.5

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-17I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2/60ml	P, G, (AG)	HCl	38	10:20	DGO 10/15/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐Grab ☐Composite ☐Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-170
PROJECT: 3CHRY4 / DAYTON	98-254-T	Date: 10/15/98
LOCATION: DAYTON, OH		Inspectors: DD / BK
		Pump #: St Pauls Wheater
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
10:03	58°	Cloudy	L	V. slight		drizzle

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 10.03
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.69	82.25		7.6 pH 7.0	~~600/900~~ 600/900
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.69	10.03	~27	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
10:05	~1 gpm	initial	16.6	600	7.6	7.63		22.69
11:17		32		900	7.0			
	Sample Collected @		10:10					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.69	84.25	61.56	0.163	10.03	3	30.1

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-17D

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	2/60ml	P, G, (AG)	HCl	37	10:10	DGO 10/15/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MW 185
PROJECT: 3CHRY7 / DAYTON	98-254-T	Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD
		Pump #: bailed
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
11:00	55°	Sunny	L	V. Slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 1.12
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.75 / -	19.6		7.5 / 7.2	710 / 710
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.75	1.12	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
11:04	bailed	~~5.0~~ initial	16.6	710	7.5	0.78		22.75
11:10		5.0		710	7.2			
	Sample Collected @		11:04					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.75	29.60	6.85	0.163	1.12	3	3.3

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MW-185

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60ml	P, G, (AG)	HCl	10	11:04	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐Grab ☐Composite ☐Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MW-19S
PROJECT: 3CHRY7 / DAYTON	98-254-7	Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD
		Pump #: bailed
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
9:55	50°	Pt. Sunny	L	v. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 0.73
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	18.95	13.40		7.3 / 7.1	790 / 800
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	18.95	0.73	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
10:00	bailed	initial	17.1	790	7.3	4.74		18.95
10:08		1.5		800	7.1			
	Bailed dry @ 1.5 gal.							
	Sample Collected @ 10:10							

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
18.95	23.40	4.45	0.163	0.73	3	2.2

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LTG	Client: Dayton Thermal Products	Well #: MW-195

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60ml	P, G, AG	HCl	6	10:10	DGG 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: TIME: COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-19 I
PROJECT: 3CHRY4/DAYTON 98-254-T		Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD/BK
		Pump #: Madisons Whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
10:00	50°	Pt. Sunny	L	V. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 7.02
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	19.07/-	60.15		7.3/7.4	740/730
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	19.07	7.02	~24	10:05

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
10:05	~2gpm	initial	16.6	740	7.3	1.55		19.07
10:20		22		730	7.4			
	Sample Collected @		10:20					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
19.07	62.15	43.08	0.163	7.02	3	21.1

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: PZ-19I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60ml	P, G, (AG)	HCl	7	10:20	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MW-20 S
PROJECT: 3CHRY4 / DAYTON	98-254-T	Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD
		Pump #: bailed
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
10:35	55°	Sunny	L	v. slight		dry

MONITORING	
Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 1.4
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	19.23 / –	17.80		7.1 / 7.1	1000 / 1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	19.23	1.4	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
10:35	NA	~~4.5~~ initial	14.8	1000	7.1	0.25		19.23
10:40	bailed	4.5		1000	7.1			
	Sample Collected @		10:45					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
19.23	27.80	8.57	0.163	1.4	3	4.2

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MW-205

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60ml	P, G, AG	HCl	8	10:45	DGO
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE: ☐Grab ☐Composite ☐Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-20D'
PROJECT: 3CHRY94/DAYTON	98-254-T	Date: 10/14/98
LOCATION: DAYTON, OH		Inspectors: DD/BK
		Pump #: Madisons whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
10:30	55°	Sunny	L	V. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 10.72
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	19.11 / -	82.90		7.3 / 7.4	900 / 850
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	19.11	10.72	~23	10:35

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
10:40	~2 gpm	initial	14.5	900	7.3	0.33		19.11
10:50		35		850	7.4			
	Sample Collected @		10:50					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
19.11	84.90	65.79	0.163	10.72	3	32.2

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: PZ-20D

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60ml	P, G, AG	HCl	9	10:50	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: TIME: COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant:	Chrysler RFA Number:	Well# ~~PZ~~ PZ-21F

PROJECT: 3CHRY04/DAYTON 98-254-T

LOCATION: DAYTON, Ohio

Date: 10/14/98

Inspectors: DD/BK

Pump #: Madisons whaler

Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
9:30	50°	Sunny	L	v. slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 5.25

Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.29/–	52.50		7.3/7.4	680/720
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
		22.29	5.25	~26	9:30

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
9:30	~2 gpm	initial	16.3	680	7.3	0.69		22.29
		17		720	7.4			
	Sample	Collected @	9:50					

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.29	54.50	32.21	0.163	5.25	3	15.8

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-21I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60ml	P, G, (AG)	HCl	5	9:50	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐Grab ☐Composite ☐Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ22I
PROJECT: ~~RFA~~ 3 CHRYS / DAYTON 98-254-T		Date: 10/14/98
LOCATION: DAYTON		Inspectors: DD / BK
		Pump #: Madisons wheler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
9:00	50°	Sunny	L	V.slight		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 4.34
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	17.90/-	42.55		7.0	710
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	17.90	4.34	~20	8:58

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
8:59	~2gpm	13	16.3	710	7.0	0.69		17.90
	Sample	Collected	@	9:05				

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
17.90	44.50	26.60	0.163	4.34	3	13.0

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-22I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/60ml	P, G, AG	HCl	3	9:05	DGO 10/14/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels:

EAGLE PICHER
ENVIRONMENTAL SCIENCE & TECHNOLOGY DEPT.
200 B.J. TUNNELL BLVD., MIAMI, OK 74354
1-800-331-7425

Specially Cleaned Sample Container

Lot #:

DATE: | TIME: | COLLECTED BY:

SAMPLING SITE:

SAMPLE TYPE:
☐ Grab ☐ Composite ☐ Other

TESTS REQUIRED:

PRESERVATIVE

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# Sparge H_2O
PROJECT: Schrgy/Dayton YGQP9800254-T		Date: 10/15/98
LOCATION: 1600 Webster St		Inspectors: DD
Dayton OH		Pump #: NA
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	Eh	Turbidity (NTU)	Depth to Water (ft)
16:45	Sample collected from 1025 gallon holding tank using Polyethylene disposabe bailer							
10/14	Water was Sparged from 5 PM until compressor ran out of diesel fuel (fill tank)							
10/15	" " " "		7:30 AM	until 16:40 PM				

1	2	3	4	5	6	7
Water Level to Top of Well Casing (ft)	Top of Casing to Bottom of Casing (ft)	Column of Standing Water in Well (ft) (2 minus 1)	Well Diameter Factor	Volume in Gallons (3×4)	Number of Well Volumes to be Evacuated	Total Volume to be Evacuated (Gallons) (5×6)

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER Equipment Blank

Consultant: LBG	Chrysler RFA Number:	Well# E10/498-1
PROJECT: Dayton Thermal Products	98-254-T	Date: 10/14/98
LOCATION: Dayton OH		Inspectors: DD/DGO
		Pump #:
		Bladder #:

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions

MONITORING

Instrument	Detector

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	Eh	Turbidity (NTU)	Depth to Water (ft)
8:30	Disposable Polyethylene bailer							
	Laboratory Supplied Pure Water							

1	2	3	4	5	6	7
Water Level to Top of Well Casing (ft)	Top of Casing to Bottom of Casing (ft)	Column of Standing Water in Well (ft) (2 minus 1)	Well Diameter Factor	Volume in Gallons (3×4)	Number of Well Volumes to be Evacuated	Total Volume to be Evacuated (Gallons) (5×6)

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER Equipment Blank

Consultant: LBG	Chrysler RFA Number:	Well# E101498-2
PROJECT: Dayton Thermal Products 98-254-T		Date: 10/14/98
LOCATION: Dayton OH		Inspectors: DD/DGO
		Pump #:
		Bladder #:

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions

MONITORING

Instrument	Detector

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	Eh	Turbidity (NTU)	Depth to Water (ft)
15:00	Disposable Polyethylene bailer							
	Laboratory Supplies Pure Water							

1	2	3	4	5	6	7
Water Level to Top of Well Casing (ft)	Top of Casing to Bottom of Casing (ft)	Column of Standing Water in Well (ft) (2 minus 1)	Well Diameter Factor	Volume in Gallons (3×4)	Number of Well Volumes to be Evacuated	Total Volume to be Evacuated (Gallons) (5×6)

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER Equipment Blank

Consultant: LBG	Chrysler RFA Number:	Well# E101598-3
PROJECT: Dayton Thermal Products 98-254-T		Date: 10/15/98
LOCATION: Dayton OH		Inspectors: DD/DGD
		Pump #:
		Bladder #:

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions

MONITORING

Instrument	Detector

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	Eh	Turbidity (NTU)	Depth to Water (ft)
8:17	Disposable	Polyethylene bailer						
	Laboratory Supplied Pure	water						

1	2	3	4	5	6	7
Water Level to Top of Well Casing (ft)	Top of Casing to Bottom of Casing (ft)	Column of Standing Water in Well (ft) (2 minus 1)	Well Diameter Factor	Volume in Gallons (3×4)	Number of Well Volumes to be Evacuated	Total Volume to be Evacuated (Gallons) (5×6)

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

Lancaster Laboratories
Where quality is a science.
Electronic Data Deliverables

EPA Region 5 Records Ctr.
350102

DEC 23 1999

10160 - DaimlerChrysler Corporation

SDG: DCC83 Dayton Thermal/Dayton, OH

Sample Reference List for EDD File C3289612.TXT

Laboratory Sample No.	Sample Description		Collected
3289612	WIPE001 Grab Wipe Sample	Site Code: SC001 RFA#: YGQP9900282A	12/10/99 15:50
3289613	BLANK Grab Wipe Sample	Site Code: SC001 RFA#: YGQP9900282	

Lancaster Laboratories
Where quality is a science.

DEC 23 1999

LLI Sample No. G5 3289612
Collected: 12/10/99 at 15:50 by MP

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGP9900282

Submitted: 12/11/99 Reported: 12/14/99
Discard: 02/13/00

WIPE001 Grab Wipe Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal/Dayton, OH
1WIPE SDG#: DCC83-01

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS
7512	PCBs in Wipes/Air			

See Page 2

1 COPY TO Leggette, Brashears & Graham ATTN: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300
02:57:20 D 0001 2 139950 695243
480 0.00 00016600 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER AGIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories is a subsidiary of Thermo TerraTech Inc., a Thermo Electron Company.
See reverse side for explanation of symbols and abbreviations.

Lancaster Laboratories
Where quality is a science.

LLI Sample No. G5 3289612
Collected: 12/10/99 at 15:50 by MP

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGP9900282

Submitted: 12/11/99 Reported: 12/14/99
Discard: 02/13/00

WIPE001 Grab Wipe Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal/Dayton, OH
1WIPE SDG#: DCC83-01

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS		METHOD DETECTION LIMIT	UNITS
PCBs in Wipes/Air					
7514	PCB-1016	N.D.		0.10	ug/wipe
7515	PCB-1221	N.D.		0.10	ug/wipe
7516	PCB-1232	N.D.		0.10	ug/wipe
7517	PCB-1242	N.D.		0.10	ug/wipe
7518	PCB-1248	N.D.		0.10	ug/wipe
7519	PCB-1254	0.37	J	0.10	ug/wipe
7520	PCB-1260	N.D.		0.10	ug/wipe

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

&&&

Analysis Repo

LABORATORY CHRONICLE

Lancaster Laboratories
Where quality is a science.

LLI Sample No. G5 3289612
Collected: 12/10/99 at 15:50 by MP

Submitted: 12/11/99

Account No: 10160
DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

WIPE001 Grab Wipe Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal/Dayton, OH
1WIPE SDG#: DCC83-01

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
0819	Solid Sample Pesticide Extract	SW-846 3550B	1		12/12/99 2315	Karen L. Beyer
7512	PCBs in Wipes/Air	SW-846 8082	1		12/13/99 1114	Douglas D. Seitz

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3289612
WIPE001 Grab Wipe Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal/Dayton, OH

Group No. 695243
DaimlerChrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
7512 PCBs in Wipes/Air		Batch: 993450005A									
7514 PCB-1016											
0.10	ug/wipe	N.D.					93	93	0	50	127
7515 PCB-1221											
0.10	ug/wipe	N.D.									
7516 PCB-1232											
0.10	ug/wipe	N.D.									
7517 PCB-1242											
0.10	ug/wipe	N.D.									
7518 PCB-1248											
0.10	ug/wipe	N.D.									
7519 PCB-1254											
0.10	ug/wipe	N.D.									
7520 PCB-1260											
0.10	ug/wipe	N.D.					95	95	0	57	120

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3289612
WIPE001 Grab Wipe Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal/Dayton, OH

Group No. 695243
DaimlerChrysler Corporation

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS LOW	HIGH
7512 PCBs in Wipes/Air		TCX	99	38	126
		DCB	94	40	149

Lancaster Laboratories
Where quality is a science.

DEC 23 1999

LLI Sample No. G5 3289613
Collected: by MP

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGP9900282

Submitted: 12/11/99 Reported: 12/14/99
Discard: 02/13/00

BLANK Grab Wipe Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal/Dayton, OH
BLANK SDG#: DCC83-02TB*

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS
7512	PCBs in Wipes/Air			

See Page 2

1 COPY TO Leggette, Brashears & Graham ATTN: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300
02:57:37 D 0001 2 139950 695243
480 0.00 00016600 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories is a subsidiary of Thermo TerraTech Inc., a Thermo Electron Company.
See reverse side for explanation of symbols and abbreviations.

Lancaster Laboratories
Where quality is a science.

LLI Sample No. G5 3289613
Collected: by MP

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGP9900282

Submitted: 12/11/99 Reported: 12/14/99
Discard: 02/13/00

BLANK Grab Wipe Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal/Dayton, OH
BLANK SDG#: DCC83-02TB*

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS
PCBs in Wipes/Air				
7514	PCB-1016	N.D.	0.10	ug/wipe
7515	PCB-1221	N.D.	0.10	ug/wipe
7516	PCB-1232	N.D.	0.10	ug/wipe
7517	PCB-1242	N.D.	0.10	ug/wipe
7518	PCB-1248	N.D.	0.10	ug/wipe
7519	PCB-1254	N.D.	0.10	ug/wipe
7520	PCB-1260	N.D.	0.10	ug/wipe

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

Lancaster Laboratories
Where quality is a science.

LLI Sample No. G5 3289613
Collected: by MP

Submitted: 12/11/99

Account No: 10160
DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

BLANK Grab Wipe Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal/Dayton, OH
BLANK SDG#: DCC83-02TB*

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
0819	Solid Sample Pesticide Extract	SW-846 3550B	1		12/12/99 2315	Karen L. Beyer
7512	PCBs in Wipes/Air	SW-846 8082	1		12/13/99 1134	Douglas D. Seitz

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3289613
BLANK Grab Wipe Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal/Dayton, OH

Group No. 695243
DaimlerChrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
7512 PCBs in Wipes/Air		Batch: 993450005A									
7514 PCB-1016											
0.10	ug/wipe	N.D.					93	93	0	50	127
7515 PCB-1221											
0.10	ug/wipe	N.D.									
7516 PCB-1232											
0.10	ug/wipe	N.D.									
7517 PCB-1242											
0.10	ug/wipe	N.D.									
7518 PCB-1248											
0.10	ug/wipe	N.D.									
7519 PCB-1254											
0.10	ug/wipe	N.D.									
7520 PCB-1260											
0.10	ug/wipe	N.D.					95	95	0	57	120

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3289613
BLANK Grab Wipe Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal/Dayton, OH

Group No. 695243
DaimlerChrysler Corporation

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS LOW	HIGH
7512 PCBs in Wipes/Air		TCX	96	38	126
		DCB	97	40	149

DAIMLERCHRYSLER — Chain-of-Custody

Sewer Cleanout

0662 B

acct 10160 #3289612-13

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17601 Phone Number: (717) 656-2300 Fax Number: (717) 656-2681	Project Name: Dayton Thermal Products Site Location: Dayton Ohio Site Code: SC001 RFA Number: YGQP99CO282 DaimlerChrysler PM: Gary Stanczuk	Consultant: Leggette Brashears + Graham Address: 1210 W. City Rd. E Suite 700 St. Paul MN 55112 Consultant PM Ken Vogel Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request: (circle)
- 24 calendar hrs.
- 48 calendar hrs.
- 7 calendar days
- 14 calendar days

Data Package Deliverables: (circle)
- DaimlerChrysler Level 1
- DaimlerChrysler Level 2
- CLP

Matrix Codes
S - Soil; SW - Surface Water; GW - Groundwater; A - Air; Sed - Sediment; O - Other (specify) wipe sample

Are aqueous samples field filtered for metals? Yes No

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	TCL PCB, 8082 4oz glass, Lexane								Remarks
WIPE001	12/10/99	1550	G	O	7	X								Wipe sample from building 50 seperator.

Note: Latex glove used for sampling also submitted just in case there are residual effects from the glove.

Sampler(s) Mike Plante	Cooler ID # D0802		Samples Relinquished under Airbill No. 813874857599		Temperature (corrected) 2 C
	Relinquished by: MPlante	Date: 12/10/99	Time: 1815	Received by:	Date: / Time: / Custody Seal Intact? Yes No
Is RFA sampling complete? Yes No	Relinquished by:	Date:	Time:	Received for Laboratory by:	Date: 12/11/99 Time: 1010 Custody Seal Intact? Yes No

282-A

DaimlerChrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Revision No. 3
Created: July 9, 1999

RFA 282 A

ID	DATESAMP	ANLYZD	RECVD	~~#~~ days to analyze	PARAMETEF	RESULT	QU.	UNITS	MATRIX	METHOD
WIPE001	12/10/1999	12/13/1999	12/11/1999	2	PCB-1016	0.1	U	UG/WIPE	WIPE	SW-846 8082
WIPE001	12/10/1999	12/13/1999	12/11/1999	2	PCB-1221	0.1	U	UG/WIPE	WIPE	SW-846 8082
WIPE001	12/10/1999	12/13/1999	12/11/1999	2	PCB-1232	0.1	U	UG/WIPE	WIPE	SW-846 8082
WIPE001	12/10/1999	12/13/1999	12/11/1999	2	PCB-1242	0.1	U	UG/WIPE	WIPE	SW-846 8082
WIPE001	12/10/1999	12/13/1999	12/11/1999	2	PCB-1248	0.1	U	UG/WIPE	WIPE	SW-846 8082
WIPE001	12/10/1999	12/13/1999	12/11/1999	2	PCB-1254	0.37	J	UG/WIPE	WIPE	SW-846 8082
WIPE001	12/10/1999	12/13/1999	12/11/1999	2	PCB-1260	0.1	U	UG/WIPE	WIPE	SW-846 8082

Lancaster Laboratories
Where quality is a science.

FAX Cover Page

Pages 3

CONFIDENTIAL MATERIAL

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law.

If received in error, please notify sender at once and return the original faxed transmission by U. S. Postal Service to the address indicated blow. Thank you.

2425 New Holland Pike
Lancaster, PA 17605-2425

Phone: 717-656-2300
Fax: 717-656-2681

Deliver to: Mr. Ken Vogel

Company: DAIMLERCHRYSLER CORPORATIO

Fax: 16514901006

From: Kathy Klinefelter Ext 1566

Message:

99-282
WIPE001
PCB's

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: G53289612 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 12/11/99 Date Reported: NOT REP
Date Collected: 12/10/99

WIPE001 Grab Wipe Sample
Site Code: SC001 RFA#: YGQF9900282
Dayton Thermal/Dayton, OH

	ANALYSIS NAME	RESULT		METHOD DETECTION LIMIT	UNITS
7512	PCBs in Wipes/Air				
7514	PCB-1016	N.D.		0.10	ug/wipe
7515	PCB-1221	N.D.		0.10	ug/wipe
7516	PCB-1232	N.D.		0.10	ug/wipe
7517	PCB-1242	N.D.		0.10	ug/wipe
7518	PCB-1248	N.D.		0.10	ug/wipe
7519	PCB-1254	0.37	J	0.10	ug/wipe
7520	PCB-1260	N.D.		0.10	ug/wipe

==========

Sample Number: G53289613 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 12/11/99 Date Reported: NOT REP
Date Collected:

BLANK Grab Wipe Sample
Site Code: SC001 RFA#: YGQF9900282
Dayton Thermal/Dayton, OH

	ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS
7512	PCBs in Wipes/Air			
7514	PCB-1016	N.D.	0.10	ug/wipe
7515	PCB-1221	N.D.	0.10	ug/wipe
7516	PCB-1232	N.D.	0.10	ug/wipe
7517	PCB-1242	N.D.	0.10	ug/wipe
7518	PCB-1248	N.D.	0.10	ug/wipe
7519	PCB-1254	N.D.	0.10	ug/wipe
7520	PCB-1260	N.D.	0.10	ug/wipe

==========

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: G53289613 Account: 10160 DAIMLERCHRYSLER CORPORATION

Lancaster Laboratories
Where quality is a science.
Electronic Data Deliverables

EPA Region 5 Records Ctr.
350103
FEB 14 2000

10160 - DaimlerChrysler Corporation

SDG: DCD31 Dayton Thermal Products/Dayton, OH

Sample Reference List for EDD File C3315632.TXT

Laboratory Sample No.	Sample Description		Collected
3315632	WS40I2 Grab Sludge Sample	Site Code: SC001 RFA#: YGQP9900282	01/31/00 10:45
3315633	Soil Storage Blank Grab Water Sample	Site Code: SC001 RFA#: YGQP9900282	02/01/00 10:00

Lancaster Laboratories
Where quality is a science.

FEB 14 2000

LLI Sample No. SW 3315632
Collected: 01/31/00 at 10:45 by DS

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900282

Submitted: 02/01/00 Reported: 02/09/00
Discard: 04/10/00

WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH
S40I2 SDG#: DCD31-01

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS		METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS		METHOD DETECTION LIMIT
6292	TCL by 8260 (soil)				See Page 3			
1651	Chromium	455.		3.9	mg/kg	601.		5.1
6935	Arsenic TR	50.7		1.3	mg/kg	66.8		1.6
6936	Selenium TR	17.8		2.3	mg/kg	23.4		3.0
6946	Barium TR	167.		0.25	mg/kg	220.		0.32
6949	Cadmium TR	N.D.		0.38	mg/kg	N.D.		0.50
6953	Copper TR	698.		0.90	mg/kg	921.		1.2
6955	Lead TR	71.4		2.7	mg/kg	94.2		3.5
6966	Silver TR	0.81	J	0.70	mg/kg	1.07	J	0.92
6972	Zinc TR	874.		1.7	mg/kg	1,150.		2.2
0159	Mercury	0.14		0.0025	mg/kg	0.19		0.0033
1225	TCL Pesticides in Solids				See Page 5			
1863	Appendix IX Herbicides in Soil				See Page 7			
4688	TCL SW846 Semivolatiles Soil				See Page 8			
4689	TCL SW846 Semivolatiles/Soil				See Page 9			
1123	Cyanide (Reactivity)	N.D.		96.	mg/kg			
0111	Moisture	24.2		0.50	% by wt.			
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.							
0394	pH	4.82		0.010				
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.							
0496	Corrosivity	See Below			See Below			
	Corrosivity: The pH of a 1:1 slurry (with deionized water) was 4.82 indicating that the waste is not corrosive. A waste is corrosive if it exhibits a pH equal to or less than 2 or equal to or greater than 12.5.							
0542	Ignitability	See Below			See Below			
	The sample did not spontaneously ignite when exposed to air or water. The sample did not ignite by friction. The sample vapors did not ignite when exposed to a flame using a closed cup apparatus.							
1121	Reactivity	See Below			See Below			

1 COPY TO Leggette, Brashears & Graham ATTN: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300
20:39:41 D 0001 2 140425 701029
890 25.00 00191300 ASR000

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories is a subsidiary of Thermo TerraTech Inc., a Thermo Electron Company.
See reverse side for explanation of symbols and abbreviations.

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 3315632
Collected: 01/31/00 at 10:45 by DS

Submitted: 02/01/00 Reported: 02/09/00
Discard: 04/10/00

WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH
S40I2 SDG#: DCD31-01

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900282

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS	METHOD DETECTION LIMIT
TCL by 8260 (soil)						
5444	Chloromethane	N.D.	13,000.	ug/kg	N.D.	16,000.
5446	Bromomethane	N.D.	19,000.	ug/kg	N.D.	25,000.
5445	Vinyl Chloride	N.D.	13,000.	ug/kg	N.D.	16,000.
5447	Chloroethane	N.D.	19,000.	ug/kg	N.D.	25,000.
5450	Methylene Chloride	N.D.	13,000.	ug/kg	N.D.	16,000.
6293	Acetone	N.D.	44,000.	ug/kg	N.D.	58,000.
6294	Carbon Disulfide	N.D.	19,000.	ug/kg	N.D.	25,000.
5449	1,1-Dichloroethene	N.D.	13,000.	ug/kg	N.D.	16,000.
5452	1,1-Dichloroethane	N.D.	6,300.	ug/kg	N.D.	8,200.
5455	Chloroform	N.D.	6,300.	ug/kg	N.D.	8,200.
5461	1,2-Dichloroethane	N.D.	13,000.	ug/kg	N.D.	16,000.
6296	2-Butanone	N.D.	44,000.	ug/kg	N.D.	58,000.
5457	1,1,1-Trichloroethane	N.D.	6,300.	ug/kg	N.D.	8,200.
5458	Carbon Tetrachloride	N.D.	6,300.	ug/kg	N.D.	8,200.
5465	Bromodichloromethane	N.D.	13,000.	ug/kg	N.D.	16,000.
5480	1,1,2,2-Tetrachloroethane	N.D.	6,300.	ug/kg	N.D.	8,200.
5463	1,2-Dichloropropane	N.D.	19,000.	ug/kg	N.D.	25,000.
6297	trans-1,3-Dichloropropene	N.D.	6,300.	ug/kg	N.D.	8,200.
5462	Trichloroethene	480,000.	6,300.	ug/kg	640,000.	8,200.
5470	Dibromochloromethane	N.D.	6,300.	ug/kg	N.D.	8,200.
5467	1,1,2-Trichloroethane	N.D.	13,000.	ug/kg	N.D.	16,000.
5460	Benzene	N.D.	6,300.	ug/kg	N.D.	8,200.
6298	cis-1,3-Dichloropropene	N.D.	6,300.	ug/kg	N.D.	8,200.
5478	Bromoform	N.D.	6,300.	ug/kg	N.D.	8,200.
6299	4-Methyl-2-pentanone	N.D.	19,000.	ug/kg	N.D.	25,000.
6300	2-Hexanone	N.D.	19,000.	ug/kg	N.D.	25,000.
5468	Tetrachloroethene	24,000,000.	130,000.	ug/kg	32,000,000.	160,000.
5466	Toluene	N.D.	6,300.	ug/kg	N.D.	8,200.
5472	Chlorobenzene	N.D.	6,300.	ug/kg	N.D.	8,200.
5474	Ethylbenzene	N.D.	6,300.	ug/kg	N.D.	8,200.
5477	Styrene	N.D.	6,300.	ug/kg	N.D.	8,200.
6301	Xylene (Total)	N.D.	6,300.	ug/kg	N.D.	8,200.
5451	trans-1,2-Dichloroethene	N.D.	13,000.	ug/kg	N.D.	16,000.
5454	cis-1,2-Dichloroethene	39,000.	13,000.	ug/kg	51,000.	16,000.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 3315632
Collected: 01/31/00 at 10:45 by DS

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900282

Submitted: 02/01/00 Reported: 02/09/00
Discard: 04/10/00

WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH
S40I2 SDG#: DCD31-01

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS	METHOD DETECTION LIMIT

TCL by 8260 (soil)

The GC/MS volatile analysis was performed according to the high level soil method due to the level of target compounds. The quantitation limits were therefore raised.

Poor surrogate recoveries were observed for the GC/MS volatile fraction due to the dilution needed to perform the analysis.

This analysis was performed at a 6250 times and at a 125,000 times dilution of the original sample.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories is a subsidiary of Thermo TerraTech Inc., a Thermo Electron Company.
See reverse side for explanation of symbols and abbreviations.

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 3315632
Collected: 01/31/00 at 10:45 by DS

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900282

Submitted: 02/01/00 Reported: 02/09/00
Discard: 04/10/00

WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH
S40I2 SDG#: DCD31-01

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS	METHOD DETECTION LIMIT
	Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of hydrogen cyanide exceeding 250 mg/kg or hydrogen sulfide exceeding 500 mg/kg. These interim threshold limits were established by the Solid Waste Branch of EPA, July, 1992. These results do not reflect total cyanide or total sulfide.					
1122	Sulfide (Reactivity)	N.D.	39.	mg/kg		

Trip Blank received broken at Lancaster Laboratories.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories is a subsidiary of Thermo TerraTech Inc., a Thermo Electron Company.
See reverse side for explanation of symbols and abbreviations.

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 3315632
Collected: 01/31/00 at 10:45 by DS

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900282

Submitted: 02/01/00 Reported: 02/09/00
Discard: 04/10/00

WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH
S40I2 SDG#: DCD31-01

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS	METHOD DETECTION LIMIT
TCL Pesticides in Solids						
1981	Alpha BHC	N.D.	34.	ug/kg	N.D.	44.
1982	Beta BHC	N.D.	34.	ug/kg	N.D.	44.
1983	Delta BHC	N.D.	34.	ug/kg	N.D.	44.
1218	Gamma BHC - Lindane	N.D.	34.	ug/kg	N.D.	44.
1219	Heptachlor	N.D.	34.	ug/kg	N.D.	44.
1220	Aldrin	N.D.	34.	ug/kg	N.D.	44.
1984	Heptachlor Epoxide	N.D.	34.	ug/kg	N.D.	44.
1989	Endosulfan I	N.D.	34.	ug/kg	N.D.	44.
1222	Dieldrin	N.D.	65.	ug/kg	N.D.	86.
1985	DDE	N.D.	65.	ug/kg	N.D.	86.
1223	Endrin	N.D.	65.	ug/kg	N.D.	86.
1990	Endosulfan II	N.D.	65.	ug/kg	N.D.	86.
1986	DDD	N.D.	65.	ug/kg	N.D.	86.
1991	Endosulfan Sulfate	N.D.	65.	ug/kg	N.D.	86.
1221	DDT	N.D.	65.	ug/kg	N.D.	86.
3017	Endrin Ketone	N.D.	65.	ug/kg	N.D.	86.
1859	Methoxychlor	N.D.	340.	ug/kg	N.D.	440.
3025	Alpha Chlordane	N.D.	34.	ug/kg	N.D.	44.
3026	Gamma Chlordane	N.D.	34.	ug/kg	N.D.	44.
1988	Toxaphene	N.D.	3,400.	ug/kg	N.D.	4,400.
1992	Endrin Aldehyde	N.D.	65.	ug/kg	N.D.	86.
1993	PCB-1016	N.D.	1,700.	ug/kg	N.D.	2,200.
1994	PCB-1221	N.D.	3,900.	ug/kg	N.D.	5,100.
1995	PCB-1232	N.D.	1,700.	ug/kg	N.D.	2,200.
1996	PCB-1242	N.D.	1,700.	ug/kg	N.D.	2,200.
1997	PCB-1248	N.D.	1,700.	ug/kg	N.D.	2,200.
1998	PCB-1254	39,000.	1,700.	ug/kg	51,000.	2,200.
1999	PCB-1260	N.D.	1,700.	ug/kg	N.D.	2,200.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 3315632
Collected: 01/31/00 at 10:45 by DS

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900282

Submitted: 02/01/00 Reported: 02/09/00
Discard: 04/10/00

WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH
S40I2 SDG#: DCD31-01

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS	METHOD DETECTION LIMIT

TCL Pesticides in Solids

The blank associated with this sample contained beta-BHC at 0.17ug/kg, delta-BHC at 0.25ug/kg and endosulfan I at 0.10ug/kg. The MS/MSD were not spiked for single component analytes. DDT and methoxychlor were outside of QC limits in the LCS. None of the above listed components were detected in the sample.

Due to interfering peaks on the chromatogram, the values reported represent the lowest quantitation limits obtainable.
Despite numerous cleanup methods, we were unable to reach our usual quantitation limits.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 3315632
Collected: 01/31/00 at 10:45 by DS

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900282

Submitted: 02/01/00 Reported: 02/09/00
Discard: 04/10/00

WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH
S40I2 SDG#: DCD31-01

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS	METHOD DETECTION LIMIT
Appendix IX Herbicides in Soil						
4174	2,4-D	N.D.	330.	ug/kg	N.D.	440.
4175	Dinoseb	N.D.	380.	ug/kg	N.D.	500.
4176	2,4,5-TP (Silvex)	N.D.	33.	ug/kg	N.D.	44.
4177	2,4,5-T	N.D.	33.	ug/kg	N.D.	44.

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The Limits of Quantitation (LOQ's) were raised accordingly.

Due to the dilution required for analysis, accurate surrogate and spike recoveries could not be determined.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 3315632
Collected: 01/31/00 at 10:45 by DS

Submitted: 02/01/00 Reported: 02/09/00
Discard: 04/10/00

WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH
S40I2 SDG#: DCD31-01

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900282

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS		METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS		METHOD DETECTION LIMIT
TCL SW846 Semivolatiles Soil								
1185	Phenol	N.D.		670.	ug/kg	N.D.		880.
3753	bis(2-Chloroethyl)ether	N.D.		330.	ug/kg	N.D.		440.
1186	2-Chlorophenol	N.D.		330.	ug/kg	N.D.		440.
3754	1,3-Dichlorobenzene	N.D.		330.	ug/kg	N.D.		440.
1187	1,4-Dichlorobenzene	N.D.		330.	ug/kg	N.D.		440.
3755	1,2-Dichlorobenzene	N.D.		330.	ug/kg	N.D.		440.
4690	2-Methylphenol	N.D.		330.	ug/kg	N.D.		440.
4691	2,2'-oxybis(1-Chloropropane)	N.D.		330.	ug/kg	N.D.		440.
4692	4-Methylphenol	N.D.		670.	ug/kg	N.D.		880.
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
1188	N-Nitroso-di-n-propylamine	N.D.		330.	ug/kg	N.D.		440.
3757	Hexachloroethane	N.D.		330.	ug/kg	N.D.		440.
3758	Nitrobenzene	N.D.		330.	ug/kg	N.D.		440.
3759	Isophorone	N.D.		330.	ug/kg	N.D.		440.
3746	2-Nitrophenol	N.D.		670.	ug/kg	N.D.		880.
3747	2,4-Dimethylphenol	N.D.		670.	ug/kg	N.D.		880.
3760	bis(2-Chloroethoxy)methane	N.D.		670.	ug/kg	N.D.		880.
3748	2,4-Dichlorophenol	N.D.		670.	ug/kg	N.D.		880.
1189	1,2,4-Trichlorobenzene	N.D.		330.	ug/kg	N.D.		440.
3761	Naphthalene	2,300.	J	330.	ug/kg	3,000.	J	440.
4693	4-Chloroaniline	N.D.		670.	ug/kg	N.D.		880.
3762	Hexachlorobutadiene	N.D.		670.	ug/kg	N.D.		880.
1190	4-Chloro-3-methylphenol	N.D.		670.	ug/kg	N.D.		880.
4694	2-Methylnaphthalene	5,600.		330.	ug/kg	7,400.		440.
3763	Hexachlorocyclopentadiene	N.D.		1,700.	ug/kg	N.D.		2,200.
3749	2,4,6-Trichlorophenol	N.D.		670.	ug/kg	N.D.		880.
4695	2,4,5-Trichlorophenol	N.D.		670.	ug/kg	N.D.		880.
3764	2-Chloronaphthalene	N.D.		330.	ug/kg	N.D.		440.
4696	2-Nitroaniline	N.D.		670.	ug/kg	N.D.		880.
3766	Dimethylphthalate	N.D.		670.	ug/kg	N.D.		880.
3765	Acenaphthylene	890.	J	330.	ug/kg	1,200.	J	440.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Charles J. Neslund, B.S.
Group Leader, GC/MS SVOA

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories is a subsidiary of Thermo TerraTech Inc., a Thermo Electron Company.
See reverse side for explanation of symbols and abbreviations.

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 3315632
Collected: 01/31/00 at 10:45 by DS

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900282

Submitted: 02/01/00 Reported: 02/09/00
Discard: 04/10/00

WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH
S40I2 SDG#: DCD31-01

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS		METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS		METHOD DETECTION LIMIT
TCL SW846 Semivolatiles/Soil								
4697	3-Nitroaniline	N.D.		670.	ug/kg	N.D.		880.
1191	Acenaphthene	630.	J	330.	ug/kg	820.	J	440.
3750	2,4-Dinitrophenol	N.D.		6,700.	ug/kg	N.D.		8,800.
1192	4-Nitrophenol	N.D.		1,700.	ug/kg	N.D.		2,200.
4698	Dibenzofuran	700.	J	330.	ug/kg	920.	J	440.
1193	2,4-Dinitrotoluene	N.D.		330.	ug/kg	N.D.		440.
3767	2,6-Dinitrotoluene	N.D.		330.	ug/kg	N.D.		440.
3770	Diethylphthalate	N.D.		670.	ug/kg	N.D.		880.
3769	4-Chlorophenyl-phenylether	N.D.		330.	ug/kg	N.D.		440.
3768	Fluorene	1,300.	J	330.	ug/kg	1,800.	J	440.
4700	4-Nitroaniline	N.D.		670.	ug/kg	N.D.		880.
3751	4,6-Dinitro-2-methylphenol	N.D.		1,700.	ug/kg	N.D.		2,200.
3772	N-Nitrosodiphenylamine	N.D.		330.	ug/kg	N.D.		440.
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
3773	4-Bromophenyl-phenylether	N.D.		330.	ug/kg	N.D.		440.
3774	Hexachlorobenzene	N.D.		330.	ug/kg	N.D.		440.
1194	Pentachlorophenol	N.D.		1,700.	ug/kg	N.D.		2,200.
3775	Phenanthrene	5,400.		330.	ug/kg	7,100.		440.
3776	Anthracene	940.	J	330.	ug/kg	1,200.	J	440.
4702	Carbazole	N.D.		670.	ug/kg	N.D.		880.
3777	Di-n-butylphthalate	1,100.	J	670.	ug/kg	1,500.	J	880.
3778	Fluoranthene	3,500.		330.	ug/kg	4,600.		440.
1195	Pyrene	4,100.		330.	ug/kg	5,400.		440.
3780	Butylbenzylphthalate	N.D.		670.	ug/kg	N.D.		880.
3783	3,3'-Dichlorobenzidine	N.D.		670.	ug/kg	N.D.		880.
3781	Benzo(a)anthracene	3,100.	J	330.	ug/kg	4,100.	J	440.
3784	bis(2-Ethylhexyl)phthalate	12,000.		670.	ug/kg	15,000.		880.
3782	Chrysene	3,800.		330.	ug/kg	5,000.		440.
3785	Di-n-octylphthalate	N.D.		670.	ug/kg	N.D.		880.
3786	Benzo(b)fluoranthene	4,300.		330.	ug/kg	5,700.		440.
3787	Benzo(k)fluoranthene	1,900.	J	330.	ug/kg	2,500.	J	440.
3788	Benzo(a)pyrene	3,100.	J	330.	ug/kg	4,100.	J	440.
3789	Indeno(1,2,3-cd)pyrene	N.D.		330.	ug/kg	N.D.		440.
3790	Dibenz(a,h)anthracene	N.D.		330.	ug/kg	N.D.		440.
3791	Benzo(g,h,i)perylene	N.D.		330.	ug/kg	N.D.		440.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Charles J. Neslund, B.S.
Group Leader, GC/MS SVOA

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 3315632
Collected: 01/31/00 at 10:45 by DS

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900282

Submitted: 02/01/00 Reported: 02/09/00
Discard: 04/10/00

WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH
S40I2 SDG#: DCD31-01

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS	METHOD DETECTION LIMIT

TCL SW846 Semivolatiles/Soil

The usual quantitation limits could not be attained due to the matrix of the sample or interferences observed in the GC/MS semivolatile analysis.

The GC/MS semivolatile surrogate recoveries were outside of QC limits. The matrix spike and matrix spike duplicate samples were analyzed and surrogate recoveries were again outside of QC limits, indicating a significant matrix effect.

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Bis(2-ethylhexyl)phthalate and Di-n-butylphthalate were detected in the method blank at concentrations of 7600 ug/kg and 5100 ug/kg respectively. The blank results were not subtracted from the analytical results.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Charles J. Neslund, B.S.
Group Leader, GC/MS SVOA

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 3315632
Collected: 01/31/00 at 10:45 by DS

Submitted: 02/01/00

Account No: 10160
DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH
S40I2 SDG#: DCD31-01

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
6292	TCL by 8260 (soil)	SW-846 8260B	1		02/03/00 0405	Kelly L. Hoffer
1651	Chromium	SW-846 6010B	1		02/03/00 0950	Jennifer Garrett
5708	SW SW846 ICP Digest	SW-846 3050B	1		02/02/00 0922	Rebekah K. Fox
6935	Arsenic TR	SW-846 6010B	1		02/03/00 0950	Jennifer Garrett
6936	Selenium TR	SW-846 6010B	1		02/03/00 2143	Brenda A. Weaver
6946	Barium TR	SW-846 6010B	1		02/03/00 0950	Jennifer Garrett
6949	Cadmium TR	SW-846 6010B	1		02/03/00 0950	Jennifer Garrett
6953	Copper TR	SW-846 6010B	1		02/03/00 0950	Jennifer Garrett
6955	Lead TR	SW-846 6010B	1		02/03/00 0950	Jennifer Garrett
6966	Silver TR	SW-846 6010B	1		02/03/00 0950	Jennifer Garrett
6972	Zinc TR	SW-846 6010B	1		02/03/00 0950	Jennifer Garrett
0159	Mercury	SW-846 7471A	1		02/02/00 1813	Nelli S. Markaryan
5711	SW SW846 Hg Digest	SW-846 7471A modified	1		02/02/00 1248	Rebekah K. Fox
0819	Solid Sample Pesticide Extract	SW-846 3550B	1		02/01/00 2200	Karen L. Beyer
1225	TCL Pesticides in Solids	SW-846 8081A/8082	1		02/03/00 1420	Douglas D. Seitz
1863	Appendix IX Herbicides in Soil	SW-846 8151A	1		02/03/00 1203	Carolyn J. Koch
4181	Herbicide Soil Extraction	SW-846 3550B/8151A	1		02/02/00 0715	Joseph S. Feister
0381	BNA Soil Extraction	SW-846 3550B	1		02/01/00 2215	Karen L. Beyer
4688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1		02/02/00 1314	Teresa A. Petree
4689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1		02/02/00 1314	Teresa A. Petree
1123	Cyanide (Reactivity)	SW-846 9012	1		02/01/00 1636	Mark A. Buckwalter
0111	Moisture	EPA 160.3 modified	1		02/01/00 1920	Gabriel Agosto
0394	pH	SW-846 9045C (modified)	1		02/02/00 2015	Luz M. Groff
0542	Ignitability	40 CFR 261.21	1		02/02/00 1020	Catherine L. Cammauf
1121	Reactivity	SW-846 Chapter 7.3	1		02/01/00 0830	Susan E. Hibner
1122	Sulfide (Reactivity)	SW-846 9034	1		02/01/00 0830	Susan E. Hibner

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3315632
WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH

Group No. 701029
DaimlerChrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
6292 TCL by 8260 (soil)		Batch: R000191AG									
5444 Chloromethane											
13,000.	ug/kg	N.D.		79	81	4	83			47	143
5446 Bromomethane											
19,000.	ug/kg	N.D.		105	108	3	102			35	146
5445 Vinyl Chloride											
13,000.	ug/kg	N.D.		72	80	11	75			64	129
5447 Chloroethane											
19,000.	ug/kg	N.D.		57	58	1	54			29	148
5450 Methylene Chloride											
13,000.	ug/kg	N.D.		133	135	1	123			71	135
6293 Acetone											
44,000.	ug/kg	N.D.		119	116	2	109			53	142
6294 Carbon Disulfide											
19,000.	ug/kg	N.D.		99	106	6	101			52	135
5449 1,1-Dichloroethene											
13,000.	ug/kg	N.D.		110	118	7	101			68	154
5452 1,1-Dichloroethane											
6,300.	ug/kg	N.D.		131	129	2	119			82	127
5455 Chloroform											
6,300.	ug/kg	N.D.		118	120	2	111			82	121
5461 1,2-Dichloroethane											
13,000.	ug/kg	N.D.		123	121	2	114			79	123
6296 2-Butanone											
44,000.	ug/kg	N.D.		112	110	2	105			57	142
5457 1,1,1-Trichloroethane											
6,300.	ug/kg	N.D.		111	111	0	104			81	130
5458 Carbon Tetrachloride											
6,300.	ug/kg	N.D.		102	106	4	97			79	131
5465 Bromodichloromethane											
13,000.	ug/kg	N.D.		114	116	2	107			82	120
5480 1,1,2,2-Tetrachloroethane											
6,300.	ug/kg	N.D.		207	211	2	109			61	137
5463 1,2-Dichloropropane											
19,000.	ug/kg	N.D.		122	122	0	109			78	125
6297 trans-1,3-Dichloropropene											
6,300.	ug/kg	N.D.		104	106	2	99			80	122
5462 Trichloroethene											
6,300.	ug/kg	N.D.		111	113	1	104			84	130
5470 Dibromochloromethane											
6,300.	ug/kg	N.D.		101	102	0	96			83	118
5467 1,1,2-Trichloroethane											
13,000.	ug/kg	N.D.		111	118	6	108			83	122
5460 Benzene											
6,300.	ug/kg	N.D.		117	116	1	108			82	125
6298 cis-1,3-Dichloropropene											
6,300.	ug/kg	N.D.		112	113	1	103			80	121

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3315632
WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH

Group No. 701029
DaimlerChrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
5478 Bromoform											
6,300.	ug/kg	N.D.		87	85	2	81			75	122
6299 4-Methyl-2-pentanone											
19,000.	ug/kg	N.D.		146	108	29	100			53	139
6300 2-Hexanone											
19,000.	ug/kg	N.D.		98	96	3	96			55	138
5468 Tetrachloroethene											
130,000.	ug/kg	N.D.		95	99	4	91			76	146
5466 Toluene											
6,300.	ug/kg	N.D.		106	106	0	104			84	125
5472 Chlorobenzene											
6,300.	ug/kg	N.D.		107	107	1	103			86	124
5474 Ethylbenzene											
6,300.	ug/kg	N.D.		-7552	-7544 (2)	4	102			85	126
5477 Styrene											
6,300.	ug/kg	N.D.		107	109	2	102			86	125
6301 Xylene (Total)											
6,300.	ug/kg	N.D.		(6)	(6) (2)	6	104			87	126
5451 trans-1,2-Dichloroethene											
13,000.	ug/kg	N.D.		119	121	2	112			74	137
5454 cis-1,2-Dichloroethene											
13,000.	ug/kg	N.D.		123	118	4	112			86	125
1651 Chromium		Batch: 000335708002									
3.9	mg/kg	N.D.	3	-115	267 (2)	16	105			70	130
6935 Arsenic TR		Batch: 000335708002									
1.3	mg/kg	N.D.	3	89	98	7	101			71	130
6936 Selenium TR		Batch: 000335708002									
2.3	mg/kg	N.D.	0 (1)	99	101	1	101			74	126
6946 Barium TR		Batch: 000335708002									
0.25	mg/kg	0.078 J mg/kg	9	165	103	29	106			77	123
6949 Cadmium TR		Batch: 000335708002									
0.38	mg/kg	N.D.	0 (1)	0	0	0	102			77	123
6953 Copper TR		Batch: 000335708002									
0.90	mg/kg	0.19 J mg/kg	28	800	437 (2)	11	103			82	118
6955 Lead TR		Batch: 000335708002									
2.7	mg/kg	N.D.	26	90	119	12	100			76	124
6966 Silver TR		Batch: 000335708002									
0.70	mg/kg	N.D.	0 (1)	103	99	3	106			74	126
6972 Zinc TR		Batch: 000335708002									
1.7	mg/kg	0.42 J mg/kg	1	-301	-76 (2)	14	101			73	127
0159 Mercury		Batch: 000335711001									
0.0025	mg/kg	N.D.	0 (1)	78	99	12	98			64	135
1225 TCL Pesticides in Solids		Batch: 000320011A									
1981 Alpha BHC											
34.	ug/kg	N.D.					119			38	156
1982 Beta BHC											
34.	ug/kg	0.170 J ug/kg					108			40	153

(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

(6) Matrix interferences within the sample has caused the Recovery Percent of the MS and/or MSD to exceed 10,000%.

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3315632
WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH

Group No. 701029
DaimlerChrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
1983 Delta BHC											
34.	ug/kg	0.249 J ug/kg					142			44	145
1218 Gamma BHC - Lindane											
34.	ug/kg	N.D.					111			51	142
1219 Heptachlor											
34.	ug/kg	N.D.					109			59	140
1220 Aldrin											
34.	ug/kg	N.D.					102			55	132
1984 Heptachlor Epoxide											
34.	ug/kg	N.D.					103			58	129
1989 Endosulfan I											
34.	ug/kg	0.100 J ug/kg					91			56	123
1222 Dieldrin											
65.	ug/kg	N.D.					92			63	133
1985 DDE											
65.	ug/kg	N.D.					127			47	159
1223 Endrin											
65.	ug/kg	N.D.					118			70	150
1990 Endosulfan II											
65.	ug/kg	N.D.					106			46	138
1986 DDD											
65.	ug/kg	N.D.					165			53	141
1991 Endosulfan Sulfate											
65.	ug/kg	N.D.					107			40	150
1221 DDT											
65.	ug/kg	N.D.					137			60	138
3017 Endrin Ketone											
65.	ug/kg	N.D.					100			62	137
1859 Methoxychlor											
340.	ug/kg	N.D.					39			52	174
3025 Alpha Chlordane											
34.	ug/kg	N.D.					109			68	141
3026 Gamma Chlordane											
34.	ug/kg	N.D.					98			65	129
1988 Toxaphene											
3,400.	ug/kg	N.D.									
1992 Endrin Aldehyde											
65.	ug/kg	N.D.					110			36	140
1993 PCB-1016											
1,700.	ug/kg	N.D.									
1994 PCB-1221											
3,900.	ug/kg	N.D.									
1995 PCB-1232											
1,700.	ug/kg	N.D.									
1996 PCB-1242											
1,700.	ug/kg	N.D.									
1997 PCB-1248											
1,700.	ug/kg	N.D.									
1998 PCB-1254											
1,700.	ug/kg	N.D.									

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3315632
WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH

Group No. 701029
DaimlerChrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
1999 PCB-1260											
1,700.	ug/kg	N.D.									
1863 Appendix IX Herbicides in Soil		Batch: 000320012A									
4174 2,4-D											
330.	ug/kg	N.D.		0	0	0	104			41	151
4175 Dinoseb											
380.	ug/kg	N.D.		0	0	0	15			1	36
4176 2,4,5-TP (Silvex)											
33.	ug/kg	N.D.		0	29	200	111			37	160
4177 2,4,5-T											
33.	ug/kg	N.D.		294	269	9	120			37	158
4688 TCL SW846 Semivolatiles Soil		Batch: 00032SLA026									
1185 Phenol											
670.	ug/kg	N.D.		111	103	7	98			40	128
3753 bis(2-Chloroethyl)ether											
330.	ug/kg	N.D.		120	111	8	87			38	131
1186 2-Chlorophenol											
330.	ug/kg	N.D.		82	80	3	94			44	127
3754 1,3-Dichlorobenzene											
330.	ug/kg	N.D.		77	74	3	75			31	121
1187 1,4-Dichlorobenzene											
330.	ug/kg	N.D.		76	77	1	77			36	119
3755 1,2-Dichlorobenzene											
330.	ug/kg	N.D.		75	72	4	80			39	120
4690 2-Methylphenol											
330.	ug/kg	N.D.		103	95	8	95			42	127
4691 2,2'-oxybis(1-Chloropropane)											
330.	ug/kg	N.D.		121	121	0	106			38	151
4692 4-Methylphenol											
670.	ug/kg	N.D.		101	100	1	97			33	139
1188 N-Nitroso-di-n-propylamine											
330.	ug/kg	N.D.		425	399	6	97			39	142
3757 Hexachloroethane											
330.	ug/kg	N.D.		832	788	5	80			29	128
3758 Nitrobenzene											
330.	ug/kg	N.D.		103	78	27	89			42	131
3759 Isophorone											
330.	ug/kg	N.D.		265	258	3	92			46	130
3746 2-Nitrophenol											
670.	ug/kg	N.D.		42	33	26	93			36	141
3747 2,4-Dimethylphenol											
670.	ug/kg	N.D.		115	121	5	94			40	132
3760 bis(2-Chloroethoxy)methane											
670.	ug/kg	N.D.		89	89	0	89			44	127
3748 2,4-Dichlorophenol											
670.	ug/kg	N.D.		87	91	4	96			41	128

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3315632
WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH

Group No. 701029
DaimlerChrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
1189 1,2,4-Trichlorobenzene											
330.	ug/kg	N.D.		80	82	3	84			44	121
3761 Naphthalene											
330.	ug/kg	N.D.		70	67	2	85			34	133
4693 4-Chloroaniline											
670.	ug/kg	N.D.		0	0	0	29			1	113
3762 Hexachlorobutadiene											
670.	ug/kg	N.D.		78	77	2	82			39	133
1190 4-Chloro-3-methylphenol											
670.	ug/kg	N.D.		83	90	8	99			47	135
4694 2-Methylnaphthalene											
330.	ug/kg	N.D.		54	54	0	89			43	131
3763 Hexachlorocyclopentadiene											
1,700.	ug/kg	N.D.		0	0	0	75			1	141
3749 2,4,6-Trichlorophenol											
670.	ug/kg	N.D.		104	97	6	97			39	141
4695 2,4,5-Trichlorophenol											
670.	ug/kg	N.D.		85	91	7	96			45	136
3764 2-Chloronaphthalene											
330.	ug/kg	N.D.		94	88	7	87			48	127
4696 2-Nitroaniline											
670.	ug/kg	N.D.		100	83	19	88			25	139
3766 Dimethylphthalate											
670.	ug/kg	N.D.		100	99	1	99			53	127
3765 Acenaphthylene											
330.	ug/kg	N.D.		73	69	4	87			44	126
4689 TCL SW846 Semivolatiles/Soil		Batch: 00032SLA026									
4697 3-Nitroaniline											
670.	ug/kg	N.D.		69	66	6	44			18	117
1191 Acenaphthene											
330.	ug/kg	N.D.		83	77	6	89			47	127
3750 2,4-Dinitrophenol											
6,700.	ug/kg	N.D.		0	0	0	80			1	133
1192 4-Nitrophenol											
1,700.	ug/kg	N.D.		304	137	76	101			31	161
4698 Dibenzofuran											
330.	ug/kg	N.D.		78	79	2	91			53	125
1193 2,4-Dinitrotoluene											
330.	ug/kg	N.D.		70	56	22	93			50	131
3767 2,6-Dinitrotoluene											
330.	ug/kg	N.D.		102	79	25	94			53	130
3770 Diethylphthalate											
670.	ug/kg	N.D.		98	97	0	99			54	130
3769 4-Chlorophenyl-phenylether											
330.	ug/kg	N.D.		86	86	0	94			47	132
3768 Fluorene											
330.	ug/kg	N.D.		76	76	0	91			42	142

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3315632
WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH

Group No. 701029
DaimlerChrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK		DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
4700 4-Nitroaniline												
670.	ug/kg	N.D.			34	43	22	79			30	127
3751 4,6-Dinitro-2-methylphenol												
1,700.	ug/kg	N.D.			70	86	20	83			14	143
3772 N-Nitrosodiphenylamine												
330.	ug/kg	N.D.			161	172	6	96			49	130
3773 4-Bromophenyl-phenylether												
330.	ug/kg	N.D.			103	95	7	98			53	132
3774 Hexachlorobenzene												
330.	ug/kg	N.D.			77	78	1	100			40	144
1194 Pentachlorophenol												
1,700.	ug/kg	N.D.			108	87	22	92			20	132
3775 Phenanthrene												
330.	ug/kg	N.D.			69	59	5	95			42	141
3776 Anthracene												
330.	ug/kg	N.D.			83	76	6	96			45	132
4702 Carbazole												
670.	ug/kg	N.D.			98	98	0	97			48	129
3777 Di-n-butylphthalate												
670.	ug/kg	5,100.	ug/kg		81	80	2	108			54	133
3778 Fluoranthene												
330.	ug/kg	N.D.			68	57	7	94			37	142
1195 Pyrene												
330.	ug/kg	N.D.			74	61	6	100			34	145
3780 Butylbenzylphthalate												
670.	ug/kg	N.D.			176	174	1	103			47	138
3783 3,3'-Dichlorobenzidine												
670.	ug/kg	N.D.			56	49	13	44			2	132
3781 Benzo(a)anthracene												
330.	ug/kg	N.D.			89	68	12	94			44	133
3784 bis(2-Ethylhexyl)phthalate												
670.	ug/kg	7,600.	ug/kg		51	52	0	112			41	145
3782 Chrysene												
330.	ug/kg	N.D.			92	84	4	96			42	136
3785 Di-n-octylphthalate												
670.	ug/kg	2,300.	ug/kg		72	124	53	121			43	156
3786 Benzo(b)fluoranthene												
330.	ug/kg	N.D.			59	42	10	93			35	140
3787 Benzo(k)fluoranthene												
330.	ug/kg	N.D.			68	69	0	98			38	145
3788 Benzo(a)pyrene												
330.	ug/kg	N.D.			-6	54	51	97			38	141
3789 Indeno(1,2,3-cd)pyrene												
330.	ug/kg	N.D.			160	173	8	93			30	153
3790 Dibenz(a,h)anthracene												
330.	ug/kg	N.D.			106	122	14	94			32	151
3791 Benzo(g,h,i)perylene												
330.	ug/kg	N.D.			170	183	8	91			29	151
1123 Cyanide (Reactivity)		Batch: 00032104101										
96.	mg/kg	N.D.			3	3	0	108			88	121

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3315632
WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH

Group No. 701029
DaimlerChrysler Corporation

	SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
0111 Moisture			Batch: 000320091820004A									
	0.50	% by wt.		0				100	100	0	99	101
0394 pH			Batch: 000330239039400A									
	0.010			0				101	101	0	98	102
0542 Ignitability			Batch: 000330286054200A									
1121 Reactivity			Batch: 000320416112100A									
	see below											
1122 Sulfide (Reactivity)			Batch: 000320416112100A									
	39.	mg/kg	N.D.		83	74	11	88			80	120

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3315632
WS40I2 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH

Group No. 701029
DaimlerChrysler Corporation

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS LOW	HIGH
1225 TCL Pesticides in Solids	TCX	0	30	163
	DCB	464	42	184
1863 Appendix IX Herbicides in Soil	DCAA	0	26	169
4688 TCL SW846 Semivolatiles Soil	Phenol-d6	99	47	127
	2-Flphenol	90	47	126
	2,4,6-TBP	88	36	150
4689 TCL SW846 Semivolatiles/Soil	Nitrobz-d5	239	45	128
	2-Fbiphnyl	78	49	123
	Tphenyld14	95	40	146
6292 TCL by 8260 (soil)	DBFM	104	80	120
	d4-1,2-DCA	72	80	120
	d8-toluene	94	81	117
	4-BFB	99	74	121

Lancaster Laboratories
Where quality is a science.

FEB 14 2000

LLI Sample No. WW 3315633
Collected: 02/01/00 at 10:00 by LAB

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900282

Submitted: 02/01/00 Reported: 02/09/00
Discard: 04/10/00

Soil Storage Blank Grab Water Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH
SBDAY SDG#: DCD31-02SB*

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS
6291	TCL by 8260 (water)			

See Page 2

1 COPY TO Leggette, Brashears & Graham ATTN: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300
20:42:13 D 0001 2 140425 701029
890 0.00 00000000 ASR000

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories is a subsidiary of Thermo TerraTech Inc., a Thermo Electron Company.
See reverse side for explanation of symbols and abbreviations.

Lancaster Laboratories
Where quality is a science.

LLI Sample No. WW 3315633
Collected: 02/01/00 at 10:00 by LAB

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900282

Submitted: 02/01/00 Reported: 02/09/00
Discard: 04/10/00

Soil Storage Blank Grab Water Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH
SBDAY SDG#: DCD31-02SB*

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS		METHOD DETECTION LIMIT	UNITS
TCL by 8260 (water)					
5385	Chloromethane	N.D.		3.	ug/l
5387	Bromomethane	N.D.		3.	ug/l
5386	Vinyl Chloride	N.D.		2.	ug/l
5388	Chloroethane	N.D.		3.	ug/l
5391	Methylene Chloride	N.D.		2.	ug/l
6302	Acetone	7.	J	6.	ug/l
6303	Carbon Disulfide	N.D.		3.	ug/l
5390	1,1-Dichloroethene	N.D.		1.	ug/l
5393	1,1-Dichloroethane	N.D.		2.	ug/l
5396	Chloroform	N.D.		1.	ug/l
5402	1,2-Dichloroethane	N.D.		2.	ug/l
6305	2-Butanone	N.D.		3.	ug/l
5398	1,1,1-Trichloroethane	N.D.		1.	ug/l
5399	Carbon Tetrachloride	N.D.		1.	ug/l
5406	Bromodichloromethane	N.D.		1.	ug/l
5421	1,1,2,2-Tetrachloroethane	N.D.		2.	ug/l
5404	1,2-Dichloropropane	N.D.		1.	ug/l
6306	trans-1,3-Dichloropropene	N.D.		1.	ug/l
5403	Trichloroethene	N.D.		1.	ug/l
5411	Dibromochloromethane	N.D.		2.	ug/l
5408	1,1,2-Trichloroethane	N.D.		2.	ug/l
5401	Benzene	N.D.		1.	ug/l
6307	cis-1,3-Dichloropropene	N.D.		1.	ug/l
5419	Bromoform	N.D.		1.	ug/l
6308	4-Methyl-2-pentanone	N.D.		5.	ug/l
6309	2-Hexanone	N.D.		7.	ug/l
5409	Tetrachloroethene	N.D.		1.	ug/l
5407	Toluene	N.D.		2.	ug/l
5413	Chlorobenzene	N.D.		1.	ug/l
5415	Ethylbenzene	N.D.		2.	ug/l
5418	Styrene	N.D.		1.	ug/l
6310	Xylene (Total)	N.D.		1.	ug/l
5392	trans-1,2-Dichloroethene	N.D.		2.	ug/l
5395	cis-1,2-Dichloroethene	N.D.		2.	ug/l

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

&&&

Analysis Report

LABORATORY CHRONICLE

Lancaster Laboratories
Where quality is a science.

LLI Sample No. WW 3315633
Collected: 02/01/00 at 10:00 by LAB

Submitted: 02/01/00

Account No: 10160
DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

Soil Storage Blank Grab Water Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH
SBDAY SDG#: DCD31-02SB*

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
6291	TCL by 8260 (water)	SW-846 8260B	1		02/03/00 1356	Jason P. Pisarcik

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3315633
Soil Storage Blank Grab Water Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH

Group No. 701029
DaimlerChrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
6291 TCL by 8260 (water)		Batch: P000341AB									
5385 Chloromethane											
3.	ug/l	N.D.		115	126	9	84	89	6	57	143
5387 Bromomethane											
3.	ug/l	N.D.		87	101	15	63	54	15	17	129
5386 Vinyl Chloride											
2.	ug/l	N.D.		110	119	8	92	94	3	63	140
5388 Chloroethane											
3.	ug/l	N.D.		112	123	9	77	60	25	24	133
5391 Methylene Chloride											
2.	ug/l	N.D.		121	118	3	107	107	1	84	127
6302 Acetone											
6.	ug/l	N.D.		100	94	6	84	92	10	64	126
6303 Carbon Disulfide											
3.	ug/l	N.D.		138	95	37	116	105	10	70	118
5390 1,1-Dichloroethene											
1.	ug/l	N.D.		138	136	2	120	116	3	85	135
5393 1,1-Dichloroethane											
2.	ug/l	N.D.		134	130	4	114	114	0	86	128
5396 Chloroform											
1.	ug/l	N.D.		125	119	5	107	109	2	86	125
5402 1,2-Dichloroethane											
2.	ug/l	N.D.		125	122	2	107	107	0	81	130
6305 2-Butanone											
3.	ug/l	N.D.		110	106	3	89	97	9	65	139
5398 1,1,1-Trichloroethane											
1.	ug/l	N.D.		131	128	2	113	116	3	82	131
5399 Carbon Tetrachloride											
1.	ug/l	N.D.		129	128	1	113	115	2	81	129
5406 Bromodichloromethane											
1.	ug/l	N.D.		118	116	2	101	104	3	86	120
5421 1,1,2,2-Tetrachloroethane											
2.	ug/l	N.D.		106	103	3	94	97	3	65	133
5404 1,2-Dichloropropane											
1.	ug/l	N.D.		115	113	2	107	107	1	86	122
6306 trans-1,3-Dichloropropene											
1.	ug/l	N.D.		112	110	1	99	102	2	83	119
5403 Trichloroethene											
1.	ug/l	N.D.		120	116	3	110	113	3	89	128
5411 Dibromochloromethane											
2.	ug/l	N.D.		106	105	2	99	99	1	80	122
5408 1,1,2-Trichloroethane											
2.	ug/l	N.D.		109	106	2	100	102	2	86	121
5401 Benzene											
1.	ug/l	N.D.		120	118	2	112	114	2	88	125
6307 cis-1,3-Dichloropropene											
1.	ug/l	N.D.		110	108	1	101	105	3	83	120

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3315633
Soil Storage Blank Grab Water Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH

Group No. 701029
DaimlerChrysler Corporation

	SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
5419	Bromoform											
	1.	ug/l	N.D.		96	95	1	92	93	2	65	128
6308	4-Methyl-2-pentanone											
	5.	ug/l	N.D.		116	113	3	94	98	4	72	131
6309	2-Hexanone											
	7.	ug/l	N.D.		119	113	5	94	99	6	64	131
5409	Tetrachloroethene											
	1.	ug/l	N.D.		117	120	2	115	118	2	78	144
5407	Toluene											
	2.	ug/l	N.D.		116	114	1	107	111	3	89	121
5413	Chlorobenzene											
	1.	ug/l	N.D.		110	107	3	104	107	3	91	120
5415	Ethylbenzene											
	2.	ug/l	N.D.		118	117	1	107	110	3	91	122
5418	Styrene											
	1.	ug/l	N.D.		110	111	1	105	108	2	92	120
6310	Xylene (Total)											
	1.	ug/l	N.D.		114	112	2	107	108	1	92	123
5392	trans-1,2-Dichloroethene											
	2.	ug/l	N.D.		131	126	3	114	113	0	85	130
5395	cis-1,2-Dichloroethene											
	2.	ug/l	N.D.		124	122	1	110	112	1	89	125

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3315633
Soil Storage,Blank Grab Water Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH

Group No. 701029
DaimlerChrysler Corporation

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS LOW	HIGH
6291 TCL by 8260 (water)	DBFM	100	86	118
	d4-1,2-DCA	98	80	120
	d8-toluene	104	88	110
	4-BFB	99	86	115

10160 / 3315632-33

DAIMLERCHRYSLER — Chain-of-Custody

Sewer Cleanout Bldg 40

0622 B

Lancaster Laboratories	Project Name: Dayton Thermal Product	Consultant: LBG	
2425 New Holland Pike	Site Location: 1600 Webster St. Dayton OH	Address: 1210 West County Road E Suite 700	
Lancaster, PA 17601	Site Code: SC001	St. Paul MN 55112	
Phone Number: (717) 656-2300	RFA Number: YGQF9900282 SDG 282B	Consultant PM: Ken Vogel	
Fax Number: (717) 656-2681	DaimlerChrysler PM: Gary Stanczuk	Phone: 651 490 1405	Fax: 1006

Turn-around Time Request: (circle)
24 calendar hrs.
48 calendar hrs.
7 calendar days
14 calendar days

Data Package Deliverables: (circle)
DaimlerChrysler Level 1
DaimlerChrysler Level 2
CLP

Matrix Codes
S - Soil; SW - Surface Water; GW - Groundwater; A - Air; Sed. - Sediment; O - Other (specify) Lab DI water

Are aqueous samples field filtered for metals? Yes No

FEB 1 4 2000

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	TCL VOCs 8260 / 1000 ml amber / none	TCL SVOCs 8270 / 1000 ml amber / none	TCL PCBs 8082 / 1000 ml amber / none	TCL Pesticides 8081A / 1000 ml amber / none	Appendix IX Herbicides 8151	MI Metals 6/7000 Series / 1000 ml amber / none	Corrosivity by Chap 7 9040B / 125 ml glass / none	Ignitability by Chap 7 ASTM D-93 / 125 ml glass / none	Reactivity by Chap 7 / 125 ml glass / none	Remarks
WS40I2	1/31/00	10:45	G	See Remarks	5	X	X	X	X	X	X	X	X	X	Sludge from Line 40I @
WST013100	1/15/99	—	—	O	1	X				Rec'd broken			ALL/DN		Sweep 40I2. PID
Temp Blank	—	—	—	—	1										reading >3000 ppm.
															816227461094

Sampler(s): David Strand	Cooler ID #: Not Listed			Samples Relinquished under Airbill No. ~~816226734931~~		Temperature (corrected) 2.0 C	
	Relinquished by: David Strand	Date: 1/31/00	Time: Fed Ex	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Is RFA sampling complete? Yes No	Relinquished by:	Date:	Time:	Received for Laboratory by:	Date: 2/1/00	Time: 0930	Custody Seal Intact? Yes No

SDG 99-282B

DaimlerChrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Revision No. 3
Created: July 9, 1999

Lancaster Laboratories
Where quality is a science.

FAX Cover Page

Pages 7

CONFIDENTIAL MATERIAL

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law.

If received in error, please notify sender at once and return the original faxed transmission by U. S. Postal Service to the address indicated blow. Thank you.

2425 New Holland Pike
Lancaster, PA 17605-2425

Phone: 717-656-2300
Fax: 717-656-2681

Deliver to: Mr. Ken Vogel

Company: DAIMLERCHRYSLER CORPORATIO

Fax: 16514901006

From: Gwen A. Birchall Ext

Message: Sludge from pipe, line 40I, Bldg 40

WS40I2 RFA 99-282

received		Need
VOC	PCB	~~PCB~~
SVOC	Pest	~~Pest~~
Mtls	Herb	~~Herb~~
Corross,		
React.		
Ignit.		
pH		
Moist.		

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3315632 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 02/01/00 Date Reported: NOT REP
Date Collected: 01/31/00

WS4012 Grab Sludge Sample
Site Code: SC001 RFA#: YGOP9900282
Dayton Thermal Products/Dayton, OH

	ANALYSIS NAME	AS RECEIVED RESULT	METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULT	METHOD DETECTION LIMIT
0111	Moisture	24.2	0.50	% by wt.		

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.

==========

0159	Mercury	0.14	0.0025	mg/kg	0.19	0.0033
0394	pH	4.82	0.010			
0496	Corrosivity	See Below		See Below		

Corrosivity:
The pH of a 1:1 slurry (with deionized water) was 4.82 indicating that the waste is not corrosive.
A waste is corrosive if it exhibits a pH equal to or less than 2 or equal to or greater than 12.5.

==========

0542	Ignitability	See Below		See Below

The sample did not spontaneously ignite when exposed to air or water.
The sample did not ignite by friction.
The sample vapors did not ignite when exposed to a flame using a closed cup apparatus.

==========

1121	Reactivity	See Below		See Below

Reactivity:
The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of hydrogen cyanide exceeding 250 mg/kg or hydrogen sulfide exceeding 500 mg/kg. These interim threshold limits were established by the Solid Waste Branch of EPA, July, 1992. These results do not reflect total cyanide or total sulfide.

==========

1122	Sulfide (Reactivity)	N.D.	39.	mg/kg

1123	Cyanide (Reactivity)	N.D.	96.	mg/kg

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3315632 Account: 10160 DAIMLERCHRYSLER CORPORATION

1651	Chromium	455.		3.9	mg/kg	601.		5.1
4688	TCL SW846 Semivolatiles Soil							
1185	Phenol	N.D.		670.	ug/kg	N.D.		880.
3753	bis(2-Chloroethyl)ether	N.D.		330.	ug/kg	N.D.		440.
1186	2-Chlorophenol	N.D.		330.	ug/kg	N.D.		440.
3754	1,3-Dichlorobenzene	N.D.		330.	ug/kg	N.D.		440.
1187	1,4-Dichlorobenzene	N.D.		330.	ug/kg	N.D.		440.
3755	1,2-Dichlorobenzene	N.D.		330.	ug/kg	N.D.		440.
4690	2-Methylphenol	N.D.		330.	ug/kg	N.D.		440.
4691	2,2'-oxybis(1-Chloropropane)	N.D.		330.	ug/kg	N.D.		440.
4692	4-Methylphenol	N.D.		670.	ug/kg	N.D.		880.

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

==========

1188	N-Nitroso-di-n-propylamine	N.D.		330.	ug/kg	N.D.		440.
3757	Hexachloroethane	N.D.		330.	ug/kg	N.D.		440.
3758	Nitrobenzene	N.D.		330.	ug/kg	N.D.		440.
3759	Isophorone	N.D.		330.	ug/kg	N.D.		440.
3746	2-Nitrophenol	N.D.		670.	ug/kg	N.D.		880.
3747	2,4-Dimethylphenol	N.D.		670.	ug/kg	N.D.		880.
3760	bis(2-Chloroethoxy)methane	N.D.		670.	ug/kg	N.D.		880.
3748	2,4-Dichlorophenol	N.D.		670.	ug/kg	N.D.		880.
1189	1,2,4-Trichlorobenzene	N.D.		330.	ug/kg	N.D.		440.
3761	Naphthalene	2,300.	J	330.	ug/kg	3,000.	J	440.
4693	4-Chloroaniline	N.D.		670.	ug/kg	N.D.		880.
3762	Hexachlorobutadiene	N.D.		670.	ug/kg	N.D.		880.
1190	4-Chloro-3-methylphenol	N.D.		670.	ug/kg	N.D.		880.
4694	2-Methylnaphthalene	5,600.		330.	ug/kg	7,400.		440.
3763	Hexachlorocyclopentadiene	N.D.		1,700.	ug/kg	N.D.		2,200.
3749	2,4,6-Trichlorophenol	N.D.		670.	ug/kg	N.D.		880.
4695	2,4,5-Trichlorophenol	N.D.		670.	ug/kg	N.D.		880.
3764	2-Chloronaphthalene	N.D.		330.	ug/kg	N.D.		440.
4696	2-Nitroaniline	N.D.		670.	ug/kg	N.D.		880.
3766	Dimethylphthalate	N.D.		670.	ug/kg	N.D.		880.
3765	Acenaphthylene	890.	J	330.	ug/kg	1,200.	J	440.

==========

4689 TCL SW846 Semivolatiles/Soil

The usual quantitation limits could not be attained due to the matrix of the sample or interferences observed in the GC/MS semivolatile analysis.

The GC/MS semivolatile surrogate recoveries were outside of QC limits. The matrix spike and matrix spike duplicate samples were analyzed and surrogate recoveries were again outside of QC limits, indicating a significant matrix effect.

The GC/MS semivolatile internal standard peak areas were outside of the QC

imits for both the initial injection and the re-injection. The values here

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3315632 Account: 10160 DAIMLERCHRYSLER CORPORATION

are from the initial injection of the sample.

Bis(2-ethylhexyl)phthalate and Di-n-butylphthalate were detected in the method blank at concentrations of 7600 ug/kg and 5100 ug/kg respectively. The blank results were not subtracted from the analytical results.

==========

4697	3-Nitroaniline	N.D.		670.	ug/kg	N.D.		880.
1191	Acenaphthene	630.	J	330.	ug/kg	820.	J	440.
3750	2,4-Dinitrophenol	N.D.		6,700.	ug/kg	N.D.		8,800.
1192	4-Nitrophenol	N.D.		1,700.	ug/kg	N.D.		2,200.
4698	Dibenzofuran	700.	J	330.	ug/kg	920.	J	440.
1193	2,4-Dinitrotoluene	N.D.		330.	ug/kg	N.D.		440.
3767	2,6-Dinitrotoluene	N.D.		330.	ug/kg	N.D.		440.
3770	Diethylphthalate	N.D.		670.	ug/kg	N.D.		880.
3769	4-Chlorophenyl-phenylether	N.D.		330.	ug/kg	N.D.		440.
3768	Fluorene	1,300.	J	330.	ug/kg	1,800.	J	440.
4700	4-Nitroaniline	N.D.		670.	ug/kg	N.D.		880.
3751	4,6-Dinitro-2-methylphenol	N.D.		1,700.	ug/kg	N.D.		2,200.
3772	N-Nitrosodiphenylamine	N.D.		330.	ug/kg	N.D.		440.

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

==========

3773	4-Bromophenyl-phenylether	N.D.		330.	ug/kg	N.D.		440.
3774	Hexachlorobenzene	N.D.		330.	ug/kg	N.D.		440.
1194	Pentachlorophenol	N.D.		1,700.	ug/kg	N.D.		2,200.
3775	Phenanthrene	5,400.		330.	ug/kg	7,100.		440.
3776	Anthracene	940.	J	330.	ug/kg	1,200.	J	440.
4702	Carbazole	N.D.		670.	ug/kg	N.D.		880.
3777	Di-n-butylphthalate	1,100.	J	670.	ug/kg	1,500.	J	880.
3778	Fluoranthene	3,500.		330.	ug/kg	4,600.		440.
1195	Pyrene	4,100.		330.	ug/kg	5,400.		440.
3780	Butylbenzylphthalate	N.D.		670.	ug/kg	N.D.		880.
3783	3,3'-Dichlorobenzidine	N.D.		670.	ug/kg	N.D.		880.
3781	Benzo(a)anthracene	3,100.	J	330.	ug/kg	4,100.	J	440.
3784	bis(2-Ethylhexyl)phthalate	12,000.		670.	ug/kg	15,000.		880.
3782	Chrysene	3,800.		330.	ug/kg	5,000.		440.
3785	Di-n-octylphthalate	N.D.		670.	ug/kg	N.D.		880.
3786	Benzo(b)fluoranthene	4,300.		330.	ug/kg	5,700.		440.
3787	Benzo(k)fluoranthene	1,900.	J	330.	ug/kg	2,500.	J	440.
3788	Benzo(a)pyrene	3,100.	J	330.	ug/kg	4,100.	J	440.
3789	Indeno(1,2,3-cd)pyrene	N.D.		330.	ug/kg	N.D.		440.
3790	Dibenz(a,h)anthracene	N.D.		330.	ug/kg	N.D.		440.
3791	Benzo(g,h,i)perylene	N.D.		330.	ug/kg	N.D.		440.

==========

6292 TCL by 8260 (soil).

he GC/MS volatile analysis was performed according to the high level

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3315632 Account: 10160 DAIMLERCHRYSLER CORPORATION

soil method due to the level of target compounds. The quantitation limits were therefore raised.

Poor surrogate recoveries were observed for the GC/MS volatile fraction due to the dilution needed to perform the analysis.

This analysis was performed at a 6250 times and at a 125,000 times dilution of the original sample.

==========

5444	Chloromethane	N.D.	13,000.	ug/kg	N.D.	16,000.
5446	Bromomethane	N.D.	19,000.	ug/kg	N.D.	25,000.
5445	Vinyl Chloride	N.D.	13,000.	ug/kg	N.D.	16,000.
5447	Chloroethane	N.D.	19,000.	ug/kg	N.D.	25,000.
5450	Methylene Chloride	N.D.	13,000.	ug/kg	N.D.	16,000.
6293	Acetone	N.D.	44,000.	ug/kg	N.D.	58,000.
6294	Carbon Disulfide	N.D.	19,000.	ug/kg	N.D.	25,000.
5449	1,1-Dichloroethene	N.D.	13,000.	ug/kg	N.D.	16,000.
5452	1,1-Dichloroethane	N.D.	6,300.	ug/kg	N.D.	8,200.
5455	Chloroform	N.D.	6,300.	ug/kg	N.D.	8,200.
5461	1,2-Dichloroethane	N.D.	13,000.	ug/kg	N.D.	16,000.
6296	2-Butanone	N.D.	44,000.	ug/kg	N.D.	58,000.
5457	1,1,1-Trichloroethane	N.D.	6,300.	ug/kg	N.D.	8,200.
5458	Carbon Tetrachloride	N.D.	6,300.	ug/kg	N.D.	8,200.
5465	Bromodichloromethane	N.D.	13,000.	ug/kg	N.D.	16,000.
5480	1,1,2,2-Tetrachloroethane	N.D.	6,300.	ug/kg	N.D.	8,200.
5463	1,2-Dichloropropane	N.D.	19,000.	ug/kg	N.D.	25,000.
6297	trans-1,3-Dichloropropene	N.D.	6,300.	ug/kg	N.D.	8,200.
5462	Trichloroethene	480,000.	6,300.	ug/kg	640,000.	8,200.
5470	Dibromochloromethane	N.D.	6,300.	ug/kg	N.D.	8,200.
5467	1,1,2-Trichloroethane	N.D.	13,000.	ug/kg	N.D.	16,000.
5460	Benzene	N.D.	6,300.	ug/kg	N.D.	8,200.
6298	cis-1,3-Dichloropropene	N.D.	6,300.	ug/kg	N.D.	8,200.
5478	Bromoform	N.D.	6,300.	ug/kg	N.D.	8,200.
6299	4-Methyl-2-pentanone	N.D.	19,000.	ug/kg	N.D.	25,000.
6300	2-Hexanone	N.D.	19,000.	ug/kg	N.D.	25,000.
5468	Tetrachloroethene	24,000,000.	130,000.	ug/kg	32,000,000.	160,000.
5466	Toluene	N.D.	6,300.	ug/kg	N.D.	8,200.
5472	Chlorobenzene	N.D.	6,300.	ug/kg	N.D.	8,200.
5474	Ethylbenzene	N.D.	6,300.	ug/kg	N.D.	8,200.
5477	Styrene	N.D.	6,300.	ug/kg	N.D.	8,200.
6301	Xylene (Total)	N.D.	6,300.	ug/kg	N.D.	8,200.
5451	trans-1,2-Dichloroethene	N.D.	13,000.	ug/kg	N.D.	16,000.
5454	cis-1,2-Dichloroethene	39,000.	13,000.	ug/kg	51,000.	16,000.

==========

6935	Arsenic TR	50.7	1.3	mg/kg	66.8	1.6
6946	Barium TR	167.	0.25	mg/kg	220.	0.32
6949	Cadmium TR	N.D.	0.38	mg/kg	N.D.	0.50

6953	Copper TR	698.	0.90	mg/kg	921.	1.2

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3315632 Account: 10160 DAIMLERCHRYSLER CORPORATION

6955	Lead TR	71.4		2.7	mg/kg	94.2	3.5
6966	Silver TR	0.81	J	0.70	mg/kg	1.07 J	0.92
6972	Zinc TR	874.		1.7	mg/kg	1,150.	2.2

Trip Blank received broken at Lancaster Laboratories.
==========

Sample Number: WW3315633 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 02/01/00 Date Reported: NOT REP
Date Collected: 02/01/00

Soil Storage Blank Grab Water Sample
Site Code: SC001 RFA#: YGOP9900282
Dayton Thermal Products/Dayton, OH

	ANALYSIS NAME	RESULT		METHOD DETECTION LIMIT	UNITS
6291	TCL by 8260 (water)				
5385	Chloromethane	N.D.		3.	ug/l
5387	Bromomethane	N.D.		3.	ug/l
5386	Vinyl Chloride	N.D.		2.	ug/l
5388	Chloroethane	N.D.		3.	ug/l
5391	Methylene Chloride	N.D.		2.	ug/l
6302	Acetone	7.	J	6.	ug/l
6303	Carbon Disulfide	N.D.		3.	ug/l
5390	1,1-Dichloroethene	N.D.		1.	ug/l
5393	1,1-Dichloroethane	N.D.		2.	ug/l
5396	Chloroform	N.D.		1.	ug/l
5402	1,2-Dichloroethane	N.D.		2.	ug/l
6305	2-Butanone	N.D.		3.	ug/l
5398	1,1,1-Trichloroethane	N.D.		1.	ug/l
5399	Carbon Tetrachloride	N.D.		1.	ug/l
5406	Bromodichloromethane	N.D.		1.	ug/l
5421	1,1,2,2-Tetrachloroethane	N.D.		2.	ug/l
5404	1,2-Dichloropropane	N.D.		1.	ug/l
6306	trans-1,3-Dichloropropene	N.D.		1.	ug/l
5403	Trichloroethene	N.D.		1.	ug/l
5411	Dibromochloromethane	N.D.		2.	ug/l
5408	1,1,2-Trichloroethane	N.D.		2.	ug/l
5401	Benzene	N.D.		1.	ug/l
6307	cis-1,3-Dichloropropene	N.D.		1.	ug/l
5419	Bromoform	N.D.		1.	ug/l
6308	4-Methyl-2-pentanone	N.D.		5.	ug/l
6309	2-Hexanone	N.D.		7.	ug/l
5409	Tetrachloroethene	N.D.		1.	ug/l
5407	Toluene	N.D.		2.	ug/l

5413	Chlorobenzene	N.D.	1.	ug/l

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: WW3315633 Account: 10160 DAIMLERCHRYSLER CORPORATION

5415	Ethylbenzene	N.D.	2.	ug/l
5418	Styrene	N.D.	1.	ug/l
6310	Xylene (Total)	N.D.	1.	ug/l
5392	trans-1,2-Dichloroethene	N.D.	2.	ug/l
5395	cis-1,2-Dichloroethene	N.D.	2.	ug/l

==========

Lancaster Laboratories
Where quality is a science.

FAX Cover Page

Pages 8

CONFIDENTIAL MATERIAL

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law.

If received in error, please notify sender at once and return the original faxed transmission by U. S. Postal Service to the address indicated blow. Thank you.

2425 New Holland Pike
Lancaster, PA 17605-2425

Phone: 717-656-2300
Fax: 717-656-2681

Deliver to: Mr. Ken Vogel

Company: DAIMLERCHRYSLER CORPORATIO

Fax: 16514901006

From: Gwen A. Birchall Ext

Message:

WS40I2 RFA 99-282

PCB
Pest
Herb

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3315632 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 02/01/00 Date Reported: NOT REP
Date Collected: 01/31/00

WS4012 Grab Sludge Sample
Site Code: SC001 RFA#: YGQP9900282
Dayton Thermal Products/Dayton, OH

		AS RECEIVED			DRY WEIGHT	
	ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS	RESULT	METHOD DETECTION LIMIT
0111	Moisture	24.2	0.50	% by wt.		

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.

==========

0159	Mercury	0.14	0.0025	mg/kg	0.19	0.0033
0394	pH	4.82	0.010			
0496	Corrosivity	See Below		See Below		

Corrosivity:
The pH of a 1:1 slurry (with deionized water) was 4.82 indicating that the waste is not corrosive.
A waste is corrosive if it exhibits a pH equal to or less than 2 or equal to or greater than 12.5.

==========

0542	Ignitability	See Below		See Below

The sample did not spontaneously ignite when exposed to air or water.
The sample did not ignite by friction.
The sample vapors did not ignite when exposed to a flame using a closed cup apparatus.

==========

1121	Reactivity	See Below		See Below

Reactivity:
The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of hydrogen cyanide exceeding 250 mg/kg or hydrogen sulfide exceeding 500 mg/kg. These interim threshold limits were established by the Solid Waste Branch of EPA, July, 1992. These results do not reflect total cyanide or total sulfide.

==========

1122	Sulfide (Reactivity)	N.D.	39.	mg/kg

1123	Cyanide (Reactivity)	N.D.	96.	mg/kg

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3315632 Account: 10160 DAIMLERCHRYSLER CORPORATION

1225 TCL Pesticides in Solids

The blank associated with this sample contained beta-BHC at 0.17ug/kg, delta-BHC at 0.25ug/kg and endosulfan I at 0.10ug/kg. The MS/MSD were not spiked for single component analytes. DDT and methoxychlor were outside of QC limits in the LCS. None of the above listed components were detected in the sample.

Due to interfering peaks on the chromatogram, the values reported represent the lowest quantitation limits obtainable.
Despite numerous cleanup methods, we were unable to reach our usual quantitation limits.

==========

1981	Alpha BHC	N.D.	34.	ug/kg	N.D.	44.
1982	Beta BHC	N.D.	34.	ug/kg	N.D.	44.
1983	Delta BHC	N.D.	34.	ug/kg	N.D.	44.
1218	Gamma BHC - Lindane	N.D.	34.	ug/kg	N.D.	44.
1219	Heptachlor	N.D.	34.	ug/kg	N.D.	44.
1220	Aldrin	N.D.	34.	ug/kg	N.D.	44.
1984	Heptachlor Epoxide	N.D.	34.	ug/kg	N.D.	44.
1989	Endosulfan I	N.D.	34.	ug/kg	N.D.	44.
1222	Dieldrin	N.D.	65.	ug/kg	N.D.	86.
1985	DDE	N.D.	65.	ug/kg	N.D.	86.
1223	Endrin	N.D.	65.	ug/kg	N.D.	86.
1990	Endosulfan II	N.D.	65.	ug/kg	N.D.	86.
1986	DDD	N.D.	65.	ug/kg	N.D.	86.
1991	Endosulfan Sulfate	N.D.	65.	ug/kg	N.D.	86.
1221	DDT	N.D.	65.	ug/kg	N.D.	86.
3017	Endrin Ketone	N.D.	65.	ug/kg	N.D.	86.
1859	Methoxychlor	N.D.	340.	ug/kg	N.D.	440.
3025	Alpha Chlordane	N.D.	34.	ug/kg	N.D.	44.
3026	Gamma Chlordane	N.D.	34.	ug/kg	N.D.	44.
1988	Toxaphene	N.D.	3,400.	ug/kg	N.D.	4,400.
1992	Endrin Aldehyde	N.D.	65.	ug/kg	N.D.	86.
1993	PCB-1016	N.D.	1,700.	ug/kg	N.D.	2,200.
1994	PCB-1221	N.D.	3,900.	ug/kg	N.D.	5,100.
1995	PCB-1232	N.D.	1,700.	ug/kg	N.D.	2,200.
1996	PCB-1242	N.D.	1,700.	ug/kg	N.D.	2,200.
1997	PCB-1248	N.D.	1,700.	ug/kg	N.D.	2,200.
1998	PCB-1254	39,000.	1,700.	ug/kg	51,000.	2,200.
1999	PCB-1260	N.D.	1,700.	ug/kg	N.D.	2,200.

==========

1651	Chromium	455.	3.9	mg/kg	601.	5.1

1863 Appendix IX Herbicides in Soil

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The Limits of Quantitation (LOQ's) were raised accordingly.

Due to the dilution required for analysis, accurate surrogate and spike

ecoveries could not be determined.

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3315632 Account: 10160 DAIMLERCHRYSLER CORPORATION

==========

4174	2,4-D	N.D.		330.	ug/kg	N.D.		440. *
4175	Dinoseb	N.D.		380.	ug/kg	N.D.		500.
4176	2,4,5-TP (Silvex)	N.D.		33.	ug/kg	N.D.		44.
4177	2,4,5-T	N.D.		33.	ug/kg	N.D.		44.

==========

4688 TCL SW846 Semivolatiles Soil

1185	Phenol	N.D.		670.	ug/kg	N.D.		880.
3753	bis(2-Chloroethyl)ether	N.D.		330.	ug/kg	N.D.		440.
1186	2-Chlorophenol	N.D.		330.	ug/kg	N.D.		440.
3754	1,3-Dichlorobenzene	N.D.		330.	ug/kg	N.D.		440.
1187	1,4-Dichlorobenzene	N.D.		330.	ug/kg	N.D.		440.
3755	1,2-Dichlorobenzene	N.D.		330.	ug/kg	N.D.		440.
4690	2-Methylphenol	N.D.		330.	ug/kg	N.D.		440.
4691	2,2'-oxybis(1-Chloropropane)	N.D.		330.	ug/kg	N.D.		440.
4692	4-Methylphenol	N.D.		670.	ug/kg	N.D.		880.

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

==========

1188	N-Nitroso-di-n-propylamine	N.D.		330.	ug/kg	N.D.		440.
3757	Hexachloroethane	N.D.		330.	ug/kg	N.D.		440.
3758	Nitrobenzene	N.D.		330.	ug/kg	N.D.		440.
3759	Isophorone	N.D.		330.	ug/kg	N.D.		440.
3746	2-Nitrophenol	N.D.		670.	ug/kg	N.D.		880.
3747	2,4-Dimethylphenol	N.D.		670.	ug/kg	N.D.		880.
3760	bis(2-Chloroethoxy)methane	N.D.		670.	ug/kg	N.D.		880.
3748	2,4-Dichlorophenol	N.D.		670.	ug/kg	N.D.		880.
1189	1,2,4-Trichlorobenzene	N.D.		330.	ug/kg	N.D.		440.
3761	Naphthalene	2,300.	J	330.	ug/kg	3,000.	J	440.
4693	4-Chloroaniline	N.D.		670.	ug/kg	N.D.		880.
3762	Hexachlorobutadiene	N.D.		670.	ug/kg	N.D.		880.
1190	4-Chloro-3-methylphenol	N.D.		670.	ug/kg	N.D.		880.
4694	2-Methylnaphthalene	5,600.		330.	ug/kg	7,400.		440.
3763	Hexachlorocyclopentadiene	N.D.		1,700.	ug/kg	N.D.		2,200.
3749	2,4,6-Trichlorophenol	N.D.		670.	ug/kg	N.D.		880.
4695	2,4,5-Trichlorophenol	N.D.		670.	ug/kg	N.D.		880.
3764	2-Chloronaphthalene	N.D.		330.	ug/kg	N.D.		440.
4696	2-Nitroaniline	N.D.		670.	ug/kg	N.D.		880.
3766	Dimethylphthalate	N.D.		670.	ug/kg	N.D.		880.
3765	Acenaphthylene	890.	J	330.	ug/kg	1,200.	J	440.

==========

4689 TCL SW846 Semivolatiles/Soil

The usual quantitation limits could not be attained due to the matrix of the sample or interferences observed in the GC/MS semivolatile analysis.

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3315632 Account: 10160 DAIMLERCHRYSLER CORPORATION

The GC/MS semivolatile surrogate recoveries were outside of QC limits. The matrix spike and matrix spike duplicate samples were analyzed and surrogate recoveries were again outside of QC limits, indicating a significant matrix effect.

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Bis(2-ethylhexyl)phthalate and Di-n-butylphthalate were detected in the method blank at concentrations of 7600 ug/kg and 5100 ug/kg respectively. The blank results were not subtracted from the analytical results.

==========

4697	3-Nitroaniline	N.D.		670.	ug/kg	N.D.		880.
1191	Acenaphthene	630.	J	330.	ug/kg	820.	J	440.
3750	2,4-Dinitrophenol	N.D.		6,700.	ug/kg	N.D.		8,800.
1192	4-Nitrophenol	N.D.		1,700.	ug/kg	N.D.		2,200.
4698	Dibenzofuran	700.	J	330.	ug/kg	920.	J	440.
1193	2,4-Dinitrotoluene	N.D.		330.	ug/kg	N.D.		440.
3767	2,6-Dinitrotoluene	N.D.		330.	ug/kg	N.D.		440.
3770	Diethylphthalate	N.D.		670.	ug/kg	N.D.		880.
3769	4-Chlorophenyl-phenylether	N.D.		330.	ug/kg	N.D.		440.
3768	Fluorene	1,300.	J	330.	ug/kg	1,800.	J	440.
4700	4-Nitroaniline	N.D.		670.	ug/kg	N.D.		880.
3751	4,6-Dinitro-2-methylphenol	N.D.		1,700.	ug/kg	N.D.		2,200.
3772	N-Nitrosodiphenylamine	N.D.		330.	ug/kg	N.D.		440.

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

==========

3773	4-Bromophenyl-phenylether	N.D.		330.	ug/kg	N.D.		440.
3774	Hexachlorobenzene	N.D.		330.	ug/kg	N.D.		440.
1194	Pentachlorophenol	N.D.		1,700.	ug/kg	N.D.		2,200.
3775	Phenanthrene	5,400.		330.	ug/kg	7,100.		440.
3776	Anthracene	940.	J	330.	ug/kg	1,200.	J	440.
4702	Carbazole	N.D.		670.	ug/kg	N.D.		880.
3777	Di-n-butylphthalate	1,100.	J	670.	ug/kg	1,500.	J	880.
3778	Fluoranthene	3,500.		330.	ug/kg	4,600.		440.
1195	Pyrene	4,100.		330.	ug/kg	5,400.		440.
3780	Butylbenzylphthalate	N.D.		670.	ug/kg	N.D.		880.
3783	3,3'-Dichlorobenzidine	N.D.		670.	ug/kg	N.D.		880.
3781	Benzo(a)anthracene	3,100.	J	330.	ug/kg	4,100.	J	440.
3784	bis(2-Ethylhexyl)phthalate	12,000.		670.	ug/kg	15,000.		880.
3782	Chrysene	3,800.		330.	ug/kg	5,000.		440.
3785	Di-n-octylphthalate	N.D.		670.	ug/kg	N.D.		880.
3786	Benzo(b)fluoranthene	4,300.		330.	ug/kg	5,700.		440.
3787	Benzo(k)fluoranthene	1,900.	J	330.	ug/kg	2,500.	J	440.

3788	Benzo(a)pyrene	3,100.	J 330.	ug/kg	4,100.	J	440.

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3315632 Account: 10160 DAIMLERCHRYSLER CORPORATION

3789	Indeno(1,2,3-cd)pyrene	N.D.	330.	ug/kg	N.D.	440.
3790	Dibenz(a,h)anthracene	N.D.	330.	ug/kg	N.D.	440.
3791	Benzo(g,h,i)perylene	N.D.	330.	ug/kg	N.D.	440.

==========

6292 TCL by 8260 (soil)

The GC/MS volatile analysis was performed according to the high level soil method due to the level of target compounds. The quantitation limits were therefore raised.

Poor surrogate recoveries were observed for the GC/MS volatile fraction due to the dilution needed to perform the analysis.

This analysis was performed at a 6250 times and at a 125,000 times dilution of the original sample.

==========

5444	Chloromethane	N.D.	13,000.	ug/kg	N.D.	16,000.
5446	Bromomethane	N.D.	19,000.	ug/kg	N.D.	25,000.
5445	Vinyl Chloride	N.D.	13,000.	ug/kg	N.D.	16,000.
5447	Chloroethane	N.D.	19,000.	ug/kg	N.D.	25,000.
5450	Methylene Chloride	N.D.	13,000.	ug/kg	N.D.	16,000.
6293	Acetone	N.D.	44,000.	ug/kg	N.D.	58,000.
6294	Carbon Disulfide	N.D.	19,000.	ug/kg	N.D.	25,000.
5449	1,1-Dichloroethene	N.D.	13,000.	ug/kg	N.D.	16,000.
5452	1,1-Dichloroethane	N.D.	6,300.	ug/kg	N.D.	8,200.
5455	Chloroform	N.D.	6,300.	ug/kg	N.D.	8,200.
5461	1,2-Dichloroethane	N.D.	13,000.	ug/kg	N.D.	16,000.
6296	2-Butanone	N.D.	44,000.	ug/kg	N.D.	58,000.
5457	1,1,1-Trichloroethane	N.D.	6,300.	ug/kg	N.D.	8,200.
5458	Carbon Tetrachloride	N.D.	6,300.	ug/kg	N.D.	8,200.
5465	Bromodichloromethane	N.D.	13,000.	ug/kg	N.D.	16,000.
5480	1,1,2,2-Tetrachloroethane	N.D.	6,300.	ug/kg	N.D.	8,200.
5463	1,2-Dichloropropane	N.D.	19,000.	ug/kg	N.D.	25,000.
6297	trans-1,3-Dichloropropene	N.D.	6,300.	ug/kg	N.D.	8,200.
5462	Trichloroethene	480,000.	6,300.	ug/kg	640,000.	8,200.
5470	Dibromochloromethane	N.D.	6,300.	ug/kg	N.D.	8,200.
5467	1,1,2-Trichloroethane	N.D.	13,000.	ug/kg	N.D.	16,000.
5460	Benzene	N.D.	6,300.	ug/kg	N.D.	8,200.
6298	cis-1,3-Dichloropropene	N.D.	6,300.	ug/kg	N.D.	8,200.
5478	Bromoform	N.D.	6,300.	ug/kg	N.D.	8,200.
6299	4-Methyl-2-pentanone	N.D.	19,000.	ug/kg	N.D.	25,000.
6300	2-Hexanone	N.D.	19,000.	ug/kg	N.D.	25,000.
5468	Tetrachloroethene	24,000,000.	130,000.	ug/kg	32,000,000.	160,000.
5466	Toluene	N.D.	6,300.	ug/kg	N.D.	8,200.
5472	Chlorobenzene	N.D.	6,300.	ug/kg	N.D.	8,200.
5474	Ethylbenzene	N.D.	6,300.	ug/kg	N.D.	8,200.
5477	Styrene	N.D.	6,300.	ug/kg	N.D.	8,200.
6301	Xylene (Total)	N.D.	6,300.	ug/kg	N.D.	8,200.

5451	trans-1,2-Dichloroethene	N.D.	13,000.	ug/kg	N.D.	16,000.

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: SW3315632 Account: 10160 DAIMLERCHRYSLER CORPORATION

5454	cis-1,2-Dichloroethene	39,000.	13,000.	ug/kg	51,000.	16,000.

==========

6935	Arsenic TR	50.7		1.3	mg/kg	66.8	1.6
6936	Selenium TR	17.8		2.3	mg/kg	23.4	3.0
6946	Barium TR	167.		0.25	mg/kg	220.	0.32
6949	Cadmium TR	N.D.		0.38	mg/kg	N.D.	0.50
6953	Copper TR	698.		0.90	mg/kg	921.	1.2
6955	Lead TR	71.4		2.7	mg/kg	94.2	3.5
6966	Silver TR	0.81	J	0.70	mg/kg	1.07 J	0.92
6972	Zinc TR	874.		1.7	mg/kg	1,150.	2.2

Trip Blank received broken at Lancaster Laboratories.

==========

Sample Number: WW3315633 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 02/01/00 Date Reported: NOT REP
Date Collected: 02/01/00

Soil Storage Blank Grab Water Sample
Site Code: SC001 RFA#: YG0P9900282
Dayton Thermal Products/Dayton, OH

	ANALYSIS NAME	RESULT		METHOD DETECTION LIMIT	UNITS
6291	TCL by 8260 (water)				
5385	Chloromethane	N.D.		3.	ug/l
5387	Bromomethane	N.D.		3.	ug/l
5386	Vinyl Chloride	N.D.		2.	ug/l
5388	Chloroethane	N.D.		3.	ug/l
5391	Methylene Chloride	N.D.		2.	ug/l
6302	Acetone	7.	J	6.	ug/l
6303	Carbon Disulfide	N.D.		3.	ug/l
5390	1,1-Dichloroethene	N.D.		1.	ug/l
5393	1,1-Dichloroethane	N.D.		2.	ug/l
5396	Chloroform	N.D.		1.	ug/l
5402	1,2-Dichloroethane	N.D.		2.	ug/l
6305	2-Butanone	N.D.		3.	ug/l
5398	1,1,1-Trichloroethane	N.D.		1.	ug/l
5399	Carbon Tetrachloride	N.D.		1.	ug/l
5406	Bromodichloromethane	N.D.		1.	ug/l
5421	1,1,2,2-Tetrachloroethane	N.D.		2.	ug/l
5404	1,2-Dichloropropane	N.D.		1.	ug/l
6306	trans-1,3-Dichloropropene	N.D.		1.	ug/l
5403	Trichloroethene	N.D.		1.	ug/l
5411	Dibromochloromethane	N.D.		2.	ug/l

5408	1,1,2-Trichloroethane	N.D.	2.	ug/l

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: WW3315633 Account: 10160 DAIMLERCHRYSLER CORPORATION

5401	Benzene	N.D.	1.	ug/l
6307	cis-1,3-Dichloropropene	N.D.	1.	ug/l
5419	Bromoform	N.D.	1.	ug/l
6308	4-Methyl-2-pentanone	N.D.	5.	ug/l
6309	2-Hexanone	N.D.	7.	ug/l
5409	Tetrachloroethene	N.D.	1.	ug/l
5407	Toluene	N.D.	2.	ug/l
5413	Chlorobenzene	N.D.	1.	ug/l
5415	Ethylbenzene	N.D.	2.	ug/l
5418	Styrene	N.D.	1.	ug/l
6310	Xylene (Total)	N.D.	1.	ug/l
5392	trans-1,2-Dichloroethene	N.D.	2.	ug/l
5395	cis-1,2-Dichloroethene	N.D.	2.	ug/l

==========

EPA Region 5 Records Ctr.
350104

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MWA-1	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O
Key Number: 2246	INITIAL READINGS		14:42	19°	800	7.20	0.7 mg/L
Casing Diameter (in): 2	7.8	3	14:53	18°	760	6.70	
Well Depth (ft): 39.05							
Depth to water: 23.12							
Column length (ft): 15.93							
Column volume (gal): 2.6							
Total volume purged (gal): 7.8							

Miscellaneous

Purge Method: DISPOSABLE BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, ~32°F, FLURRIES

Sample Description: SLIGHTLY SILTY, BROWN TINT, ODORLESS

Remarks: ORP = 223 mV

Sampler: MPH/DVS/CFH

Time sample collected: 14:55

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98-203-T | Well# MWA-1

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster Street
Dayton Ohio 45401

Date: 1/21/98
Inspectors: MPH/CFH/DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
14:30	32°F	cloudy		breeze	East	Wet
		Flurries				

MONITORING Instrument	MONITORING Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 2.6
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	23.12 / –	29.1	slightly silty, brown	7.2 / 6.7	800 / 760
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	23.12	2.6	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~	Depth to Water (ft)
14:42	bailed	Initial	19	800	7.2		ORP	23.12
14:53		7.8	18	760	6.7	0.7	223	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
23.12	39.05	15.93	0.163	2.6	3	7.8

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MWA-1

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3 / 40ml	P, G, AG	HCl	26	14:55	1/21/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/22/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MWA-2	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D. C
Key Number: 2246	INITIAL READING		13:12	20	820	6.9	0.2 mg/l
Casing Diameter (in): 2	9	3	13:27	18	800	6.9	
Well Depth (ft): 39.35							
Depth to water: 20.93							
Column length (ft): 18.42							
Column volume (gal): 3.0							
Total volume purged (gal): 9							

Miscellaneous

Purge Method: DISPOSABLE BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY. 41°F

Sample Description: Slightly cloudy

Remarks: ORP = -4 mV

Sampler: MPH/DVS/CFH

Time sample collected: 13:30

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98-203-T | Well# MWA-2

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster Street
Dayton, Ohio 45401

Date: 1/22/98
Inspectors: MPH/CEH/DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
13:00	41°F	Cloudy		light	Northerly	dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 3.0
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	20.93 / —	29.4	slightly cloudy	6.9 / 6.9	820 / 800
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	20.93	3.0	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~	Depth to Water (ft)
13:12	bailed	Initial	20	820	6.9		ORP	20.93
13:27	↓	9	18	800	6.9	0.25	-4	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
20.93	39.35	18.42	0.163	3.0	3 ~~9.0~~	9.0

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MWA-2

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3 / 40ml	P, G, AG	HCl	38	13:30	1/22/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: Compuchem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/22/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MWA-3	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O.
Key Number: 2246	INITIAL READING		8:15	19°	900	6.8	0.9 mg/L
Casing Diameter (in): 2	7.5	3	8:29	19°	920	6.6	
Well Depth (ft): 39.30							
Depth to water: 23.75							
Column length (ft): 15.55							
Column volume (gal): 2.5							
Total volume purged (gal): 7.5							

Miscellaneous

Purge Method: DISPOSABLE BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, ~32°F CALM

Sample Description: Silty, No Odor, Tan

Remarks: ORP = 63 mV
INSIDE OF WELL CASING IS DIRTY, PROBABLY FROM WATER IN WELL CAVITY SEEPING IN.
NO BOLTS ON OUTER CASING

Sampler: MPH/DVS/CFH

Time sample collected: 8:34

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98-203-T | Well# MWA-3

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster Street
Dayton Ohio 45401

Date: 1/22/98
Inspectors: MPH/CFH/DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
0800	32°F	Cloudy		calm	–	dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 2.5
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	23.75 / —	29.3	silty, tan	6.8 / 6.6	900 / 920
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	23.75	2.5	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~	Depth to Water (ft)
8:15	bailed	Initial	19	900	6.8		ORP	23.75
8:29	↓	7.5	19	920	6.6	0.9	63	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
23.75	39.3	15.55	0.163	2.5	3	7.5

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MWA-3

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3 / 40ml	P, G, AG	HCl	29	8:34	1/22/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: Compu Chem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/22/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MWA-4	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O
Key Number: 2246	INITIAL READING		14:16	18	600	7.1	1.4
Casing Diameter (in): 2	5	~1.5	14:21		980	6.6	mg/l
Well Depth (ft): 45.00	11	~3	14:25	18°	980	6.5	
Depth to water: 22.69							
Column length (ft): 22.31							
Column volume (gal): 3.63							
Total volume purged (gal): 10.89							

Miscellaneous

Purge Method: DISPOSABLE BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, 41°F

Sample Description: FAIRLY CLEAR

Remarks: ORP = -12 mV

WATER HAS BLACK SUSPENDED ORGANIC PARTICLES, SHEEN ON SURFACE. THIS WELL HAS NO OUTER COVER. CLEARED UP WHILE PURGING.

Sampler: MPH/DVS/CFH	Time sample collected: 14:27

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number: 98-203-7	Well# MWA-4

PROJECT: Dayton Thermal Products
LOCATION: 1600 webster St. Dayton, Ohio 45401

Date: 1/22/98
Inspectors: MPH/CEH/DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
14:00	41° F	cloudy		Calm	—	dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 3.63
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.69 / —	35.0	Fairly clear	7.1 / 6.5	600 / 980
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.69	3.63	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~	Depth to Water (ft)
14:16	bailed	Initial	18	600	7.1	1.4	ORP	22.69
14:21	↓	5		980	6.6			
14:25	↓	11	18	980	6.5		-12	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.69	45.0	22.31	0.163	3.63	3	10.89

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MWA-4

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3 / 40 ml	P, G, AG	HCl	40	14:27	1/22/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MWA-5	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O
Key Number: 2246	INITIAL READING		14:13	18°	1000	8.8	0.75 mg/l
Casing Diameter (in): 2	8.1	3	14:25	17.9	1000	7.2	ORP
Well Depth (ft): 39.35							90
Depth to water: 23.05							
Column length (ft): 16.30							
Column volume (gal): 2.7							
Total volume purged (gal): 8.1							

Miscellaneous

Purge Method: DISPOSABLE BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, ~35°F, FLURRIES

Sample Description: SILTY, BROWN TINT, ODORLESS

Remarks: ORP = 90 mV

Sampler: MPH/DVS/CFH

Time sample collected: 14:30

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98-203-T | Well# MWA-5

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St.
Dayton, Ohio 45401

Date: 1/21/98
Inspectors: MPH/CFH/DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
1400	35°F	cloudy	Flurries	breeze	East	wet

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 2.7
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	23.05 / –	29.4	silty, brown tint	8.8 / 7.2	1000 / 1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	23.05	2.7	N.A	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~	Depth to Water (ft)
14:13	bailed	Initial	18	1000	8.8	0.75	ORP	23.05
14:25	↓	8.1	17	1000	7.2		90	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
23.05	39.35	16.3	0.163	2.7	3	8.1

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: DAYTON THERMAL | Well #: MWA-5

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3 / 40ml	P, G, AG	HCl	25	14:30	1/21/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MWA-6	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O.
Key Number: 2246	INITAL READING		11:31	18°	420	7.1	2.4 mg/l
Casing Diameter (in): 2	8.1	3	11:40	17.5°	835	6.8	
Well Depth (ft): 39.8							
Depth to water: 23.45							
Column length (ft): 16.35							
Column volume (gal): 2.7							
Total volume purged (gal): 8.1							

Miscellaneous

Purge Method: DISPOSABLE BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: MOSTLY CLOUDY, ~32°F, E. WIND

Sample Description: V. slightly turbid, brown

Remarks: ORP = 059 mV

Sampler: MPH/DVS/CFH

Time sample collected: 11:40

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number: 98-203-T	Well# MWA-6

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St. Dayton, Ohio 45401

Date: 1/21/98
Inspectors: MPH/CFH/DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
1130	32° F	cloudy			East	dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 2.7
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	23.45 / –	29.8	V. slightly turbid, brown	7.1 / 6.8	420 / 835
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	23.45	2.7	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~	Depth to Water (ft)
11:31	bailed	Initial	18	420	7.1	2.4	ORP	23.45
11:40	↓	8.1	17.5	835	6.8		59	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
23.45	39.8	16.35	0.163	2.7	3	8.1

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MWA-6

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG	HCl	19	11:40	1/21/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/20/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MWB-1	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	ORP
Key Number: 2246	16	1.75	10:36	15	990	7.55	
Casing Diameter (in): 2	28.4	3	10:51	15	1100	10.50	-167.
Well Depth (ft): 74.15							
Depth to water: 16.09							
Column length (ft): 58.06							
Column volume (gal): 9.3							
Total volume purged (gal): 28.4							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP / LBG MADISONS

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, ~25°F

Sample Description: CLEAR, ODORLESS

Remarks: D.O. = 0.75 mg/L

Sampler: MPH/DVS/CFH

Time sample collected: 10:55

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# MWB-1
PROJECT: Dayton Thermal Products YGQP9800203-T		Date: 1/20/98
LOCATION: 1600 Webster St Dayton, Ohio 45401		Inspectors: MPH/CFH/DVS
		Pump #: Madison's whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
10:30	25°C	cloudy				Dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 9.3
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	16.09 / —		Clear / Clear	7.55 / 10.50	990 / 1100
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	16.09	9.3	≈ 30'	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ DO	~~Turbidity (NTU)~~ ORP	Depth to Water (ft)
10:36	~~1.6~~ 2gpm	16	15	990	7.55	0.75		16.09
10:51		28.4	15	1100	10.50		-167	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
16.09	74.15	58.06	2"/.163	9.3	3	28.4

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: DAYTON THERMAL PRODUCTS | Well #: MWB-1

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA	3/40ml	P, G, AG	HCL	1	10:55	1/20/98
1A	BTEX	NA	P, G, AG	NA			
2	SVOC	"	P, G, AG	"			
2A	PAHs	"	P, G, AG	"			
2B	TPH	"	P, G, AG	"			
3	HERB	"	P, G, AG	"			
4	Pest/PCB	"	P, G, AG	"			
5	Total metals	"	P, G, AG	"			
6	Filtered Metals	"	P, G, AG	"			

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: Compuchem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/20/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MWB-2	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	DO
Key Number: 2246	INITIAL READING		16:55	15	1150	6.70	0.75 mg/L
Casing Diameter (in): 2	31	3	17:21	15	1150	6.60	
Well Depth (ft): 86.85							
Depth to water: 23.4							
Column length (ft): 63.45							
Column volume (gal): 10.3							
Total volume purged (gal): 31							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP (ST. PAULS)

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: PTLY CLOUDY, ~32°F

Sample Description: CLEAR, ODORLESS

Remarks: ORP = 008 mV

Sampler: MPH/DVS/CFH

Time sample collected: 17:39

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number: 98-203-T	Well# MWB-2

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St
Dayton, Ohio 45401

Date: 1/20/98
Inspectors: MPH/CFH/DVS
Pump #: St. Pauls whaler
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
16:45	32° F	Ptly Cloudy				dry

MONITORING

Instrument	Detector
N.A	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 10.3
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	23.40 / —	76.9	Clear	6.7 / 6.6	1150 / 1150
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	23.40	10.3	~30	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D. O.	~~Turbidity (NTU)~~	Depth to Water (ft)
16:55	~ 1 gpm	Initial	15	1150	6.7	0.75	ORP	23.40
17:21		31	15	1150	6.6		8	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
23.40	86.85	63.45	0.163	10.3	3	31

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MWB-2

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG	HCl	11	17:39	1/20/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MWB-3	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D. O.
Key Number: 2246	INITIAL READING		13:12	17°	260	10.2	0.4
Casing Diameter (in): 2	16	3	13:25	17°	1050	6.8	mg/L
Well Depth (ft): 55.75							
Depth to water: 23.54							
Column length (ft): 32.21							
Column volume (gal): 5.3							
Total volume purged (gal): 16							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP (ST. PAULS)

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, ~32° F

Sample Description: CLEAR, ODORLESS

Remarks: ORP = 088 mV

Sampler: MPH/DVS/CFH

Time sample collected: 13:35

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number: 98-203-T	Well# MWB-3

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St.
Dayton, Ohio 45401

Date: 1/21/98
Inspectors: MPH/CFH/DVS
Pump #: St. Pauls Whaler
Bladder #: N.A

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
1300	32° F	cloudy				dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 5.3
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	23.54 / -	45.8	clear	10.2 / 6.8	260 / 1050
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	23.54	5.3	~30	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~	Depth to Water (ft)
13:12	~1 gpm	Initial	17	260	10.2	0.4	ORP	23.54
13:25		16	17	1050	6.8		88	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
23.54	55.75	32.21	0.163	5.3	3	16

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MWB-3

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG		22	13:35	1/21/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/20/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MWB-4	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O
Key Number: 2246	INITIAL READING		13:45	13	645	6.95	2.4 mg/L
Casing Diameter (in): 2	6	3	14:01	14	640	6.85	
Well Depth (ft): ~~35~~ 34.95							
Depth to water: 24.0 - 0.65 = 23.35							
Column length (ft): 11.6							
Column volume (gal): 1.9							
Total volume purged (gal): 6							

Miscellaneous

Purge Method: DISPOSABLE BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, 30° F

Sample Description: LIGHT BROWN TINT, ODORLESS

Remarks: ORP = 047 mV

Sampler: MPH/DVS/CFH

Time sample collected: 14:10

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant:	Chrysler RFA Number:	Well# MWB-4
PROJECT:		Date: 1/20/98
LOCATION:		Inspectors: MPH/DVS/CFH
		Pump #: NA
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx) F°	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
13:45	30	Cloudy				

MONITORING

Instrument	Detector
NA	NA
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 1.9
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	23.35 / —	34.95	clear / light brown	6.95 / 6.85	645 / 640
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	23.35			

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ DO	Turbidity (NTU)	Depth to Water (ft)	ORP
13:45	bailed	Initial	13	645	6.95	2.4	clear	23.35	
14:01	↓	6	14	640	6.85		Light Brown	—	047

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
23.35	34.95	11.6	.163	1.9	3	5.7

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MWB-4

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3 / 40ml	P, G, AG	HCl	4	14:10	1/20/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: Compuchem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MWB-5	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O.
Key Number: 2246	INITIAL READING		8:55	16	620	7.5	0.9 mg/l
Casing Diameter (in): 2	35	3	9:20	16	1000	6.9	
Well Depth (ft): 89.90							
Depth to water: 22.85							
Column length (ft): 67.05							
Column volume (gal): 10.9							
Total volume purged (gal): 33							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP (MADISON)

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: PTLY CLOUDY, ~28°F E. WIND

Sample Description: Clear No Odor

Remarks: ORP = 009 mV

Sampler: MPH/DVS/CFH

Time sample collected: 9:20

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number: 98-203-T	Well# MWB-5

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St.
Dayton Ohio 45401

Date: 1/21/98
Inspectors: MPH/CFH/DVG
Pump #: Madisons whaler
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
8:55	28°F	Cloudy		breeze	East	dry

MONITORING

Instrument	Detector
NA	N.A

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 10.9
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.85 / —	79.9	Clear	7.5 / 6.9	620 / 1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.85	10.9	~25-30	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity~~ (NTU)	Depth to Water (ft)
8:55	~2 gpm	Initial	16	620	7.5	0.9	ORP	22.85
9:20		35	16	1000	6.9		9	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.85	89.9	67.05	0.163	10.9	3	32.7

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MWB-5

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3 / 40ml	P, G, AG	HCl	13	9:20	1/21/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/22/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MWB-6	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O
Key Number: 2246	INITIAL READING		8:58	18°	880	6.6	1.2 mg/l
Casing Diameter (in): 2	12	3	9:05	18°	940	6.7	
Well Depth (ft): 45.80							
Depth to water: 22.95							
Column length (ft): 22.85							
Column volume (gal): 3.7							
Total volume purged (gal): ~~15~~ 12							

Miscellaneous

Purge Method: DISPOSABLE BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, ~32°F, CALM

Sample Description: CLEAR, ODORLESS

Remarks: ORP = 062 mV

Sampler: MPH/DVS/CFH

Time sample collected: 9:06

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98-203-T | Well# MWB-6

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St
Dayton, Ohio 45401

Date: 1/22/98
Inspectors: MPH/CFH/DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
8:45	32° F	cloudy		Calm		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 3.7
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.95 ~~45.80~~ / —	35.8	Clear	6.6 / 6.7	880 / 940
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.95	3.7	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~	Depth to Water (ft)
8:58	bailed	Initial	18	880	6.6	1.2	ORP	22.95
9:05		12	18	940	6.7		62	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.95	45.8	22.85	0.163	3.7	3	11.1

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MWB-6

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, (G), AG	HCl	31	9:06	1/22/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/20/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MWC-1	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	ORP
Key Number: 2246	7	.5	10:30	15	555	7.60	
Casing Diameter (in): 2	45	3	11:10	15	340	9.40	-109 mV
Well Depth (ft): 112							
Depth to water: 16.63							
Column length (ft): 95.37							
Column volume (gal): 15							
Total volume purged (gal): 45							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP (ST. PAUL)

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, ~25°F

Sample Description: CLEAR, ODORLESS

Remarks: D.O. = 0.5 mg/L

Sampler: MPH/DVS/CFH

Time sample collected: 11:10

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

~~THL~~ 1/11

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 203-T | Well# MWC-1

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St
Dayton Ohio 45401

Date: 1/20/98
Inspectors: DVS/CFH/MPH
Pump #: St Paul's whaler
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
10:30	25°F	Cloudy				Dry

MONITORING

Instrument	Detector
NA	NA
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 15
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	16.63 / —		clear / clear	7.60 / 9.40	555 / 340
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	16.63	15	≈ 20-22	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)	ORP
10:30	1-2 gpm	~~5~~ 7	15	555	7.60	0.5	Clear	16.63	-109
11:10		45	15	340	9.40		clear	—	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
16.63	112	95.37	.163	15	3	45

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MWC-1

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG	HCl	2	11:10	1/20/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: ~~Cho~~ CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/20/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MWC-2	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	DO
Key Number: 2246	INITIAL READING		16:45	15°	400	7.15	0.7 mg/
Casing Diameter (in): 2	49	3	17:07	15°	570	7.0	
Well Depth (ft): 122							
Depth to water: 22.94							
Column length (ft): 99.06							
Column volume (gal): 16.2							
Total volume purged (gal): 48.6							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP (MADISONS)

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: PTLY CLOUDY, ~32°F

Sample Description: CLEAR, ODORLESS

Remarks: ORP = 001 mV

Sampler: MPH/DVS/CFH

Time sample collected: 17:15

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: CBG	Chrysler RFA Number: 98-203-T	Well# MWC-2

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St
Dayton Ohio 45401

Date: 1/20/98
Inspectors: MPH/CFH/DVS
Pump #: Madsens Whaler
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
16:45	32° F	cloudy				dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 16.2
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.94 / –	122.0	clear	7.15 / 7.0	400 / 570
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.94	16.2	~ 25-30	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
16:45	~2 gpm	Initial	15	400	7.15	0.7	ORP	22.94
17:07		49	15	570	7.0		1	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.94	122.0	99.06	0.163	3	16.2	48.6

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MWC-2

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG	HCl	10	17:15	1/20/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MWC-3	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O
Key Number: 2246	INITIAL READING		12:58	18°	760	8.2	0.9 mg/l
Casing Diameter (in): 2	30	3	1:14	17°	800	8.4	
Well Depth (ft): 84.0							
Depth to water: 23.63							
Column length (ft): 60.37							
Column volume (gal): 9.8							
Total volume purged (gal): 30							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP (MADISONS)

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, ~32° F

Sample Description: CLEAR, ODORLESS

Remarks: ORP = 085 mV

Sampler: MPH/DVS/CFH

Time sample collected: 13:30

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98203 T | Well# MWC-3

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St.
Dayton, Ohio 45401

Date: 1/21/98
Inspectors: MPH/CFH/DVS
Pump #: Madisons Wheeler
Bladder #: N.A

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
12:45	32°F	Cloudy				dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 9.8
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	23.63 / —	74.0	Clear	8.2 / 8.4	760 / 800
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	23.63	9.8	25-30	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
12:58	~2 gpm	Initial	18	760	8.2	0.9	ORP	
13:14		30	17	800	8.4		85	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
23.63	84.0	60.37	0.163	9.8	3	29.4

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MWC-3

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG	HCl	21	13:30	1/21/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MW-7B	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O.
Key Number: 2246	Initial	—	9:30	15	790	6.9	3.2 mg/l
Casing Diameter (in): 2	4	3	9:36	15	805	6.9	
Well Depth (ft): 29.9+.35 = 30.25							
Depth to water: 22.10							
Column length (ft): 8.15							
Column volume (gal): 1.3							
Total volume purged (gal): 4							

Miscellaneous

Purge Method: DISPOSABLE BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: PTLY CLOUDY, ~28°F, E. WIND

Sample Description: SILTY, BROWN TINT, ODORLESS

Remarks: ORP = 040 mV

Sampler: MPH/DVS/CFH

Time sample collected: 9:40

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number: 98203T	Well# MW-75

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster Street
Dayton, Ohio 45401

Date: 1/21/98
Inspectors: MPH/CEH/DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
930	28°F	PHy cloudy		wind	East	dry

MONITORING Instrument	MONITORING Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 1.3
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	~~30~~ 22.10 / –	20.3	silty brown tint	6.9 / 6.9	790 / 805
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.10	1.3	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~	Depth to Water (ft)
9:30	bailed	Initial	15	790	6.9	3.2	ORP	
9:36		4	15	805	6.9		40	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.10	30.25	8.15	0.163	1.3	3	3.9

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MW-7S

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3 40ml	P, G, AG	HCl	14	9:40	1/21/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHPY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: PZ-7I	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O.
Key Number: 2246	INITIAL READING		9:05	16°	810	7.00	0.75 mg/l
Casing Diameter (in): 2	16.5	3	9:19	16°	820	6.90	
Well Depth (ft): 55.35							
Depth to water: 21.84							
Column length (ft): 33.51							
Column volume (gal): 5.5							
Total volume purged (gal): 16.5							

Miscellaneous

Purge Method: SUBMERSABLE PUMP ST. PAULS

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: PTLY CLOUDY, ~28°F, E. WIND

Sample Description: CLEAR, ODORLESS

Remarks: ORP = 021 mV

Sampler: MPH/DVS/CFH

Time sample collected: 10:00

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-7I

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St.
Dayton Ohio 45401

Date: 1/21/98
Inspectors: MPH/CFH/DVS
Pump #: St. Paul's Wheeler
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
9:00	28°F	Pty cloudy		breeze	East	dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 5.5
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	21.84 / —	53.4	Clear	7.0 / 6.9	810 / 820
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	21.84	5.5	~25	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	~~Turbidity (NTU)~~	Depth to Water (ft)
9:05	~1 gpm	Initial	16	810	7.0	0.75	ORP	
9:19		16.5	16	820	6.9		21	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
21.84	55.35	33.51	0.163	5.5	3	16.5

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-7I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3 / 40ml	P, G, AG	HCl	15	10:00	1/21/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: Compuchem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/22/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MW-8S	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O
Key Number: 2246	INITIAL READING		9:51	19°	570	7.2	1.5 mg/l
Casing Diameter (in): 2	4	3	9:59	20°	600	7.0	
Well Depth (ft): 29.00							
Depth to water: 22.20							
Column length (ft): 6.80							
Column volume (gal): 1.1							
Total volume purged (gal): 3.3							

Miscellaneous

Purge Method: DISPOSABLE BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, 36°F, CALM

Sample Description: Very Silty, No odor

Remarks: ORP = 18 mV
COLLECTED DUPLICATE SAMPLE.

Sampler: MPH/DVS/CFH

Time sample collected: 10:05

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98-203-T | Well# MW-85

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St
Dayton Ohio 45401

Date: 1/22/98
Inspectors: MPH/CFH/DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
9:45	36°F	Cloudy		Calm		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 1.1
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.20 / –	19.0	Very silty	7.2 / 7.0	570 / 600
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.20	1.1	NA	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~	Depth to Water (ft)
9:51	bailed	Initial	19	570	7.2	1.5	ORP	
9:59		4	20	600	7.0		18	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.20	29.0	6.8	0.163	1.1	3	3.3

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MW-8s

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	6/40ml	P, G, AG	HCl	33	10:05	1/22/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Duplicate collected also

Sample Labels: Compuchem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/22/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: PZ-8I	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O.
Key Number: 2246	INITIAL READING		9:46	19°	840	7.8	0.8 mg/l
Casing Diameter (in): 2	8.1	3	9:57	19°	790	6.9	
Well Depth (ft): 38.40							
Depth to water: 21.90							
Column length (ft): 16.50							
Column volume (gal): 2.7							
Total volume purged (gal): 8.1							

Miscellaneous

Purge Method: DISPOSABLE BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: MOSTLY CLOUDY, 36°F, CALM

Sample Description: CLEAR, ODOR

Remarks:

Sampler: MPH/DVS/CFH

Time sample collected: 9:57

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98203-T | Well# PZ-8I

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St
Dayton, Ohio 45401

Date: 1/22/98
Inspectors: MPH/CFH/DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
9:30	36°F	cloudy		calm		

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 2.7
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	21.90 / –	36.4	clear	7.8 / 6.9	840 / 790
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	21.90	2.7	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	Eh D. O.	Turbidity (NTU)	Depth to Water (ft)
9:46	bailed	Initial	19	840	7.8	0.8		
9:57		8.1	19	790	6.9		clear	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
21.90	38.40	16.50	0.163	2.7	3	8.1

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: P2-8I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG	HCl	32	9:57	1/22/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/22/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: PZ-8D	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O
Key Number: 2246	INITIAL READING		9:41	18°	440	8.9	0.8 mg/l
Casing Diameter (in): 2	29	3	16:09	17°	1000	6.6	
Well Depth (ft): 78.65							
Depth to water: 21.20							
Column length (ft): 57.45							
Column volume (gal): 9.36							
Total volume purged (gal): ~~28.09~~ 29							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP ST. PAULS

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: MOSTLY CLOUDY, ~35°F, CALM

Sample Description: GREYISH TINT, NO REAL ODOR

Remarks: ORP = 5 mV

FIELD BLANK COLLECTED 10:10

Sampler: MPH/DVS/CFH	Time sample collected: 10:20

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98-203-T | Well# PZ-8D

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St.
Dayton, Ohio 45401

Date: 1/22/98
Inspectors: MPH/CFH/DVS
Pump #: St. Pauls whaler
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
9:30	35°F	cloudy		Calm		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 9.36
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	21.20 / —	76.7	Gray tint	8.9 / 6.6	440 / 1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	21.20	9.36	~25	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~	Depth to Water (ft)
9:41	~1 gpm	Initial	18	440	8.9	0.8	ORP	
10:09		29	17	1000	6.6		5	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
21.20	78.65	57.45	0.163	9.36	3	28.1

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-8D

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40 ml	P, G, AG	HCl	34	10:20	1/28/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/22/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: PZ-9D	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O.
Key Number: 2246	INITIAL READING		10:45	15°	950	7.0	0.75 mg/l
Casing Diameter (in): 2	22	3	11:05	15.5°	1000	6.6	
Well Depth (ft): 67.25+0.35 = 67.60							
Depth to water: 22.94							
Column length (ft): 44.66							
Column volume (gal): 7.3							
Total volume purged (gal): 22							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP (ST. PAULS)

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, 36°F, LT WIND

Sample Description: GRAY TINT, SLIGHT ODOR (SWAMPY)

Remarks: ORP = -33 mV

Sampler: MPH/DVS/CFH

Time sample collected: 11:21

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

ORP MW-10S = -34 or -12

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98203.T | Well# PZ-9D

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St.
Dayton, Ohio 45401

Date: 1/22/98
Inspectors: MPH/CFH/DVS
Pump #: St. Pauls Whaler
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
10:45	36°F	Cloudy		Lt Wind		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 7.3
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.94 / —	65.6	Gray tint	7.0 / 6.6	950 / 1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.94	7.3	~ 25	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~ ORP	Depth to Water (ft)
10:45	~1 gpm	Initial	15	950	7.0	0.75		
11:05		22	15.5	1000	6.6		-33	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.94	67.60	44.66	0.163	7.3	3	21.9

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-9D

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG	HCl	36	11:21	1/28/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/22/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MW-105	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	DO
Key Number: 2246	0	0	10:55	17°	1000	6.6	0.75
Casing Diameter (in): 2	4.5	1.5	11:06	17°	1000	6.6	mg/l
Well Depth (ft): 29.4							
Depth to water: ~~23.99~~ 23.40							
Column length (ft): ~~5.46~~ 6.0							
Column volume (gal): ~~.89~~ .98							
Total volume purged (gal): ~~2.67~~ 2.93							

Miscellaneous

Purge Method: Disposable bailer

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: Cloudy, 37°F

Sample Description: Gray, silty, No Odor

Remarks: ORP = -44 mV

Sampler: MPH/DVS/CFH

Time sample collected: 11:11

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98-203-T | Well# MW-10S

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St
Dayton, Ohio 45401

Date: 1/22/98
Inspectors: MPH / CFH / DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
10:55	37°F	Cloudy				dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = .98
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	23.40 / —	19.4	silty, gray	6.6 / 6.6	1000 / 1000
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	23.40	0.98	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~ ORP	Depth to Water (ft)
10:55	bailed	Initial	17	1000	6.6	0.75		
11:06		4.5	17	1000	6.6		-44	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
23.40	29.4	6.0	0.163	.98	3	2.93

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MW-10S

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3 / 40ml	P, G, AG	HCl	35	11:11	1/22/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/22/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: PZ-10I	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	DO
Key Number: 2246	0	0	10:59	18°	1200	6.7	0.40 mg/l
Casing Diameter (in): 2	13	3	11:32	18	1300	6.6	
Well Depth (ft): 49.9							
Depth to water: 23.38							
Column length (ft): 26.52							
Column volume (gal): 4.32							
Total volume purged (gal): 12.96							

Miscellaneous

Purge Method: Disposable bailer

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: Cloudy 37°F

Sample Description: ~~Gray, cloudy~~ Clear

Remarks: ORP = 18 mV

Sampler: MPH/DVS/CFH

Time sample collected: 11:33

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98.263.T | Well# PZ-10I

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St
Dayton Ohio 45401

Date: 1/22/98
Inspectors: MPH/CEH/DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
10:55	37°	cloudy				dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 4.32
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	23.38	47.9	Clear	6.7/6.6	1200/1300
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	23.38	4.32	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~ ORP	Depth to Water (ft)
10:59	bailed	Initial	18	1200	6.7	0.40	18	
11:32		13	18	1300	6.6			

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
23.38	49.9	26.52	0.163	4.32	3	12.96

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-101

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3 / 40ml	P, G, AG	HCl	37	11:33	1/22/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MW-11S	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O.
Key Number: 2246	INITIAL READING		13:27	19	880	7.0	0.3 mg/L
Casing Diameter (in): 2	3.0	3	13:45	19	800	6.9	
Well Depth (ft): 29.05							ORP
Depth to water: 23.55							086 mV
Column length (ft): 5.50							
Column volume (gal): 0.9							
Total volume purged (gal): 3.0							

Miscellaneous

Purge Method: DISPOSABLE BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, ~32°F, E. WIND

Sample Description: Cloudy brown

Remarks:

Sampler: MPH/DVS/CFH

Time sample collected: 13:45

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98-203-T | Well# MW-115

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St
Dayton Ohio 45401

Date: 1/21/98
Inspectors: MPH/CFH/DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
13:25	32°F	cloudy		lt wind	East	dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 0.9
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	23.55	19.1	cloudy brown	7.0/6.9	880/800
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	23.55	0.9	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity ~~(NTU)~~	Depth to Water (ft)
13:27	bailed	Initial	19	880	7.0	0.3	ORP	
13:45		3	19	800	6.9		86	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
23.55	29.05	5.5	0.163	0.9	3	2.7

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MW-11S

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40 ml	P, G, AG	HCl	23	13:45	1/21/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: PZ-12I	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O.
Key Number: 2246	INITIAL READING		11:26	17°	820	7.20	0.3
Casing Diameter (in): 2	17	3	11:35	17°	780	6.80	
Well Depth (ft): 57.85							
Depth to water: 23.59							
Column length (ft): 34.26							
Column volume (gal): 5.6							
Total volume purged (gal): 17							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP (ST. PAUL'S)

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: MOSTLY CLOUDY, ~32°F, E. WIND

Sample Description: CLEAR, ODORLESS

Remarks: ORP = 058

Sampler: MPH/DVS/CFH

Time sample collected: 11:47

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number: 98.203.T	Well# PZ-12I

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St.
Dayton Ohio 45401

Date: 1/21/98
Inspectors: MPH/CFH/DVS
Pump #: St. Pauls Whaler
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
1120	32° F	cloudy		lt wind	East	dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 5.6
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	23.59 / —	55.9	Clear	7.2 / 6.8	820 / 780
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	23.59	5.6	~25-30	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity ~~(NTU)~~	Depth to Water (ft)
11:26	~1gpm	Initial	17	820	7.2	0.3	ORP	
11:35		17	17	780	6.8		58	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
23.59	57.85	34.26	0.163	5.6	3	16.8

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG

Client: Dayton Thermal Products

Well #: PZ-12I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG	HCl	20	11:47	1/21/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals*		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: Compu Chem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						D.O.
Location ID: PZ-12D	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	0.75
Key Number: 2246	INITIAL READING		11:19	16	940	7.1	
Casing Diameter (in): 2	30	3	11:35	17	890	6.8	
Well Depth (ft): 84.45							
Depth to water: ~~23.11~~ 23.61							
Column length (ft): 61.34 60.84							
Column volume (gal): 10 9.92							
Total volume purged (gal): 30 29.7							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP (MADISONS)

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: MOSTLY CLOUDY, ~32°F E. WIND

Sample Description: Clear, No Odor

Remarks: ORP = 062

Sampler: MPH/DVS/CFH

Time sample collected: 11:40

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-12D
PROJECT: Dayton Thermal Products		Date: 1/21/98
LOCATION: 1600 Webster St.		Inspectors: MPH/CEH/DVS
Dayton Ohio 45401		Pump #: Madisons Whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
11:15	32°F	Cloudy		Wind	East	dry

MONITORING	
Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 9.9
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	23.61	82.5	Clear	7.1 / 6.8	940 / 890
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	23.61	9.9	25-30	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	Eh D.O.	Turbidity (NTU)	Depth to Water (ft)
11:19	~2gpm	Initial	16	940	7.1	0.75	ORP	
11:35		30	17	890	6.8		62	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
23.61	84.45	60.84	0.163	9.9	3	29.7

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG

Client: Dayton Thermal Products

Well #: PZ-12D

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3 / 40ml	P, G, AG	HCl	18	11:40	1/21/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: PZ-13I	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O
Key Number: 2246	INITIAL READING		14:11	19°	810	6.4	0.6
Casing Diameter (in): 2	12.3	3	14:22	19°	805	7.8	
Well Depth (ft): 48 (47.80)							
Depth to water: 23.08							
Column length (ft): 24.92 24.72							
Column volume (gal): 4.1 4.03							
Total volume purged (gal): 12.3 12.1							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP ST. PAULS

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, ~ 35°F, FLURRIES

Sample Description: CLEAR, ODORLESS

Remarks: ORP = 88 COLLECTED DUPLICATE SAMPLE.

Sampler: MPH/DVS/CFH

Time sample collected: 14:27

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98.203.T | Well# PZ-13 I

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St
Dayton Ohio 45401

Date: 1/21/98
Inspectors: MPH/CEH/DVS
Pump #: St. Pauls Whaler
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
14:10	35°F	Flurries		Wind		Wet

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 4.0
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	23.08	45.8	Clear	6.4 / 7.8	810 / 805
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	23.08	4.0		

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
14:11	~1 gpm	Initial	19	810	6.4	0.6	ORP	
14:22		12.3	19	805	7.8		88	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
23.08	47.80	24.72	0.163	~~4.03~~ 4.0	3	12

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-13I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	6/40ml	P, G, AG		24	14:27	1/21/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Duplicate collected also

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/22/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: PZ-14I	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O.
Key Number: 2246	INITIAL READING		08:12	17°	820	6.9	1.0
Casing Diameter (in): 2	18	3	8:38	18°	820	6.8	
Well Depth (ft): 59.90							
Depth to water: 23.50							
Column length (ft): 36.40							
Column volume (gal): 5.9							
Total volume purged (gal): 18							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP ST. PAULS

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, ~32°F, CALM

Sample Description: CLEAR, ODORLESS. SLIGHT SHEEN ON SURFACE?

Remarks: ORP = 165
COLLECTED DUPLICATE SAMPLE.

Sampler: MPH/DVS/CFH

Time sample collected: 8:44

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98.203.T | Well# PZ-14I

PROJECT: Dayton Thermal Products

LOCATION: 1600 Webster St. Dayton Ohio 45401

Date: 1/27/98

Inspectors: MPH/CEH/DVS

Pump #: St. Pauls Water

Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
8:10	32° F	cloudy		Calm		dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 5.9
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	23.50	57.9	clear	6.9/6.8	820/820
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	23.50	5.9	25-30	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	~~Turbidity (NTU)~~	Depth to Water (ft)
8:12	~1gpm	Initial	17	820	6.9	1.0	ORP	
8:38		18	18	820	6.8		65	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
23.50	59.9	36.4	0.163	5.9	3	17.7

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-14I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	6/40ml	P, G, AG	HCl	30	8:44	1/28/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Duplicate collected also

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MW-15S	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.C
Key Number: 2246	INITIAL READING		10:30	17°	610	7.1	4.5
Casing Diameter (in): 2	5.5	3	10:38	17°	640	7.2	
Well Depth (ft): 29.45							
Depth to water: 18.22							
Column length (ft): 11.23							
Column volume (gal): 1.8							
Total volume purged (gal): 5.5							

Miscellaneous

Purge Method: DISPOSABLE BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: FILTERED SUN, ~30°F, E. WIND

Sample Description: SILTY, BROWN TINT, ODORLESS

Remarks:

Sampler: MPH/DVS/CFH

Time sample collected: 10:45

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LJBG	Chrysler RFA Number: 98-203-T	Well# MW-15 S

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St
Dayton Ohio 45401

Date: 1/21/98
Inspectors: MPH/CFH/DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
10:30	30°F	cloudy		Wind	East	dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 1.8
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	18.22 / —	19.5	Silty, brown tint	7.1 / 7.2	610 / 640
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	18.22	1.8	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
10:30	bailed	Initial	17	610	7.1	4.5		
10:38		5.5	17	640	7.2			

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
18.22	29.45	11.23	0.163	1.8	3	5.4

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG

Client: Dayton Thermal Products

Well #: MW-15S

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG	HCl	16	10:45	1/21/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: PZ-15I	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O
Key Number: 2246	INITIAL READING		10:28	16°	840	6.95	0.3
Casing Diameter (in): 2	15.5	3	10:41	16°	870	6.90	
Well Depth (ft): 50.05							
Depth to water: 18.63							
Column length (ft): 31.42							
Column volume (gal): 5.1							
Total volume purged (gal): 15.5							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP (ST. PAULS)

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: PTLY CLOUDY (FILTERED SUN), ~30°F E. WIND

Sample Description: CLEAR, ODORLESS

Remarks: ORP = 087

Sampler: MPH/DVS/CFH

Time sample collected: 10:50

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number: 98.203.T	Well# PZ-15I
PROJECT: Dayton Thermal Products		Date: 1/21/98
LOCATION: 1600 Webster St		Inspectors: MPH/CFH/DVS
Dayton Ohio 45401		Pump #: St. Pauls Whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
10:25	30°F	cloudy		wind	East	dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 5.1
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	18.63	48.1	clear	6.95/6.9	840/870
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	18.63	5.1	20-25	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~	Depth to Water (ft)
11:28	~1gpm	Initial	16	840	6.95	0.3	ORP	
11:41		15.5	16	870	6.9		87	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
18.63	50.05	31.42	0.163	5.1	3	15.3

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-15I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG	HCl	18	10:50	1/21/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/22/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: PZ-16D	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.C
Key Number: 2246	INITIAL READING		13:09	16.5	990	6.9	0.5
Casing Diameter (in): 2	29.4	3	13:40	16.0	1200	6.8	
Well Depth (ft): 80.9							
Depth to water: 20.85							
Column length (ft): 60.05							
Column volume (gal): 9.8							
Total volume purged (gal): 29.4							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP ST. PAULS

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, 41°F

Sample Description: SLIGHTLY CLOUDY,

Remarks: ORP: -15

Sampler: MPH/DVS/CFH

Time sample collected: 13:45

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

111

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98.203.T | Well# PZ-16D

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St.
Dayton Ohio 45401

Date: 1/22/98
Inspectors: MPH/CEH/DVS
Pump #: St. Pauls Whaler
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
13:00	41°F	cloudy				dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 9.8
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	20.85	76.9	slightly cloudy	6.9/6.8	990/1200
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	20.85	9.8	~25	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
13:09	~1gpm	Initial	16.5	990	6.9	0.5	ORP	
13:40		29.4	16.0	1200	6.8		-15	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
20.85	80.9	60.05	0.163	9.8	3	29.4

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-16D

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG	HCl	39	13:45	1/22/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: PZ-17I	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O.
Key Number: 2246	INITIAL READINGS		15:24	18°	755	6.8	0.5
Casing Diameter (in): 2	17	3	15:38	18°	800	6.8	
Well Depth (ft): 57.65							
Depth to water: 22.90							
Column length (ft): 34.75							
Column volume (gal): 5.7							
Total volume purged (gal): 17							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP (ST. PAULS)

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, ~35°F, FLURRIES

Sample Description: CLEAR, ODORLESS ?

Remarks: ORP = 086

Sampler: MPH/DVS/CFH

Time sample collected: 15:41

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number: 98.203.T	Well# PZ-17I	
PROJECT: Dayton Thermal Products		Date: 1/21/98	
LOCATION: 1600 Webster St		Inspectors: MPH/CFH/DVS	
Dayton Ohio 45401		Pump #: St. Pauls Whaler	
		Bladder #: NA	

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
15:20	35°F	Flurries		Wind	East	Wet

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 5.7
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.90	55.7	Clear	6.8 / 6.8	755 / 800
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.90	5.7	~25	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity ~~(NTU)~~	Depth to Water (ft)
15:24	~1 gpm	Initial	18	755	6.8	0.5	ORP	
15:38		17	18	800	6.8		86	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.90	57.65	34.75	0.163	5.7	3	17

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: DAYTON THERMAL PRODUCTS | Well #: PZ-17I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG	HCl	27	15:41	1/21/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: PZ-17D	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O.
Key Number: 2246	INITIAL READINGS		15:28	17°	~~[illegible]~~ 1000	6.80	0.4
Casing Diameter (in): 2	18	~2	16:24	17°	1200	6.75	
Well Depth (ft): 84.25							
Depth to water: ~~30.95~~ 26.43							
Column length (ft): ~~53.30~~ 57.82							
Column volume (gal): ~~8.7~~ 9.4							
Total volume purged (gal): ~~[illegible]~~ ~~[illegible]~~ 18							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP (MADISONS), DRAWDOWN TO MUCH, SWITCHED TO BAILING W/ DISP. BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, ~35°F, FLURRIES

Sample Description: SILTY, BROWN TINT, ODORLESS.

Remarks: WELL IS BAILING DOWN - ALMOST DRY. WELL PURGED DRY AFTER ~2 VOLUMES REMOVED. LET RECHARGE ~~[illegible]~~ PARTIALLY, COLLECTED SAMPLE

Sampler: MPH/DVS/CFH	Time sample collected: 16:24

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number: 98-203-T	Well# PZ-17D

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St
Dayton, Ohio 45401

Date: 1/21/98
Inspectors: MPH/CFH/DVS
Pump #: Madisons Wheater
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
15:25	35° F	Flurries/				wet to
		Quit Snowing				damp
		calm				

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2"	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 9.4
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	26.43	82.3	Silty / brown tint	6.8 / 6.75	1000 / 1200
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	26.43	9.4	30-45	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
15:28	~1gpm	Initial	17	1000	6.8	0.4		
16:24	bailed	18	17	1200	6.75			
Pumped well ~~to~~ until broke suction then bailed the well dry after 2 Volumes								

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
26.43	84.25	57.82	0.163	9.4	3	28.2
					bailed dry after 2 Volumes	
					V. slow recharge	

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-17D

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG	HCl	28	16:24	1/21/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/20/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MW-18s	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	DO
Key Number: 2246	INITIAL READING		17:46	15	500	6.75	7 mg
Casing Diameter (in): 2	3	3	17:53	15	500	6.75	
Well Depth (ft): 29.6							
Depth to water: 23.79							
Column length (ft): 5.81							
Column volume (gal): 1.0							
Total volume purged (gal): 3							

Miscellaneous

Purge Method: DISPOSABLE BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: PTLY CLOUDY, ~32°F

Sample Description: SILTY, BROWN TINT, ODORLESS

Remarks:

Sampler: MPH/DVS/CFH

Time sample collected: 17:55

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98.203.T | Well# MW-18S

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St
Dayton Ohio 45401

Date: 1/20/98
Inspectors: MPH/CFH/DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
17:40	32° F	Cloudy				dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 1.0
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	23.79	19.6	Silty - brown tint	6.75 / 6.75	500 / 500
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	23.79	1.0	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
17:46	bailed	Initial	15	500	6.75	7		
17:53		3	15	500	6.75			

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
23.79	29.6	5.81	0.163	1	3	3

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: DAYTON THERMAL PRODUCTS | Well #: MW-18S

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG	HCl	12	17:55	1/20/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/20/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MW-19B	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	DO
Key Number: 2246	INITIAL READING	1	14:31	14	540	7.20	3.8
Casing Diameter (in): 2	1	~2	14:43	14.5	500	7.10	
Well Depth (ft): 23.4							
Depth to water: 21.0-1.17 = 19.83							
Column length (ft): 3.57							
Column volume (gal): 0.6							
Total volume purged (gal): 1							

Miscellaneous

Purge Method: DISPOSABLE BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, 32°F

Sample Description: SLIGHTLY SILTY, LIGHT BROWN TINT, ODORLESS

Remarks: D.O. = 3.8 mg/L WELL PURGED DRY AFTER ~1.5 VOLUMES REMOVED. LET RECHARGE, THEN SAMPLED. VERY SLOW RECHARGE.

Sampler: MPH/DVS/CFH	Time sample collected: 14:50

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98-203.7 | Well# MW-195

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St
Dayton Ohio 45401

Date: 1/20/98
Inspectors: MPH/CFH/DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
14:30	32° F	cloudy				dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 0.6
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	19.83	13.40	Slightly silty brown tint	7.2 / 7.1	540 / 500
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	19.83	0.6	NA	NA

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O	Turbidity (NTU)	Depth to Water (ft)
14:31	bailed		14	540	7.2	3.8		
14:43			14.5	500	7.1			

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
19.83	23.4	3.57	0.163	0.6	3	1.8
					bailed dry after 1.5 Volumes	
					V. slow recharge	

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: MW-19S

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA	2/40ml	P, G, AG	HCl	6	14:50	1/20/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/20/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: PZ-19I	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	DO
Key Number: 2246	INITIAL READING		14:55	14.5	500	6.95	1.0
Casing Diameter (in): 2	20.1	3	15:11	14.5	510	6.95	ORP
Well Depth (ft): 62.15							055
Depth to water: 23.0 - 1.69 = 21.31							
Column length (ft): 40.84							
Column volume (gal): 6.7							
Total volume purged (gal): 20.1							

Miscellaneous

Purge Method: SUBMERSABLE PUMP (Madisons)

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, ~32°F

Sample Description: BROWN TINT

Remarks: COLLECTED DUPLICATE SAMPLE

Sampler: MPH/DVS/CFH

Time sample collected: 15:27

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Chrysler RFA Number: 98.203.T | Well# PZ-19I

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St
Dayton Ohio 45401

Date: 1/20/98
Inspectors: MPH/CFH/DVS
Pump #: Madisons Whaler
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
14:50	32°F	Cloudy				dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 6.7
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	21.31	60.2	brown tint	6.95/6.95	500/510
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	21.31	6.7	~25	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~	Depth to Water (ft)
14:55	~2 gpm	Initial	14.5	500	6.95	1.0	ORP	
15:11		20.1	14.5	510	6.95		55	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
21.31	62.15	40.84	0.163	6.7	3	20.1

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG

Client: Dayton Thermal Products

Well #: PZ-19I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	6/40ml	P, G, AG	HCl	7	15:27	1/20/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Duplicate collected @ this location

Sample Labels: Compuchem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/20/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: MW-205	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	DO
Key Number: 2246	INITIAL READING		15:51	15.5	640	6.85	2.8
Casing Diameter (in): 2	4	3	16:00	15.0	640	6.60	
Well Depth (ft): 27.8							
Depth to water: 20.12							
Column length (ft): 7.68							
Column volume (gal): 1.3							
Total volume purged (gal): 4							

Miscellaneous

Purge Method: DISPOSABLE BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: PTLY CLOUDY, ~32°F

Sample Description: SLIGHTY BROWN TINT, ODORLESS

Remarks: ORP = 044

Sampler: MPH/DVS/CFH

Time sample collected: 16:00

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number: 97-203-T	Well# MW-205

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St
Dayton Ohio 45401

Date: 1/20/97
Inspectors: MPH/CFH/DVS
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
15:50	32°	Cloudy				dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 1.3
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	20.12	17.8	silty, brown tint	6.85/6.6	640/640
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	20.12	1.3	NA	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~	Depth to Water (ft)
15:51	bailed	Initial	15.5	640	6.85	2.8	ORP	
16:00		4	15	640	6.6		44	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
20.12	27.8	7.68	0.163	1.3	3	3.9

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: MW-205

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40 ml	P, G, AG	HCl	8	16:10	1/20/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/20/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: PZ-20D	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O.
Key Number: 2246	INITIAL READING		15:55	14	660	7.0	0.4
Casing Diameter (in): 2	32	3	16:16	14	620	6.8	
Well Depth (ft): 84.9							
Depth to water: 20.01							
Column length (ft): 64.89							
Column volume (gal): 10.6							
Total volume purged (gal): 32							

Miscellaneous

Purge Method: SUBMERSIBLE PUMP (Madisons whaler)

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: PTLY CLOUDY, ~32°F

Sample Description: SILTY, BROWN TINT, ODORLESS

Remarks: ORP = 096

Sampler: MPH/DVS/CFH

Time sample collected: 16:15

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number:	Well# PZ-20D
PROJECT: Dayton Thermal Products		Date: 1/20/98
LOCATION: 1600 Webster St		Inspectors: MPH/CEH/DVS
Dayton Ohio 45401		Pump #: Madison Whaler
		Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
15:55	32°F	Cloudy				dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 10.6
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	20.01	82.9	silty, brown tint	7.0 / 6.8	660 / 620
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	20.01	10.6	~25	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	~~Turbidity (NTU)~~ ORP	Depth to Water (ft)
15:55	~2 gpm	Initial	14	660	7.0	0.4	96	
16:16		32	14	620	6.8			

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
20.01	84.9	64.89	0.163	10.6	3	31.8

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Client: Dayton Thermal Products	Well #: PZ-20D

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG	HCl	9	16:15	1/20/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHPY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/20/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: PZ-21I	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	ORP
Key Number: 2246	10	2	1401		700	8.6	
Casing Diameter (in): 2	16	3	14:15	14°	500	7.2	59
Well Depth (ft): 54.5							
Depth to water: 22.86							
Column length (ft): 31.64 x0.163							
Column volume (gal): 5.16							
Total volume purged (gal): 16							

Miscellaneous

Purge Method: Whaler Pump (Madisons)

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: cloudy ≈ 28°F westerly breeze

Sample Description: slightly cloudy brown

Remarks: D.O. = 1.0

Sampler: MPH/DVS/CFH

Time sample collected: 14:15

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number: 98.203.T	Well# PZ-21I

PROJECT: Dayton Thermal Products
LOCATION: 1600 Webster St, Dayton, Ohio

Date: 1/20/98
Inspectors: MPH/CFH/DVS
Pump #: Madisons Whaler
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
1400	29°F	cloudy		breeze	west	dry

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = 5.16
Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	22.86	52.5	slightly cloudy brown	8.6 / 7.2	800 / 500
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	22.86	5.16	~25	

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	Eh D.O.	Turbidity (NTU)	Depth to Water (ft)
1401	~2 gpm	10		800	8.6	-1.0	ORP	
1415		16	14	500	7.2		59	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
22.86	54.5	31.64	0.163	5.16	3	15.5

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG

Client: Dayton Thermal Products

Well #: PZ-21I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3 / 40ml	P, G, AG	HCl	5	14:15	1/20/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: CompuChem

SAMPLING DATE:

S-ID#:

ANALYZE FOR/CODE:

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/20/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data						
Location ID: PZ-22I	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH	D.O
Key Number: 2246	–	0	12:47	15.0	440	6.80	1.25
Casing Diameter (in): 2	13	3	13:04	14.5	460	6.90	
Well Depth (ft): 44.5							
Depth to water: 21.0 - 2.34 = 18.66							
Column length (ft): 25.84							
Column volume (gal): 4.2							
Total volume purged (gal): 13							

Miscellaneous

Purge Method: DISP. BAILER

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: CLOUDY, ~30°F

Sample Description: BROWN TINT, ODORLESS

Remarks:

Sampler: MPH/DVS/CFH

Time sample collected: 13:15

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

CHRYSLER CORPORATION SAMPLING RECORD - GROUNDWATER

Consultant: LBG	Chrysler RFA Number: 98-203-T	Well# PZ-22I

PROJECT: DAYTON THERMAL PRODUCTS
LOCATION: DAYTON, OH

Date: 1/20/98
Inspectors: MPH, CFH
Pump #: NA
Bladder #: NA

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Apprx)	Rel. Humidity (Gen)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
	30°F	CLOUDY				DRY

MONITORING

Instrument	Detector
NA	NA

WELL DIAMETER FACTOR

Diameter (inches):	1	1.5	2	3	4	5	6	7	8	9	10
Gallons/Foot:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

Standing Water Volume = Well Diameter Factor × Water Column

HISTORIC DATA	Initial/Final Depth to Water (ft)	Depth to Top of Screen (ft)	Initial/Final Turbidity	Initial/Final pH	Initial/Final Spec. Cond.
	18.66	42.5	BROWN TINT / BROWN TINT	6.80 / 6.90	440 / 460
DATA COLLECTED AT WELL SITE	PID Reading (Opening Well)	Static Water Level (ft)	Calculated Standing Water Vol. (Gal)	Depth to Pump Intake (ft)	Pumping Start Time (24 hr)
	NA	18.66	4.2	~20-22	12:47

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

Time (min)	Pumping Rate (l/min)	Cumulative Vol. (Gallons)	Temperature (C)	Spec. Cond. (umbos)	pH	~~Eh~~ D.O.	Turbidity (NTU)	Depth to Water (ft)
12:47	BAILED	INITIAL	15.0	440	6.8	1.25	BRN TINT	
13:04	"	3	14.5	460	6.9		" "	

1 Water Level to Top of Well Casing (ft)	2 Top of Casing to Bottom of Casing (ft)	3 Column of Standing Water in Well (ft) (2 minus 1)	4 Well Diameter Factor	5 Volume in Gallons (3×4)	6 Number of Well Volumes to be Evacuated	7 Total Volume to be Evacuated (Gallons) (5×6)
18.66	44.5	25.84	.163	4.2	3	13

* Use this chart to calculate total purge volume when conducting standard purging activities of 3 to 5 well volumes

CHRYSLER CORPORATION

SAMPLING RECORD - GROUNDWATER

Consultant: LBG | Client: Dayton Thermal Products | Well #: PZ-22I

Sampling Order		Bottles			Sample Number	Time	Checked By/Date
		Count/Volume	Type	Preserv.			
1	VOA 8260	3/40ml	P, G, AG	HCl	3	13:15	1/20/98
1A	BTEX		P, G, AG				
2	SVOC		P, G, AG				
2A	PAHs		P, G, AG				
2B	TPH		P, G, AG				
3	HERB		P, G, AG				
4	Pest/PCB		P, G, AG				
5	Total metals		P, G, AG				
6	Filtered Metals		P, G, AG				

COMMENTS: Bottle counts are tripled if MS/MSD samples are collected.

* Justification for Filtration:

Sample Labels: Compuchem

S-ID#: _____ SAMPLING DATE: _____

ANALYZE FOR/CODE: _____

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/21/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data					
Location ID: Field Blank	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH
Key Number: 2246	NA	NA	NA ~~09:15~~	NA	NA	NA
Casing Diameter (in): 2						
Well Depth (ft): NA						
Depth to water:						
Column length (ft):						
Column volume (gal):						
Total volume purged (gal):						

Miscellaneous

Purge Method: NA

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: Cloudy ~28° East wind

Sample Description:

Lab D.I. water

Remarks:

Sampler: MPH/DVS/CFH

Time sample collected: 09:15

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112

GROUND-WATER SAMPLING DATA SHEET

Client Code: 3CHRY4	Project Title: Dayton Thermal Products
Job Code: DAYTON	Address: 1600 Webster Street
Date: 1/22/98	City, State, Zip: Dayton, OH

General Data	Stabilization Data					
Location ID: Field Blank	Volume (gallons)	Well volumes	Time	Temp. C	SC umhos	pH
Key Number: 2246	NA	NA	NA ~~10:17~~	NA	NA	NA
Casing Diameter (in): 2						
Well Depth (ft): NA						
Depth to water:						
Column length (ft):						
Column volume (gal):						
Total volume purged (gal):						

Miscellaneous

Purge Method: NA

Sampling Method: Polyethylene disposable bailer

Analysis requested: VOCs 8260 (RFA# YGQP9800203-T)

Weather Conditions: Mostly cloudy ≈35° calm

Sample Description: Lab D.I. Water

Remarks:

Sampler: MPH/DVS/CFH

Time sample collected: 10:11

Leggette, Brashears & Graham, Inc.
1210 West County Road E
St Paul, Minnesota 55112