Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis. .

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
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|---|---|
| **B** | Value is <CRDL, but ≥IDL |
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| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
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| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166651**

**MW20S-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 14:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:37
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-20S- SDG#: DCN86-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 15:00 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 15:00 | Trent S Sprenkle | n.a. |

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| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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| | |
|---|---|
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| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
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| **P** | Concentration difference between primary and confirmation columns >25% |
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| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166652**

**MWA001-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 14:10 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:37
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

A001- SDG#: DCN86-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | 23. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | 28. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 170. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 2,300. | 20. | ug/l | 25 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 590. | 20. | ug/l | 25 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | 1. J | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 120. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | 440. | 20. | ug/l | 25 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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Reported: 12/01/2003 at 10:37
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

A001- SDG#: DCN86-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

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|---|---|---|---|---|---|---|
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| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 22:00 | Trent S Sprenkle | 25 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 15:23 | Trent S Sprenkle | n.a. |

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

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166653**

**MW19S-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 15:15 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:37
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-19S- SDG#: DCN86-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 1. J | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** *estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).*

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | *Analyte was also detected in the blank* |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | *Estimated due to interference* |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166653**

**MW19S-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 15:15 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:37
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-19S- SDG#: DCN86-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/24/2003 09:35 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/24/2003 09:35 | Trent S Sprenkle | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value -- The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166654**

**MW7S-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 10:50 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:37
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

--7S- SDG#: DCN86-05

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 3. | J | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 2. | J | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 75. | | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
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**Organic Qualifiers**

| | |
|---|---|
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**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166654**

**MW7S-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 10:50 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:37
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

--7S- SDG#: DCN86-05

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 16:09 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 16:09 | Trent S Sprenkle | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| | |
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**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166655**

**PZ7I-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 10:50 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:37
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-7I-- SDG#: DCN86-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 7. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
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| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166655**

**PZ7I-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 10:50 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:37
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-7I-- SDG#: DCN86-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 16:32 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 16:32 | Trent S Sprenkle | n.a. |

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2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
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**ppb** parts per billion

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**Organic Qualifiers**

| | |
|---|---|
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| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166656**

**MW15S-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 09:50 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:37
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-15S- SDG#: DCN86-07

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 1. | J | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | 98. | | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

Lancaster Laboratories
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# Explanation of Symbols and Abbreviations

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| | |
|---|---|
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| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166656**

**MW15S-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 09:50 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:37
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-15S- SDG#: DCN86-07

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 16:55 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 16:55 | Trent S Sprenkle | n.a. |

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166657**

**PZ15I-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 09:45 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-15I- SDG#: DCN86-08

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | *TCL by 8260 (water)* | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | 1. | J | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | 3. | J | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 7. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 27. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 16. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | 4. | J | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 2. | J | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | 49. | | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166657**

**PZ15I-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 09:45 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-15I- SDG#: DCN86-08

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 17:18 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 17:18 | Trent S Sprenkle | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166658**

**MWA03-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 12:50 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-A03- SDG#: DCN86-09

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | 1. | J | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | 9. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | 81. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | 11. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 81. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 290. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | 1. | J | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 990. | | 8. | ug/l | 10 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 370. | | 10. | ug/l | 10 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | 680. | | 8. | ug/l | 10 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | 11. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**J** *estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).*

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
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| **D** | Compound quantitated on a diluted sample |
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| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166658**

**MWA03-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 12:50 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-A03- SDG#: DCN86-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 17:41 | Trent S Sprenkle | 1 |
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/24/2003 09:58 | Trent S Sprenkle | 10 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 17:41 | Trent S Sprenkle | n.a. |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 2 | 11/24/2003 09:58 | Trent S Sprenkle | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166659**

**MW34S-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 14:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-34S- SDG#: DCN86-10

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | 10. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | 0.9 | J | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 16. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 220. | | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | 1. | J | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
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| | |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166659**

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Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-34S- SDG#: DCN86-10

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 18:04 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 18:04 | Trent S Sprenkle | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**Organic Qualifiers**

| | |
|---|---|
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**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
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| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166660**

**PZ34I-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 15:30 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-34I- SDG#: DCN86-11

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
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| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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Livonia MI 48153-7933

-34I- SDG#: DCN86-11

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 18:27 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 18:27 | Trent S Sprenkle | n.a. |



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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166661**

**PZ34D-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 14:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

--34D SDG#: DCN86-12

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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| | |
|---|---|
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**Inorganic Qualifiers**

| | |
|---|---|
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166661**

**PZ34D-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 14:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

--34D SDG#: DCN86-12

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 18:50 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 18:50 | Trent S Sprenkle | n.a. |

Lancaster Laboratories
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| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
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**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
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| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
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| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166662**

**TW13-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 14:45 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T13-- SDG#: DCN86-13

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | 0.8 | J | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 1. | J | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

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PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| **meq** | milliequivalents | **lb.** | pound(s) |
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| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166662**

**TW13-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 14:45 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T13-- SDG#: DCN86-13

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 19:14 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 19:14 | Trent S Sprenkle | n.a. |

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2425 New Holland Pike
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Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166663**

**PZ019I-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 08:50 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-019I SDG#: DCN86-14

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 4. | J | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 16. | | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166663**

**PZ019I-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 08:50 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-019I SDG#: DCN86-14

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 19:37 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 19:37 | Trent S Sprenkle | n.a. |

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2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value -- The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166664**

**MWET6-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 16:40 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-ET6- SDG#: DCN86-15

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 2. | J | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

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2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
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| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166664**

**MWET6-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 16:40 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-ET6- SDG#: DCN86-15

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 20:00 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 20:00 | Trent S Sprenkle | n.a. |

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Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166665**

**MWC001-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 16:40 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-C001 SDG#: DCN86-16

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
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| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**>** greater than

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
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**Inorganic Qualifiers**

| | |
|---|---|
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166665**

**MWC001-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 16:40 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-C001 SDG#: DCN86-16

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 20:23 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 20:23 | Trent S Sprenkle | n.a. |

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

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2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
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| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**ppb** parts per billion

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
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**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
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| **N** | Spike sample not within control limits |
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| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166666**

**MWB001-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 17:05 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-B001 SDG#: DCN86-17

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**>** greater than

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**ppb** parts per billion

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**Organic Qualifiers**

| | |
|---|---|
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**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166666**

**MWB001-111703 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 17:05 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-B001 SDG#: DCN86-17

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 20:46 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 20:46 | Trent S Sprenkle | n.a. |

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# Explanation of Symbols and Abbreviations

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|---|---|---|---|
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**Inorganic Qualifiers**

| | |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166667**

**Trip_Blank Water Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected: n.a.

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

TBDAY SDG#: DCN86-18TB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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# Explanation of Symbols and Abbreviations

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Lancaster Laboratories



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**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected: n.a.

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:38
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

TBDAY SDG#: DCN86-18TB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 21:09 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 21:09 | Trent S Sprenkle | n.a. |

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Lancaster Laboratories



# Quality Control Summary

Client Name: DaimlerChrysler Corporation  Group Number: 875304
Reported: 12/01/03 at 10:38 AM

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Batch number: Y033271AA | Sample number(s): 4166650-4166652,4166654-4166667 | | | | | | | |
| Methyl Tertiary Butyl Ether | N.D. | 0.5 | ug/l | 95 | 96 | 77-127 | 1 | 30 |
| Chloromethane | N.D. | 1. | ug/l | 83 | 83 | 69-136 | 0 | 30 |
| Vinyl Chloride | N.D. | 1. | ug/l | 92 | 91 | 71-129 | 1 | 30 |
| Bromomethane | N.D. | 1. | ug/l | 64 | 63 | 46-138 | 0 | 30 |
| Chloroethane | N.D. | 1. | ug/l | 73 | 71 | 59-133 | 3 | 30 |
| 1,1-Dichloroethene | N.D. | 0.8 | ug/l | 97 | 95 | 79-130 | 2 | 30 |
| Methylene Chloride | N.D. | 2. | ug/l | 98 | 97 | 80-128 | 0 | 30 |
| trans-1,2-Dichloroethene | N.D. | 0.8 | ug/l | 96 | 94 | 81-124 | 2 | 30 |
| 1,1-Dichloroethane | N.D. | 1. | ug/l | 99 | 98 | 83-127 | 1 | 30 |
| cis-1,2-Dichloroethene | N.D. | 0.8 | ug/l | 95 | 95 | 84-117 | 1 | 30 |
| Chloroform | N.D. | 0.8 | ug/l | 99 | 96 | 86-124 | 2 | 30 |
| 1,1,1-Trichloroethane | N.D. | 0.8 | ug/l | 99 | 98 | 83-127 | 1 | 30 |
| Carbon Tetrachloride | N.D. | 1. | ug/l | 100 | 98 | 77-130 | 2 | 30 |
| Benzene | N.D. | 0.5 | ug/l | 98 | 96 | 85-117 | 2 | 30 |
| 1,2-Dichloroethane | N.D. | 1. | ug/l | 104 | 103 | 77-132 | 1 | 30 |
| Trichloroethene | N.D. | 1. | ug/l | 97 | 95 | 87-117 | 2 | 30 |
| 1,2-Dichloropropane | N.D. | 1. | ug/l | 96 | 95 | 80-117 | 1 | 30 |
| Bromodichloromethane | N.D. | 1. | ug/l | 97 | 95 | 83-121 | 2 | 30 |
| Toluene | N.D. | 0.7 | ug/l | 95 | 93 | 85-115 | 2 | 30 |
| 1,1,2-Trichloroethane | N.D. | 0.8 | ug/l | 96 | 94 | 86-113 | 2 | 30 |
| Tetrachloroethene | N.D. | 0.8 | ug/l | 102 | 98 | 82-126 | 4 | 30 |
| Dibromochloromethane | N.D. | 1. | ug/l | 94 | 92 | 78-119 | 2 | 30 |
| Chlorobenzene | N.D. | 0.8 | ug/l | 98 | 95 | 85-115 | 3 | 30 |
| Ethylbenzene | N.D. | 0.8 | ug/l | 98 | 96 | 82-119 | 2 | 30 |
| Styrene | N.D. | 1. | ug/l | 96 | 94 | 84-117 | 2 | 30 |
| Bromoform | N.D. | 1. | ug/l | 93 | 94 | 63-122 | 1 | 30 |
| 1,1,2,2-Tetrachloroethane | N.D. | 1. | ug/l | 95 | 95 | 72-119 | 0 | 30 |
| Acetone | N.D. | 6. | ug/l | 104 | 99 | 22-179 | 5 | 30 |
| Carbon Disulfide | N.D. | 1. | ug/l | 95 | 94 | 80-139 | 1 | 30 |
| 2-Butanone | N.D. | 3. | ug/l | 103 | 101 | 45-154 | 2 | 30 |
| trans-1,3-Dichloropropene | N.D. | 1. | ug/l | 93 | 92 | 79-114 | 1 | 30 |
| cis-1,3-Dichloropropene | N.D. | 1. | ug/l | 95 | 94 | 78-114 | 1 | 30 |
| 4-Methyl-2-pentanone | N.D. | 3. | ug/l | 99 | 98 | 65-125 | 1 | 30 |
| 2-Hexanone | N.D. | 3. | ug/l | 102 | 101 | 49-141 | 1 | 30 |
| Xylene (Total) | N.D. | 0.8 | ug/l | 100 | 97 | 84-120 | 2 | 30 |
| Batch number: Y033271AB | Sample number(s): 4166653,4166658 | | | | | | | |
| Methyl Tertiary Butyl Ether | N.D. | 0.5 | ug/l | 95 | 96 | 77-127 | 1 | 30 |
| Chloromethane | N.D. | 1. | ug/l | 83 | 83 | 69-136 | 0 | 30 |
| Vinyl Chloride | N.D. | 1. | ug/l | 92 | 91 | 71-129 | 1 | 30 |
| Bromomethane | N.D. | 1. | ug/l | 64 | 63 | 46-138 | 0 | 30 |
| Chloroethane | N.D. | 1. | ug/l | 73 | 71 | 59-133 | 3 | 30 |
| 1,1-Dichloroethene | N.D. | 0.8 | ug/l | 97 | 95 | 79-130 | 2 | 30 |
| Methylene Chloride | N.D. | 2. | ug/l | 98 | 97 | 80-128 | 0 | 30 |
| trans-1,2-Dichloroethene | N.D. | 0.8 | ug/l | 96 | 94 | 81-124 | 2 | 30 |
| 1,1-Dichloroethane | N.D. | 1. | ug/l | 99 | 98 | 83-127 | 1 | 30 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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# Quality Control Summary

Client Name: DaimlerChrysler Corporation Group Number: 875304
Reported: 12/01/03 at 10:38 AM

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | N.D. | 0.8 | ug/l | 95 | 95 | 84-117 | 1 | 30 |
| Chloroform | N.D. | 0.8 | ug/l | 99 | 96 | 86-124 | 2 | 30 |
| 1,1,1-Trichloroethane | N.D. | 0.8 | ug/l | 99 | 98 | 83-127 | 1 | 30 |
| Carbon Tetrachloride | N.D. | 1. | ug/l | 100 | 98 | 77-130 | 2 | 30 |
| Benzene | N.D. | 0.5 | ug/l | 98 | 96 | 85-117 | 2 | 30 |
| 1,2-Dichloroethane | N.D. | 1. | ug/l | 104 | 103 | 77-132 | 1 | 30 |
| Trichloroethene | N.D. | 1. | ug/l | 97 | 95 | 87-117 | 2 | 30 |
| 1,2-Dichloropropane | N.D. | 1. | ug/l | 96 | 95 | 80-117 | 1 | 30 |
| Bromodichloromethane | N.D. | 1. | ug/l | 97 | 95 | 83-121 | 2 | 30 |
| Toluene | N.D. | 0.7 | ug/l | 95 | 93 | 85-115 | 2 | 30 |
| 1,1,2-Trichloroethane | N.D. | 0.8 | ug/l | 96 | 94 | 86-113 | 2 | 30 |
| Tetrachloroethene | N.D. | 0.8 | ug/l | 102 | 98 | 82-126 | 4 | 30 |
| Dibromochloromethane | N.D. | 1. | ug/l | 94 | 92 | 78-119 | 2 | 30 |
| Chlorobenzene | N.D. | 0.8 | ug/l | 98 | 95 | 85-115 | 3 | 30 |
| Ethylbenzene | N.D. | 0.8 | ug/l | 98 | 96 | 82-119 | 2 | 30 |
| Styrene | N.D. | 1. | ug/l | 96 | 94 | 84-117 | 2 | 30 |
| Bromoform | N.D. | 1. | ug/l | 93 | 94 | 63-122 | 1 | 30 |
| 1,1,2,2-Tetrachloroethane | N.D. | 1. | ug/l | 95 | 95 | 72-119 | 0 | 30 |
| Acetone | N.D. | 6. | ug/l | 104 | 99 | 22-179 | 5 | 30 |
| Carbon Disulfide | N.D. | 1. | ug/l | 95 | 94 | 80-139 | 1 | 30 |
| 2-Butanone | N.D. | 3. | ug/l | 103 | 101 | 45-154 | 2 | 30 |
| trans-1,3-Dichloropropene | N.D. | 1. | ug/l | 93 | 92 | 79-114 | 1 | 30 |
| cis-1,3-Dichloropropene | N.D. | 1. | ug/l | 95 | 94 | 78-114 | 1 | 30 |
| 4-Methyl-2-pentanone | N.D. | 3. | ug/l | 99 | 98 | 65-125 | 1 | 30 |
| 2-Hexanone | N.D. | 3. | ug/l | 102 | 101 | 49-141 | 1 | 30 |
| Xylene (Total) | N.D. | 0.8 | ug/l | 100 | 97 | 84-120 | 2 | 30 |

## Sample Matrix Quality Control

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: Y033271AA | Sample number(s): 4166650-4166652,4166654-4166667 | | | | | | | | |
| Methyl Tertiary Butyl Ether | 99 | | 69-134 | | | | | | |
| Chloromethane | 91 | | 70-148 | | | | | | |
| Vinyl Chloride | 98 | | 64-148 | | | | | | |
| Bromomethane | 66 | | 52-140 | | | | | | |
| Chloroethane | 73 | | 63-142 | | | | | | |
| 1,1-Dichloroethene | 110 | | 78-146 | | | | | | |
| Methylene Chloride | 104 | | 79-133 | | | | | | |
| trans-1,2-Dichloroethene | 105 | | 82-133 | | | | | | |
| 1,1-Dichloroethane | 107 | | 85-135 | | | | | | |
| cis-1,2-Dichloroethene | 101 | | 83-126 | | | | | | |
| Chloroform | 105 | | 82-131 | | | | | | |
| 1,1,1-Trichloroethane | 108 | | 82-135 | | | | | | |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
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*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** *estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).*

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
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| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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# Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 12/01/03 at 10:38 AM

Group Number: 875304

## Sample Matrix Quality Control

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | 110 | | 73-144 | | | | | | |
| Benzene | 105 | | 83-128 | | | | | | |
| 1,2-Dichloroethane | 106 | | 73-136 | | | | | | |
| Trichloroethene | 104 | | 75-135 | | | | | | |
| 1,2-Dichloropropane | 103 | | 81-121 | | | | | | |
| Bromodichloromethane | 99 | | 83-121 | | | | | | |
| Toluene | 102 | | 83-127 | | | | | | |
| 1,1,2-Trichloroethane | 98 | | 77-125 | | | | | | |
| Tetrachloroethene | 106 | | 75-143 | | | | | | |
| Dibromochloromethane | 92 | | 73-119 | | | | | | |
| Chlorobenzene | 102 | | 83-120 | | | | | | |
| Ethylbenzene | 104 | | 82-129 | | | | | | |
| Styrene | 99 | | 72-133 | | | | | | |
| Bromoform | 87 | | 64-119 | | | | | | |
| 1,1,2,2-Tetrachloroethane | 98 | | 69-121 | | | | | | |
| Acetone | 82 | | 16-147 | | | | | | |
| Carbon Disulfide | 108 | | 77-155 | | | | | | |
| 2-Butanone | 95 | | 42-140 | | | | | | |
| trans-1,3-Dichloropropene | 92 | | 75-117 | | | | | | |
| cis-1,3-Dichloropropene | 95 | | 76-117 | | | | | | |
| 4-Methyl-2-pentanone | 100 | | 61-126 | | | | | | |
| 2-Hexanone | 101 | | 48-133 | | | | | | |
| Xylene (Total) | 105 | | 82-130 | | | | | | |

Batch number: Y033271AB Sample number(s): 4166653,4166658

| | | |
|---|---|---|
| Methyl Tertiary Butyl Ether | 99 | 69-134 |
| Chloromethane | 91 | 70-148 |
| Vinyl Chloride | 98 | 64-148 |
| Bromomethane | 66 | 52-140 |
| Chloroethane | 73 | 63-142 |
| 1,1-Dichloroethene | 110 | 78-146 |
| Methylene Chloride | 104 | 79-133 |
| trans-1,2-Dichloroethene | 105 | 82-133 |
| 1,1-Dichloroethane | 107 | 85-135 |
| cis-1,2-Dichloroethene | 101 | 83-126 |
| Chloroform | 105 | 82-131 |
| 1,1,1-Trichloroethane | 108 | 82-135 |
| Carbon Tetrachloride | 110 | 73-144 |
| Benzene | 105 | 83-128 |
| 1,2-Dichloroethane | 106 | 73-136 |
| Trichloroethene | 104 | 75-135 |
| 1,2-Dichloropropane | 103 | 81-121 |
| Bromodichloromethane | 99 | 83-121 |
| Toluene | 102 | 83-127 |
| 1,1,2-Trichloroethane | 98 | 77-125 |
| Tetrachloroethene | 106 | 75-143 |
| Dibromochloromethane | 92 | 73-119 |

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| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

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**J** estimated value -- The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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| **E** | Concentration exceeds the calibration range of the instrument |
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| **P** | Concentration difference between primary and confirmation columns >25% |
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**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
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# Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 12/01/03 at 10:38 AM

Group Number: 875304

## Sample Matrix Quality Control

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 102 | | 83-120 | | | | | | |
| Ethylbenzene | 104 | | 82-129 | | | | | | |
| Styrene | 99 | | 72-133 | | | | | | |
| Bromoform | 87 | | 64-119 | | | | | | |
| 1,1,2,2-Tetrachloroethane | 98 | | 69-121 | | | | | | |
| Acetone | 82 | | 16-147 | | | | | | |
| Carbon Disulfide | 108 | | 77-155 | | | | | | |
| 2-Butanone | 95 | | 42-140 | | | | | | |
| trans-1,3-Dichloropropene | 92 | | 75-117 | | | | | | |
| cis-1,3-Dichloropropene | 95 | | 76-117 | | | | | | |
| 4-Methyl-2-pentanone | 100 | | 61-126 | | | | | | |
| 2-Hexanone | 101 | | 48-133 | | | | | | |
| Xylene (Total) | 105 | | 82-130 | | | | | | |

## Surrogate Quality Control

Analysis Name: TCL by 8260 (water)
Batch number: Y033271AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 4166650 | 95 | 92 | 95 | 93 |
| 4166651 | 96 | 91 | 93 | 93 |
| 4166652 | 92 | 92 | 94 | 92 |
| 4166654 | 96 | 91 | 94 | 93 |
| 4166655 | 95 | 90 | 94 | 93 |
| 4166656 | 96 | 91 | 94 | 93 |
| 4166657 | 96 | 93 | 93 | 92 |
| 4166658 | 91 | 92 | 94 | 93 |
| 4166659 | 96 | 92 | 95 | 93 |
| 4166660 | 96 | 92 | 94 | 93 |
| 4166661 | 96 | 92 | 94 | 93 |
| 4166662 | 96 | 91 | 94 | 92 |
| 4166663 | 96 | 92 | 94 | 93 |
| 4166664 | 96 | 90 | 95 | 93 |
| 4166665 | 97 | 91 | 94 | 93 |
| 4166666 | 96 | 92 | 94 | 93 |
| 4166667 | 96 | 91 | 94 | 93 |
| Blank | 95 | 92 | 94 | 93 |
| LCS | 95 | 93 | 95 | 94 |
| LCSD | 95 | 94 | 94 | 93 |
| MS | 95 | 90 | 94 | 94 |
| Limits: | 81-120 | 82-112 | 85-112 | 83-113 |

*- Outside of specification
(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.

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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Lancaster Laboratories



# Quality Control Summary

Client Name: DaimlerChrysler Corporation Group Number: 875304
Reported: 12/01/03 at 10:38 AM

## Surrogate Quality Control

Analysis Name: TCL by 8260 (water)
Batch number: Y033271AB

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 4166653 | 97 | 92 | 93 | 92 |
| Blank | 97 | 92 | 94 | 93 |
| LCS | 95 | 93 | 95 | 94 |
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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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Analysis Report

Lancaster Laboratories

ANALYTICAL RESULTS

Prepared for:

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

248-576-5741

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

received
11-2-03
12-1-03

SAMPLE GROUP

The sample group for this submittal is 875300. Samples arrived at the laboratory on Tuesday, November 18, 2003. The PO# for this group is N99C403749-B.

| Client Description | Lancaster Labs Number |
|---|---|
| MW32S-111403 Grab Groundwater Sample | 4166614 |
| TW14-111503 Grab Groundwater Sample | 4166615 |
| TW15-111503 Grab Groundwater Sample | 4166616 |
| TW15-111503-02 Grab Groundwater Sample | 4166617 |
| TW12-111503 Grab Groundwater Sample | 4166618 |
| PZ38D-111503 Grab Groundwater Sample | 4166619 |
| TW7-111503 Grab Groundwater Sample | 4166620 |
| MW38S-111503 Grab Groundwater Sample | 4166621 |
| MW38S-111503 Grab Groundwater Sample | 4166622 |
| PZ38I-111503 Grab Groundwater Sample | 4166623 |
| MW35S-111503 Grab Groundwater Sample | 4166624 |
| PZ35D-111503 Grab Groundwater Sample | 4166625 |
| PZ35I-111503 Grab Groundwater Sample | 4166626 |
| PZ30D-111603 Grab Groundwater Sample | 4166627 |
| PZ30I-111603 Grab Groundwater Sample | 4166628 |
| MW30S-111603 Grab Groundwater Sample | 4166629 |
| MW36S-111603 Grab Groundwater Sample | 4166630 |
| PZ36D-111603 Grab Groundwater Sample | 4166631 |
| PZ36I-111603 Grab Groundwater Sample | 4166632 |
| PZ17I-111603 Grab Groundwater Sample | 4166633 |

| | | |
|---|---|---|
| 1 COPY TO | Earth Tech | Attn: Ms. Lisa Smith |
| 1 COPY TO | Earth Tech | Attn: Mr. Rob Stenson |

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2425 New Holland Pike • Lancaster, PA 17601

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Lancaster Laboratories

Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300.

Respectfully Submitted,

Lawrence M. Taylor
Sr. Chemist

MEMBER ACIL
Lancaster Laboratories, Inc.
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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166614**

**MW32S-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 17:05 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-32S- SDG#: DCN85-01

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 2. | J | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 7. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | 0.8 | J | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 6. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 250. | | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | 0.9 | J | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

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2425 New Holland Pike • Lancaster, PA 17601

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| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. *We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our* staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166614**

**MW32S-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 17:05 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-32S- SDG#: DCN85-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 12:51 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 12:51 | Trent S Sprenkle | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166615**

**TW14-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 09:40 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T14-- SDG#: DCN85-02

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | 1. | J | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

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# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
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| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
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| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
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| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166615**

**TW14-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 09:40 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T14-- SDG#: DCN85-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 13:37 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 13:37 | Trent S Sprenkle | n.a. |

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2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
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| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**ppb** parts per billion

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
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| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166616**

**TW15-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 10:23 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T15-- SDG#: DCN85-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166616**

**TW15-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 10:23 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T15-- SDG#: DCN85-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 14:00 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 14:00 | Trent S Sprenkle | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Measurement uncertainty values, as applicable, are available upon request.

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166617**

**TW15-111503-02 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 10:23 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T1502 SDG#: DCN85-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
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| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
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**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
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| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
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| **W** | Post digestion spike out of control limits |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166617**

**TW15-111503-02 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 10:23 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T1502 SDG#: DCN85-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 14:24 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 14:24 | Trent S Sprenkle | n.a. |

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2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
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| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
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**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166618**

**TW12-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 11:54 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T12-- SDG#: DCN85-05

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | 2. | J | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

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# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
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| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
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| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166618**

**TW12-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 11:54 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T12-- SDG#: DCN85-05

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 14:47 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 14:47 | Trent S Sprenkle | n.a. |

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# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
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**Organic Qualifiers**

| | |
|---|---|
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| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
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| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166619**

**PZ38D-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 15:15 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

38D-- SDG#: DCN85-06

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | 0.8 | J | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 1. | J | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 12. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 240. | | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166619**

**PZ38D-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 15:15 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

38D-- SDG#: DCN85-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 15:10 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 15:10 | Trent S Sprenkle | n.a. |

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166620**

**TW7-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 14:04 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T7--- SDG#: DCN85-07

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
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| **E** | Concentration exceeds the calibration range of the instrument |
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| **P** | Concentration difference between primary and confirmation columns >25% |
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**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T7--- SDG#: DCN85-07

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 15:33 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 15:33 | Trent S Sprenkle | n.a. |

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166621**

**MW38S-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 15:00 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
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| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | 6. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 8. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 130. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 7. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 670. | 5. | ug/l | 5 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
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| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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-38S- SDG#: DCN85-08

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 15:56 | Trent S Sprenkle | 1 |
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 11:07 | Trent S Sprenkle | 5 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 15:56 | Trent S Sprenkle | n.a. |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 2 | 11/23/2003 11:07 | Trent S Sprenkle | n.a. |

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| **B** | Value is <CRDL, but ≥IDL |
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| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

*Measurement uncertainty values, as applicable, are available upon request.*

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166622**

**MW38S-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 15:05 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

--38S SDG#: DCN85-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | 6. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 8. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 120. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 7. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 670. | 5. | ug/l | 5 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166622**

**MW38S-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 15:05 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

--38S SDG#: DCN85-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 16:19 | Trent S Sprenkle | 1 |
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 11:30 | Trent S Sprenkle | 5 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 16:19 | Trent S Sprenkle | n.a. |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 2 | 11/23/2003 11:30 | Trent S Sprenkle | n.a. |

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2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166623**

**PZ38I-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 15:45 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

38I-- SDG#: DCN85-10

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | 4. J | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 6. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 86. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 5. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 1,900. | 20. | ug/l | 20 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
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| **meq** | milliequivalents | **lb.** | pound(s) |
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| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
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| | |
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| **B** | Value is <CRDL, but ≥IDL |
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| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166623**

**PZ38I-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 15:45 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

38I-- SDG#: DCN85-10

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 16:42 | Trent S Sprenkle | 1 |
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 11:53 | Trent S Sprenkle | 20 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 16:42 | Trent S Sprenkle | n.a. |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 2 | 11/23/2003 11:53 | Trent S Sprenkle | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166624**

**MW35S-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 16:35 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

35S-- SDG#: DCN85-11

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | 5. | J | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 16. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 62. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 9. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 220. | | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | 3. | J | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
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| **meq** | milliequivalents | **lb.** | pound(s) |
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| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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**ppb** parts per billion

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
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| | |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166624**

**MW35S-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 16:35 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

35S-- SDG#: DCN85-11

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 17:06 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 17:06 | Trent S Sprenkle | n.a. |

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2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
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| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**ppb** parts per billion

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
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| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
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| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166625**

**PZ35D-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 16:40 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

35D-- SDG#: DCN85-12

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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2425 New Holland Pike • Lancaster, PA 17601

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**Lancaster Laboratories Sample No. WW 4166625**

**PZ35D-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 16:40 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

35D-- SDG#: DCN85-12

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 17:29 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 17:29 | Trent S Sprenkle | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166626**

**PZ35I-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 17:05 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

35I-- SDG#: DCN85-13

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | 2. | J | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 9. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 13. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 13. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 79. | | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | 1. | J | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

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|---|---|---|---|
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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
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| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
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| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

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**Organic Qualifiers**

| | |
|---|---|
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| **E** | Concentration exceeds the calibration range of the instrument |
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**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
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| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166626**

**PZ35I-111503 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/15/2003 17:05 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

35I-- SDG#: DCN85-13

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 17:52 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 17:52 | Trent S Sprenkle | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
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| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
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| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

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**Organic Qualifiers**

| | |
|---|---|
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| **B** | Analyte was also detected in the blank |
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| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166627**

**PZ30D-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 08:55 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-30D- SDG#: DCN85-14

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
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| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166627**

**PZ30D-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 08:55 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-30D- SDG#: DCN85-14

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 18:15 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 18:15 | Trent S Sprenkle | n.a. |

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166628**

**PZ30I-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 08:55 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-30I- SDG#: DCN85-15

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166628**

**PZ30I-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 08:55 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-30I- SDG#: DCN85-15

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 18:38 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 18:38 | Trent S Sprenkle | n.a. |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166629**

**MW30S-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 09:35 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-30S- SDG#: DCN85-16

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 1. J | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
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| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166629**

**MW30S-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 09:35 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-30S- SDG#: DCN85-16

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 19:01 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 19:01 | Trent S Sprenkle | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166630**

**MW36S-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 10:50 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-36S- SDG#: DCN85-17

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | 3. | J | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 1. | J | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 120. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 2. | J | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 720. | | 5. | ug/l | 5 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166630**

**MW36S-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 10:50 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-36S- SDG#: DCN85-17

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 19:25 | Trent S Sprenkle | 1 |
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 12:17 | Trent S Sprenkle | 5 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 19:25 | Trent S Sprenkle | n.a. |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 2 | 11/23/2003 12:17 | Trent S Sprenkle | n.a. |

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2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**>** greater than

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**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
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| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166631**

**PZ36D-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 10:40 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-36D- SDG#: DCN85-18

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 11. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Measurement uncertainty values, as applicable, are available upon request.

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166631**

**PZ36D-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 10:40 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-36D- SDG#: DCN85-18

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 19:48 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 19:48 | Trent S Sprenkle | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166632**

**PZ36I-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 11:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-36I- SDG#: DCN85-19

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

Lancaster Laboratories
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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
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| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
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| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166632**

**PZ36I-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 11:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-36I- SDG#: DCN85-19

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 20:11 | Trent S Sprenkle | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 20:11 | Trent S Sprenkle | n.a. |

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | *TIC is a possible aldol-condensation product* |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | *Value is <CRDL, but ≥IDL* |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
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| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166633**

**PZ17I-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 13:10 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-17I- SDG#: DCN85-20*

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | 2. | J | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | 5. | J | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 50. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 16. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 64. | | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | 950. | | 4. | ug/l | 5 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**Lancaster Laboratories Sample No. WW 4166633**

**PZ17I-111603 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/16/2003 13:10 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-17I- SDG#: DCN85-20*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/22/2003 20:34 | Trent S Sprenkle | 1 |
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 12:40 | Trent S Sprenkle | 5 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/22/2003 20:34 | Trent S Sprenkle | n.a. |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 2 | 11/23/2003 12:40 | Trent S Sprenkle | n.a. |

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# Quality Control Summary

Client Name: DaimlerChrysler Corporation  Group Number: 875300
Reported: 12/01/03 at 10:34 AM

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Batch number: Y033261AA | Sample number(s): 4166614-4166633 | | | | | | | |
| Methyl Tertiary Butyl Ether | N.D. | 0.5 | ug/l | 99 | 97 | 77-127 | 2 | 30 |
| Chloromethane | N.D. | 1. | ug/l | 95 | 93 | 69-136 | 2 | 30 |
| Vinyl Chloride | N.D. | 1. | ug/l | 100 | 100 | 71-129 | 0 | 30 |
| Bromomethane | N.D. | 1. | ug/l | 70 | 66 | 46-138 | 6 | 30 |
| Chloroethane | N.D. | 1. | ug/l | 91 | 91 | 59-133 | 0 | 30 |
| 1,1-Dichloroethene | N.D. | 0.8 | ug/l | 100 | 101 | 79-130 | 1 | 30 |
| Methylene Chloride | N.D. | 2. | ug/l | 100 | 100 | 80-128 | 0 | 30 |
| trans-1,2-Dichloroethene | N.D. | 0.8 | ug/l | 97 | 98 | 81-124 | 1 | 30 |
| 1,1-Dichloroethane | N.D. | 1. | ug/l | 99 | 99 | 83-127 | 1 | 30 |
| cis-1,2-Dichloroethene | N.D. | 0.8 | ug/l | 97 | 98 | 84-117 | 1 | 30 |
| Chloroform | N.D. | 0.8 | ug/l | 99 | 99 | 86-124 | 0 | 30 |
| 1,1,1-Trichloroethane | N.D. | 0.8 | ug/l | 100 | 99 | 83-127 | 1 | 30 |
| Carbon Tetrachloride | N.D. | 1. | ug/l | 101 | 100 | 77-130 | 1 | 30 |
| Benzene | N.D. | 0.5 | ug/l | 100 | 100 | 85-117 | 0 | 30 |
| 1,2-Dichloroethane | N.D. | 1. | ug/l | 104 | 102 | 77-132 | 2 | 30 |
| Trichloroethene | N.D. | 1. | ug/l | 98 | 99 | 87-117 | 1 | 30 |
| 1,2-Dichloropropane | N.D. | 1. | ug/l | 99 | 98 | 80-117 | 1 | 30 |
| Bromodichloromethane | N.D. | 1. | ug/l | 98 | 98 | 83-121 | 0 | 30 |
| Toluene | N.D. | 0.7 | ug/l | 98 | 98 | 85-115 | 0 | 30 |
| 1,1,2-Trichloroethane | N.D. | 0.8 | ug/l | 98 | 97 | 86-113 | 1 | 30 |
| Tetrachloroethene | N.D. | 0.8 | ug/l | 102 | 104 | 82-126 | 2 | 30 |
| Dibromochloromethane | N.D. | 1. | ug/l | 94 | 96 | 78-119 | 1 | 30 |
| Chlorobenzene | N.D. | 0.8 | ug/l | 99 | 100 | 85-115 | 0 | 30 |
| Ethylbenzene | N.D. | 0.8 | ug/l | 100 | 101 | 82-119 | 1 | 30 |
| Styrene | N.D. | 1. | ug/l | 99 | 99 | 84-117 | 0 | 30 |
| Bromoform | N.D. | 1. | ug/l | 93 | 93 | 63-122 | 0 | 30 |
| 1,1,2,2-Tetrachloroethane | N.D. | 1. | ug/l | 97 | 95 | 72-119 | 2 | 30 |
| Acetone | N.D. | 6. | ug/l | 121 | 116 | 22-179 | 4 | 30 |
| Carbon Disulfide | N.D. | 1. | ug/l | 98 | 97 | 80-139 | 1 | 30 |
| 2-Butanone | N.D. | 3. | ug/l | 115 | 107 | 45-154 | 7 | 30 |
| trans-1,3-Dichloropropene | N.D. | 1. | ug/l | 94 | 94 | 79-114 | 0 | 30 |
| cis-1,3-Dichloropropene | N.D. | 1. | ug/l | 95 | 95 | 78-114 | 0 | 30 |
| 4-Methyl-2-pentanone | N.D. | 3. | ug/l | 99 | 98 | 65-125 | 1 | 30 |
| 2-Hexanone | N.D. | 3. | ug/l | 107 | 103 | 49-141 | 4 | 30 |
| Xylene (Total) | N.D. | 0.8 | ug/l | 101 | 102 | 84-120 | 1 | 30 |
| Batch number: Y033261AB | Sample number(s): 4166621-4166623,4166630,4166633 | | | | | | | |
| Trichloroethene | N.D. | 1. | ug/l | 98 | 99 | 87-117 | 1 | 30 |
| Tetrachloroethene | N.D. | 0.8 | ug/l | 102 | 104 | 82-126 | 2 | 30 |

## Sample Matrix Quality Control

| MS | MSD | MS/MSD | RPD | BKG | DUP | DUP | Dup RPD |
|---|---|---|---|---|---|---|---|

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
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# Quality Control Summary

Client Name: DaimlerChrysler Corporation  Group Number: 875300
Reported: 12/01/03 at 10:34 AM

| Analysis Name | %REC | %REC Limits | RPD | MAX | Conc | Conc | RPD | Max |
|---|---|---|---|---|---|---|---|---|
| Batch number: Y033261AA | Sample number(s): 4166614-4166633 | | | | | | | |
| Methyl Tertiary Butyl Ether | 98 | 69-134 | | | | | | |
| Chloromethane | 89 | 70-148 | | | | | | |
| Vinyl Chloride | 99 | 64-148 | | | | | | |
| Bromomethane | 72 | 52-140 | | | | | | |
| Chloroethane | 91 | 63-142 | | | | | | |
| 1,1-Dichloroethene | 107 | 78-146 | | | | | | |
| Methylene Chloride | 100 | 79-133 | | | | | | |
| trans-1,2-Dichloroethene | 105 | 82-133 | | | | | | |
| 1,1-Dichloroethane | 104 | 85-135 | | | | | | |
| cis-1,2-Dichloroethene | 99 | 83-126 | | | | | | |
| Chloroform | 102 | 82-131 | | | | | | |
| 1,1,1-Trichloroethane | 105 | 82-135 | | | | | | |
| Carbon Tetrachloride | 108 | 73-144 | | | | | | |
| Benzene | 103 | 83-128 | | | | | | |
| 1,2-Dichloroethane | 104 | 73-136 | | | | | | |
| Trichloroethene | (2) | 75-135 | | | | | | |
| 1,2-Dichloropropane | 100 | 81-121 | | | | | | |
| Bromodichloromethane | 98 | 83-121 | | | | | | |
| Toluene | 101 | 83-127 | | | | | | |
| 1,1,2-Trichloroethane | 97 | 77-125 | | | | | | |
| Tetrachloroethene | 103 | 75-143 | | | | | | |
| Dibromochloromethane | 93 | 73-119 | | | | | | |
| Chlorobenzene | 101 | 83-120 | | | | | | |
| Ethylbenzene | 104 | 82-129 | | | | | | |
| Styrene | 100 | 72-133 | | | | | | |
| Bromoform | 89 | 64-119 | | | | | | |
| 1,1,2,2-Tetrachloroethane | 98 | 69-121 | | | | | | |
| Acetone | 78 | 16-147 | | | | | | |
| Carbon Disulfide | 102 | 77-155 | | | | | | |
| 2-Butanone | 94 | 42-140 | | | | | | |
| trans-1,3-Dichloropropene | 91 | 75-117 | | | | | | |
| cis-1,3-Dichloropropene | 94 | 76-117 | | | | | | |
| 4-Methyl-2-pentanone | 97 | 61-126 | | | | | | |
| 2-Hexanone | 101 | 48-133 | | | | | | |
| Xylene (Total) | 104 | 82-130 | | | | | | |
| Batch number: Y033261AB | Sample number(s): 4166621-4166623,4166630,4166633 | | | | | | | |
| Trichloroethene | (2) | 75-135 | | | | | | |
| Tetrachloroethene | 103 | 75-143 | | | | | | |

## Surrogate Quality Control

Analysis Name: TCL by 8260 (water)
Batch number: Y033261AA

| Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|

*- Outside of specification
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| **g** | gram(s) | **kg** | kilogram(s) |
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Lancaster Laboratories



# Quality Control Summary

Client Name: DaimlerChrysler Corporation Group Number: 875300
Reported: 12/01/03 at 10:34 AM

## Surrogate Quality Control

| | | | | |
|---|---|---|---|---|
| 4166614 | 94 | 92 | 95 | 93 |
| 4166615 | 94 | 92 | 95 | 93 |
| 4166616 | 94 | 93 | 95 | 94 |
| 4166617 | 95 | 91 | 95 | 94 |
| 4166618 | 95 | 92 | 95 | 93 |
| 4166619 | 96 | 91 | 95 | 93 |
| 4166620 | 94 | 91 | 95 | 93 |
| 4166621 | 95 | 91 | 95 | 93 |
| 4166622 | 96 | 91 | 95 | 94 |
| 4166623 | 95 | 92 | 96 | 93 |
| 4166624 | 95 | 91 | 96 | 94 |
| 4166625 | 95 | 91 | 95 | 93 |
| 4166626 | 95 | 91 | 95 | 93 |
| 4166627 | 96 | 92 | 95 | 93 |
| 4166628 | 94 | 92 | 95 | 93 |
| 4166629 | 96 | 92 | 94 | 93 |
| 4166630 | 95 | 92 | 95 | 93 |
| 4166631 | 95 | 92 | 95 | 93 |
| 4166632 | 95 | 92 | 95 | 93 |
| 4166633 | 95 | 91 | 95 | 93 |
| Blank | 95 | 92 | 94 | 94 |
| LCS | 95 | 92 | 96 | 95 |
| LCSD | 95 | 94 | 96 | 94 |
| MS | 94 | 92 | 96 | 94 |
| Limits: | 81-120 | 82-112 | 85-112 | 83-113 |

Analysis Name: 8260 Master Scan (water)
Batch number: Y033261AB

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| Blank | 95 | 91 | 94 | 93 |
| LCS | 95 | 92 | 96 | 95 |
| LCSD | 95 | 94 | 96 | 94 |
| MS | 94 | 92 | 96 | 94 |
| Limits: | 81-120 | 82-112 | 85-112 | 83-113 |

*- Outside of specification
(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.

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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Analysis Report

Lancaster Laboratories

EPA Region 5 Records Ctr.
349928

ANALYTICAL RESULTS

Prepared for:

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

248-576-5741

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

received
11-28
12-1-03

SAMPLE GROUP

The sample group for this submittal is 875292. Samples arrived at the laboratory on Tuesday, November 18, 2003. The PO# for this group is N99C403749-B.

| Client Description | Lancaster Labs Number |
|---|---|
| MW31S-111403 Grab Groundwater Sample | 4166559 |
| MW31S-111403-02 Grab Groundwater Sample | 4166560 |
| PZ31D-111403 Grab Groundwater Sample | 4166561 |
| PZ31I-111403 Grab Groundwater Sample | 4166562 |
| MW26S-111403 Grab Groundwater Sample | 4166563 |
| PZ26D-111403 Grab Groundwater Sample | 4166564 |
| PZ26I-111403 Grab Groundwater Sample | 4166565 |
| MW40S-111403 Grab Groundwater Sample | 4166566 |
| PZ40D-111403 Grab Groundwater Sample | 4166567 |
| PZ40I-111403 Grab Groundwater Sample | 4166568 |
| MW28S-111403 Grab Groundwater Sample | 4166569 |
| PZ28D-111403 Grab Groundwater Sample | 4166570 |
| PZ28I-111403 Grab Groundwater Sample | 4166571 |
| TW16-111403 Grab Groundwater Sample | 4166572 |
| TW9-111403 Unspiked Grab Groundwater Sample | 4166573 |
| TW10-111403 Grab Groundwater Sample | 4166574 |
| TW24-111403 Grab Groundwater Sample | 4166575 |
| TW11-111403 Grab Groundwater Sample | 4166576 |
| PZ32D-111403 Grab Groundwater Sample | 4166577 |
| PZ32I-111403 Grab Groundwater Sample | 4166578 |

| | | |
|---|---|---|
| 1 COPY TO | Earth Tech | Attn: Ms. Lisa Smith |
| 1 COPY TO | Earth Tech | Attn: Mr. Rob Stenson |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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Lancaster Laboratories

Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300.

Respectfully Submitted,

Lawrence M. Taylor
Sr. Chemist

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166559**

**MW31S-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 11:50 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:32
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

31S-- SDG#: DCN84-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166559**

**MW31S-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 11:50 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:32
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

31S-- SDG#: DCN84-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 18:46 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 18:46 | Marla S Lord | n.a. |

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166560**

**MW31S-111403-02 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 11:55 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

31S02 SDG#: DCN84-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
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| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
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| **ml** | milliliter(s) | **l** | liter(s) |
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| | |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166560**

**MW31S-111403-02 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 11:55 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

31S02 SDG#: DCN84-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 19:10 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 19:10 | Marla S Lord | n.a. |

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# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
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| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**ppb** parts per billion

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
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| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
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| ***** | Duplicate analysis not within control limits |
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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166561**

**PZ31D-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 11:55 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

31D-- SDG#: DCN84-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** *estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).*

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
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| **B** | Analyte was also detected in the blank |
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| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166561**

**PZ31D-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 11:55 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

31D-- SDG#: DCN84-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 19:34 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 19:34 | Marla S Lord | n.a. |

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Lancaster Laboratories, Inc.
2425 New Holland Pike
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717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166562**

**PZ31I-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 12:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

31I-- SDG#: DCN84-04

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | 1. | J | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 7. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 6. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 50. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 140. | | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| | |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166562**

**PZ31I-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 12:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

31I-- SDG#: DCN84-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 19:57 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 19:57 | Marla S Lord | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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**Inorganic Qualifiers**

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|---|---|
| **B** | Value is <CRDL, but ≥IDL |
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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166563**

**MW26S-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 09:00 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

26S-- SDG#: DCN84-05

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 2. | J | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 2. | J | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 3. | J | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

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**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
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**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
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| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
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| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166563**

**MW26S-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 09:00 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

26S-- SDG#: DCN84-05

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 20:21 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 20:21 | Marla S Lord | n.a. |

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2425 New Holland Pike
PO Box 12425
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717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
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| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
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| **P** | Concentration difference between primary and confirmation columns >25% |
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**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
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| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166564**

**PZ26D-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 08:35 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-26D- SDG#: DCN84-06

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | 1. | J | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | 3. | J | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 2. | J | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 70. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | 4. | J | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166564**

**PZ26D-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 08:35 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

-26D- SDG#: DCN84-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 20:44 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 20:44 | Marla S Lord | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166565**

**PZ26I-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 08:35 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

26I-- SDG#: DCN84-07

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | 17. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | 31. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | 34. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 17. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 930. | | 16. | ug/l | 20 |
| 05396 | Chloroform | 67-66-3 | 4. | J | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 230. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | 2. | J | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | 6. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 2,900. | | 20. | ug/l | 20 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | 3. | J | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
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| **B** | Analyte was also detected in the blank |
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**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166565**

**PZ26I-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 08:35 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

26I-- SDG#: DCN84-07

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 21:08 | Marla S Lord | 1 |
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/24/2003 04:11 | Marla S Lord | 20 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 21:08 | Marla S Lord | n.a. |

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2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
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| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
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| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166566**

**MW40S-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 09:40 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

40S-- SDG#: DCN84-08

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 2. | J | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

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# Explanation of Symbols and Abbreviations

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Lancaster Laboratories



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**Site Code: SC001 RFA# ET03076**
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Collected:11/14/2003 09:40 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

40S-- SDG#: DCN84-08

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

The result for trichloroethene is suspected carryover contamination from a previous analysis. Since only one vial was submitted for this analysis, a repeat analysis was performed from the original vial with headspace. Trichloroethene was not detected in the second analysis.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 21:31 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 21:31 | Marla S Lord | n.a. |

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166567**

**PZ40D-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 10:20 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

40D-- SDG#: DCN84-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
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**Inorganic Qualifiers**

| | |
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| **B** | Value is <CRDL, but ≥IDL |
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| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
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Lancaster Laboratories



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Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

40D-- SDG#: DCN84-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 21:55 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 21:55 | Marla S Lord | n.a. |

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2425 New Holland Pike • Lancaster, PA 17601

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| | |
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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166568**

**PZ40I-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 09:45 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

40I-- SDG#: DCN84-10

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
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| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
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| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
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| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
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| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
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| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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40I-- SDG#: DCN84-10

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 22:19 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 22:19 | Marla S Lord | n.a. |

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

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2425 New Holland Pike • Lancaster, PA 17601

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**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166569**

**MW28S-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 14:50 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

28S-- SDG#: DCN84-11

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 5. | ug/l | 10 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 10. | ug/l | 10 |
| 05386 | Vinyl Chloride | 75-01-4 | 19. | J | 10. | ug/l | 10 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 10. | ug/l | 10 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 10. | ug/l | 10 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | 27. | J | 8. | ug/l | 10 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 20. | ug/l | 10 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | 24. | J | 8. | ug/l | 10 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 15. | J | 10. | ug/l | 10 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 1,100. | | 8. | ug/l | 10 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 8. | ug/l | 10 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 75. | | 8. | ug/l | 10 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 10. | ug/l | 10 |
| 05401 | Benzene | 71-43-2 | N.D. | | 5. | ug/l | 10 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 10. | ug/l | 10 |
| 05403 | Trichloroethene | 79-01-6 | 9,600. | | 100. | ug/l | 100 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 10. | ug/l | 10 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 10. | ug/l | 10 |
| 05407 | Toluene | 108-88-3 | N.D. | | 7. | ug/l | 10 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 8. | ug/l | 10 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | | 8. | ug/l | 10 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 10. | ug/l | 10 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 8. | ug/l | 10 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 8. | ug/l | 10 |
| 05418 | Styrene | 100-42-5 | N.D. | | 10. | ug/l | 10 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 10. | ug/l | 10 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 10. | ug/l | 10 |
| 06302 | Acetone | 67-64-1 | N.D. | | 60. | ug/l | 10 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 10. | ug/l | 10 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 30. | ug/l | 10 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 10. | ug/l | 10 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 10. | ug/l | 10 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 30. | ug/l | 10 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 30. | ug/l | 10 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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**ppb** parts per billion

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
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| **B** | Analyte was also detected in the blank |
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| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
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**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
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| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166569**

**MW28S-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 14:50 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

28S-- SDG#: DCN84-11

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 8. | ug/l | 10 |

The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 22:43 | Marla S Lord | 10 |
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 23:06 | Marla S Lord | 100 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 22:43 | Marla S Lord | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**Organic Qualifiers**

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|---|---|
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| **E** | Concentration exceeds the calibration range of the instrument |
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**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
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| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166570**

**PZ28D-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 14:30 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

28D-- SDG#: DCN84-12

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 6. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 42. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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2425 New Holland Pike • Lancaster, PA 17601

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166570**

**PZ28D-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 14:30 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

28D-- SDG#: DCN84-12

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 23:30 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 23:30 | Marla S Lord | n.a. |

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2425 New Holland Pike
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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

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**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166571**

**PZ28I-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 14:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

28I-- SDG#: DCN84-13

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | 4. | J | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | 9. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | 13. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 17. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 250. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | 1. | J | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 38. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | 0.5 | J | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | 6. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 820. | | 10. | ug/l | 10 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
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| **ug** | microgram(s) | **mg** | milligram(s) |
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| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**Inorganic Qualifiers**

| | |
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| **M** | Duplicate injection precision not met |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166571**

**PZ28I-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 14:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

28I-- SDG#: DCN84-13

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/23/2003 23:53 | Marla S Lord | 1 |
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/24/2003 00:17 | Marla S Lord | 10 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/23/2003 23:53 | Marla S Lord | n.a. |

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| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s). |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**ppb** parts per billion

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**Organic Qualifiers**

| | |
|---|---|
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| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166572**

**TW16-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 10:20 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T16-- SDG#: DCN84-14

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | 2. | J | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 4. | J | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | 2. | J | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 8. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 160. | | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | 1. | J | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| **B** | Value is <CRDL, but ≥IDL |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166572**

**TW16-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 10:20 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T16-- SDG#: DCN84-14

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/24/2003 00:40 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/24/2003 00:40 | Marla S Lord | n.a. |

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166573**

**TW9-111403 Unspiked Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 09:20 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T9--- SDG#: DCN84-15BKG

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
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| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
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| **ml** | milliliter(s) | **l** | liter(s) |
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**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

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**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
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| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166573**

**TW9-111403 Unspiked Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 09:20 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:33
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T9--- SDG#: DCN84-15BKG

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/24/2003 01:04 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/24/2003 01:04 | Marla S Lord | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
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| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

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**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166574**

**TW10-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 08:15 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:34
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T10-- SDG#: DCN84-16

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
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**ppb** parts per billion

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166574**

**TW10-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 08:15 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:34
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T10-- SDG#: DCN84-16

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/24/2003 02:14 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/24/2003 02:14 | Marla S Lord | n.a. |

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2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166575**

**TW24-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 12:10 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:34
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T24-- SDG#: DCN84-17

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | 3. | J | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | 10. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | 2. | J | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 16. | | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | 1. | J | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166575**

**TW24-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 12:10 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:34
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T24-- SDG#: DCN84-17

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/24/2003 02:37 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/24/2003 02:37 | Marla S Lord | n.a. |

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**Organic Qualifiers**

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|---|---|
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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166576**

**TW11-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 14:27 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:34
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T11-- SDG#: DCN84-18

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | N.D. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
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| **B** | Analyte was also detected in the blank |
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| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166576**

**TW11-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 14:27 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:34
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

T11-- SDG#: DCN84-18

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/24/2003 03:01 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/24/2003 03:01 | Marla S Lord | n.a. |

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
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| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**>** greater than

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**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
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| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166577**

**PZ32D-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 16:35 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:34
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

32D-- SDG#: DCN84-19

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | 0.9 | J | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 77. | | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | | 3. | ug/l | 1 |

Lancaster Laboratories
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# Explanation of Symbols and Abbreviations

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166577**

**PZ32D-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 16:35 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:34
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

32D-- SDG#: DCN84-19

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/24/2003 03:24 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/24/2003 03:24 | Marla S Lord | n.a. |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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| **B** | Value is <CRDL, but ≥IDL |
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Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166578**

**PZ32I-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 16:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:34
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

32I-- SDG#: DCN84-20*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05385 | Chloromethane | 74-87-3 | N.D. | 1. | ug/l | 1 |
| 05386 | Vinyl Chloride | 75-01-4 | N.D. | 1. | ug/l | 1 |
| 05387 | Bromomethane | 74-83-9 | N.D. | 1. | ug/l | 1 |
| 05388 | Chloroethane | 75-00-3 | N.D. | 1. | ug/l | 1 |
| 05390 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.8 | ug/l | 1 |
| 05391 | Methylene Chloride | 75-09-2 | N.D. | 2. | ug/l | 1 |
| 05392 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.8 | ug/l | 1 |
| 05393 | 1,1-Dichloroethane | 75-34-3 | N.D. | 1. | ug/l | 1 |
| 05395 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.8 | ug/l | 1 |
| 05396 | Chloroform | 67-66-3 | N.D. | 0.8 | ug/l | 1 |
| 05398 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.8 | ug/l | 1 |
| 05399 | Carbon Tetrachloride | 56-23-5 | N.D. | 1. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 1. | ug/l | 1 |
| 05403 | Trichloroethene | 79-01-6 | 20. | 1. | ug/l | 1 |
| 05404 | 1,2-Dichloropropane | 78-87-5 | N.D. | 1. | ug/l | 1 |
| 05406 | Bromodichloromethane | 75-27-4 | N.D. | 1. | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.7 | ug/l | 1 |
| 05408 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.8 | ug/l | 1 |
| 05409 | Tetrachloroethene | 127-18-4 | N.D. | 0.8 | ug/l | 1 |
| 05411 | Dibromochloromethane | 124-48-1 | N.D. | 1. | ug/l | 1 |
| 05413 | Chlorobenzene | 108-90-7 | N.D. | 0.8 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.8 | ug/l | 1 |
| 05418 | Styrene | 100-42-5 | N.D. | 1. | ug/l | 1 |
| 05419 | Bromoform | 75-25-2 | N.D. | 1. | ug/l | 1 |
| 05421 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 1. | ug/l | 1 |
| 06302 | Acetone | 67-64-1 | N.D. | 6. | ug/l | 1 |
| 06303 | Carbon Disulfide | 75-15-0 | N.D. | 1. | ug/l | 1 |
| 06305 | 2-Butanone | 78-93-3 | N.D. | 3. | ug/l | 1 |
| 06306 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 1. | ug/l | 1 |
| 06307 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 1. | ug/l | 1 |
| 06308 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 3. | ug/l | 1 |
| 06309 | 2-Hexanone | 591-78-6 | N.D. | 3. | ug/l | 1 |

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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
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| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
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| | |
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**Lancaster Laboratories Sample No. WW 4166578**

**PZ32I-111403 Grab Groundwater Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/14/2003 16:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:34
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

32I-- SDG#: DCN84-20*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.8 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 06291 | TCL by 8260 (water) | SW-846 8260B | 1 | 11/24/2003 03:48 | Marla S Lord | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 11/24/2003 03:48 | Marla S Lord | n.a. |

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# Quality Control Summary

Client Name: DaimlerChrysler Corporation  Group Number: 875292
Reported: 12/01/03 at 10:34 AM

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Batch number: W033271AA | Sample number(s): 4166559-4166578 | | | | | | | |
| Methyl Tertiary Butyl Ether | N.D. | 0.5 | ug/l | 90 | | 77-127 | | |
| Chloromethane | N.D. | 1. | ug/l | 88 | | 69-136 | | |
| Vinyl Chloride | N.D. | 1. | ug/l | 90 | | 71-129 | | |
| Bromomethane | N.D. | 1. | ug/l | 81 | | 46-138 | | |
| Chloroethane | N.D. | 1. | ug/l | 87 | | 59-133 | | |
| 1,1-Dichloroethene | N.D. | 0.8 | ug/l | 91 | | 79-130 | | |
| Methylene Chloride | N.D. | 2. | ug/l | 92 | | 80-128 | | |
| trans-1,2-Dichloroethene | N.D. | 0.8 | ug/l | 91 | | 81-124 | | |
| 1,1-Dichloroethane | N.D. | 1. | ug/l | 98 | | 83-127 | | |
| cis-1,2-Dichloroethene | N.D. | 0.8 | ug/l | 92 | | 84-117 | | |
| Chloroform | N.D. | 0.8 | ug/l | 91 | | 86-124 | | |
| 1,1,1-Trichloroethane | N.D. | 0.8 | ug/l | 88 | | 83-127 | | |
| Carbon Tetrachloride | N.D. | 1. | ug/l | 87 | | 77-130 | | |
| Benzene | N.D. | 0.5 | ug/l | 93 | | 85-117 | | |
| 1,2-Dichloroethane | N.D. | 1. | ug/l | 96 | | 77-132 | | |
| Trichloroethene | N.D. | 1. | ug/l | 91 | | 87-117 | | |
| 1,2-Dichloropropane | N.D. | 1. | ug/l | 100 | | 80-117 | | |
| Bromodichloromethane | N.D. | 1. | ug/l | 88 | | 83-121 | | |
| Toluene | N.D. | 0.7 | ug/l | 90 | | 85-115 | | |
| 1,1,2-Trichloroethane | N.D. | 0.8 | ug/l | 93 | | 86-113 | | |
| Tetrachloroethene | N.D. | 0.8 | ug/l | 96 | | 82-126 | | |
| Dibromochloromethane | N.D. | 1. | ug/l | 90 | | 78-119 | | |
| Chlorobenzene | N.D. | 0.8 | ug/l | 94 | | 85-115 | | |
| Ethylbenzene | N.D. | 0.8 | ug/l | 90 | | 82-119 | | |
| Styrene | N.D. | 1. | ug/l | 86 | | 84-117 | | |
| Bromoform | N.D. | 1. | ug/l | 96 | | 63-122 | | |
| 1,1,2,2-Tetrachloroethane | N.D. | 1. | ug/l | 93 | | 72-119 | | |
| Acetone | N.D. | 6. | ug/l | 113 | | 22-179 | | |
| Carbon Disulfide | N.D. | 1. | ug/l | 93 | | 80-139 | | |
| 2-Butanone | N.D. | 3. | ug/l | 104 | | 45-154 | | |
| trans-1,3-Dichloropropene | N.D. | 1. | ug/l | 90 | | 79-114 | | |
| cis-1,3-Dichloropropene | N.D. | 1. | ug/l | 91 | | 78-114 | | |
| 4-Methyl-2-pentanone | N.D. | 3. | ug/l | 92 | | 65-125 | | |
| 2-Hexanone | N.D. | 3. | ug/l | 96 | | 49-141 | | |
| Xylene (Total) | N.D. | 0.8 | ug/l | 91 | | 84-120 | | |

## Sample Matrix Quality Control

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: W033271AA | Sample number(s): 4166559-4166578 | | | | | | | | |
| Methyl Tertiary Butyl Ether | 91 | 91 | 69-134 | 1 | 30 | | | | |

*- Outside of specification
(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.

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Lancaster, PA 17605-2425
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# Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 12/01/03 at 10:34 AM

Group Number: 875292

## Sample Matrix Quality Control

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 105 | 101 | 70-148 | 3 | 30 | | | | |
| Vinyl Chloride | 109 | 107 | 64-148 | 2 | 30 | | | | |
| Bromomethane | 89 | 87 | 52-140 | 3 | 30 | | | | |
| Chloroethane | 102 | 98 | 63-142 | 4 | 30 | | | | |
| 1,1-Dichloroethene | 107 | 104 | 78-146 | 3 | 30 | | | | |
| Methylene Chloride | 98 | 97 | 79-133 | 0 | 30 | | | | |
| trans-1,2-Dichloroethene | 101 | 100 | 82-133 | 1 | 30 | | | | |
| 1,1-Dichloroethane | 106 | 106 | 85-135 | 0 | 30 | | | | |
| cis-1,2-Dichloroethene | 100 | 100 | 83-126 | 0 | 30 | | | | |
| Chloroform | 98 | 97 | 82-131 | 1 | 30 | | | | |
| 1,1,1-Trichloroethane | 100 | 99 | 82-135 | 1 | 30 | | | | |
| Carbon Tetrachloride | 103 | 102 | 73-144 | 1 | 30 | | | | |
| Benzene | 101 | 99 | 83-128 | 2 | 30 | | | | |
| 1,2-Dichloroethane | 101 | 100 | 73-136 | 2 | 30 | | | | |
| Trichloroethene | 100 | 100 | 75-135 | 1 | 30 | | | | |
| 1,2-Dichloropropane | 107 | 104 | 81-121 | 2 | 30 | | | | |
| Bromodichloromethane | 95 | 93 | 83-121 | 2 | 30 | | | | |
| Toluene | 97 | 97 | 83-127 | 0 | 30 | | | | |
| 1,1,2-Trichloroethane | 94 | 94 | 77-125 | 0 | 30 | | | | |
| Tetrachloroethene | 100 | 101 | 75-143 | 1 | 30 | | | | |
| Dibromochloromethane | 92 | 92 | 73-119 | 0 | 30 | | | | |
| Chlorobenzene | 99 | 100 | 83-120 | 0 | 30 | | | | |
| Ethylbenzene | 97 | 97 | 82-129 | 0 | 30 | | | | |
| Styrene | 91 | 90 | 72-133 | 1 | 30 | | | | |
| Bromoform | 96 | 97 | 64-119 | 1 | 30 | | | | |
| 1,1,2,2-Tetrachloroethane | 97 | 95 | 69-121 | 2 | 30 | | | | |
| Acetone | 112 | 111 | 16-147 | 1 | 30 | | | | |
| Carbon Disulfide | 106 | 105 | 77-155 | 2 | 30 | | | | |
| 2-Butanone | 103 | 102 | 42-140 | 1 | 30 | | | | |
| trans-1,3-Dichloropropene | 93 | 91 | 75-117 | 2 | 30 | | | | |
| cis-1,3-Dichloropropene | 95 | 92 | 76-117 | 2 | 30 | | | | |
| 4-Methyl-2-pentanone | 96 | 95 | 61-126 | 1 | 30 | | | | |
| 2-Hexanone | 99 | 98 | 48-133 | 0 | 30 | | | | |
| Xylene (Total) | 97 | 97 | 82-130 | 0 | 30 | | | | |

## Surrogate Quality Control

Analysis Name: TCL by 8260 (water)
Batch number: W033271AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 4166559 | 89 | 85 | 90 | 92 |
| 4166560 | 88 | 85 | 89 | 92 |
| 4166561 | 88 | 84 | 89 | 93 |

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| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
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| **W** | Post digestion spike out of control limits |
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Lancaster Laboratories



# Quality Control Summary

Client Name: DaimlerChrysler Corporation Group Number: 875292
Reported: 12/01/03 at 10:34 AM

## Surrogate Quality Control

| | | | | |
|---|---|---|---|---|
| 4166562 | 88 | 86 | 90 | 92 |
| 4166563 | 89 | 85 | 89 | 92 |
| 4166564 | 88 | 85 | 89 | 92 |
| 4166565 | 89 | 86 | 90 | 92 |
| 4166566 | 89 | 86 | 90 | 92 |
| 4166567 | 89 | 84 | 89 | 92 |
| 4166568 | 89 | 85 | 89 | 91 |
| 4166569 | 89 | 86 | 89 | 92 |
| 4166570 | 90 | 86 | 89 | 92 |
| 4166571 | 90 | 88 | 90 | 92 |
| 4166572 | 89 | 87 | 89 | 92 |
| 4166573 | 90 | 85 | 89 | 92 |
| 4166574 | 90 | 85 | 89 | 92 |
| 4166575 | 90 | 85 | 89 | 92 |
| 4166576 | 89 | 85 | 89 | 92 |
| 4166577 | 90 | 86 | 89 | 92 |
| 4166578 | 90 | 86 | 90 | 91 |
| Blank | 88 | 86 | 89 | 91 |
| LCS | 88 | 87 | 90 | 94 |
| MS | 91 | 85 | 90 | 94 |
| MSD | 89 | 86 | 89 | 93 |
| Limits: | 81-120 | 82-112 | 85-112 | 83-113 |

*- Outside of specification
(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.

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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| | | | |
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Analysis Report

Lancaster Laboratories

EPA Region 5 Records Ctr.
349929

ANALYTICAL RESULTS

Prepared for:

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

248-576-5741

received
12-2-03
12-1-03

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 875289. Samples arrived at the laboratory on Tuesday, November 18, 2003. The PO# for this group is N99C403749-B.

| Client Description | Lancaster Labs Number |
|---|---|
| MW34S-111703 Grab Water Sample | 4166540 |
| MW34S-111703 Filtered Grab Water Sample | 4166541 |
| PZ34I-111703 Grab Water Sample | 4166542 |
| PZ34I-111703 Filtered Grab Water Sample | 4166543 |
| PZ34D-111703 Grab Water Sample | 4166544 |
| PZ34D-111703 Filtered Grab Water Sample | 4166545 |
| MWC001-111703 Grab Water Sample | 4166546 |
| MWC001-111703 Filtered Grab Water Sample | 4166547 |
| MWB001-111703 Grab Water Sample | 4166548 |
| MWB001-111703 Filtered Grab Water Sample | 4166549 |

| | | |
|---|---|---|
| 1 COPY TO | Earth Tech | Attn: Ms. Lisa Smith |
| 1 COPY TO | Earth Tech | Attn: Mr. Rob Stenson |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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Lancaster Laboratories

Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300.

Respectfully Submitted,

Elizabeth A. Smith
Senior Chemist

MEMBER ACIL
Lancaster Laboratories, Inc.
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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166540**

**MW34S-111703 Grab Water Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 14:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:30
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

MW34S SDG#: DCN83-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 01754 | Iron | 7439-89-6 | 0.696 | 0.0453 | mg/l | 1 |
| 02268 | Ferric Iron | n.a. | 0.70 | 0.045 | mg/l | 1 |
| 07058 | Manganese | 7439-96-5 | 0.519 | 0.00051 | mg/l | 1 |
| 00201 | Alkalinity to pH 8.3 | n.a. | N.D. | 0.41 | mg/l as CaCO3 | 1 |
| 00202 | Alkalinity to pH 4.5 | n.a. | 362. | 0.41 | mg/l as CaCO3 | 1 |
| 00216 | Total Hardness | 471-34-1 | 546. | 2.5 | mg/l as CaCO3 | 5 |
| 00219 | Nitrite Nitrogen | 14797-65-0 | N.D. | 0.015 | mg/l | 1 |
| 00220 | Nitrate Nitrogen | 14797-55-8 | N.D. | 0.040 | mg/l | 1 |
| 00229 | Sulfite | 14265-45-3 | N.D. | 1.2 | mg/l | 1 |
| | The 40 CFR Part 136 requires that analysis for sulfite be performed immediately (within 15 minutes) upon sample collection. Although this analysis is performed promptly upon receipt at the laboratory, the results may not be acceptable for NPDES compliance monitoring. | | | | | |
| 00273 | Total Organic Carbon | n.a. | 1.5 J | 0.50 | mg/l | 1 |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | 138. | 7.5 | mg/l | 5 |
| 04001 | Chemical Oxygen Demand | n.a. | 16.2 J | 8.2 | mg/l | 1 |
| 08344 | Ferrous Iron | n.a. | N.D. | 0.0080 | mg/l | 1 |
| 07105 | Volatile Headspace Hydrocarbon | | | | | |
| 07107 | Ethane | 74-84-0 | N.D. | 1.0 | ug/l | 1 |
| 07108 | Ethene | 74-85-1 | N.D. | 1.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01754 | Iron | SW-846 6010B | 1 | 11/24/2003 06:58 | Joanne M Gates | 1 |
| 02268 | Ferric Iron | SW-846 6010B modified | 1 | 11/26/2003 13:15 | Tessa R Marshall | 1 |
| 07058 | Manganese | SW-846 6010B | 1 | 11/24/2003 06:58 | Joanne M Gates | 1 |
| 00201 | Alkalinity to pH 8.3 | EPA 310.1 | 1 | 11/19/2003 17:30 | Justin M Bowers | 1 |
| 00202 | Alkalinity to pH 4.5 | EPA 310.1 | 1 | 11/19/2003 17:30 | Justin M Bowers | 1 |
| 00216 | Total Hardness | EPA 130.2 (modified) | 1 | 11/18/2003 13:35 | Susan A Engle | 5 |

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166540**

**MW34S-111703 Grab Water Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 14:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:30
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

MW34S SDG#: DCN83-01

| | | | | | | |
|---|---|---|---|---|---|---|
| 00219 | Nitrite Nitrogen | EPA 353.2 | 1 | 11/19/2003 08:29 | Michelle A Bolton | 1 |
| 00220 | Nitrate Nitrogen | EPA 353.2 | 1 | 11/21/2003 18:58 | Venia B McFadden | 1 |
| 00229 | Sulfite | EPA 377.1 | 1 | 11/19/2003 07:00 | Michele L Graham | 1 |
| 00273 | Total Organic Carbon | EPA 415.1 | 1 | 11/20/2003 03:04 | Timothy M Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 11/20/2003 08:50 | Susan A Engle | 5 |
| 04001 | Chemical Oxygen Demand | EPA 410.4 | 1 | 11/19/2003 09:40 | Susan A Engle | 1 |
| 08344 | Ferrous Iron | SM 18, 3500-Fe D (modified) | 1 | 11/18/2003 20:20 | Daniel S Smith | 1 |
| 07105 | Volatile Headspace Hydrocarbon | SW-846 8015B, modified | 1 | 11/20/2003 21:16 | Tiffany A George | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 11/23/2003 20:45 | James L Mertz | 1 |

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Lancaster, PA 17605-2425
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2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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**ppb** parts per billion

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**Organic Qualifiers**

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**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166541**

**MW34S-111703 Filtered Grab Water Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 14:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:30
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

W34SF SDG#: DCN83-02

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 01754 | Iron | 7439-89-6 | N.D. | | 0.0453 | mg/l | 1 |
| 04001 | Chemical Oxygen Demand | n.a. | 20.8 | J | 8.2 | mg/l | 1 |

This sample was field filtered for dissolved metals and COD.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01754 | Iron | SW-846 6010B | 1 | 11/24/2003 07:03 | Joanne M Gates | 1 |
| 04001 | Chemical Oxygen Demand | EPA 410.4 | 1 | 11/19/2003 09:40 | Susan A Engle | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 11/23/2003 20:45 | James L Mertz | 1 |

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| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
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**ppb** parts per billion

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**Organic Qualifiers**

| | |
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| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
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| ***** | Duplicate analysis not within control limits |
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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166542**

**PZ34I-111703 Grab Water Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 15:30 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:30
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

PZ34I SDG#: DCN83-03

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 01754 | Iron | 7439-89-6 | 1.93 | | 0.0453 | mg/l | 1 |
| 02268 | Ferric Iron | n.a. | N.D. | | 0.080 | mg/l | 1 |
| 07058 | Manganese | 7439-96-5 | 0.158 | | 0.00051 | mg/l | 1 |
| 00201 | Alkalinity to pH 8.3 | n.a. | N.D. | | 0.41 | mg/l as CaCO3 | 1 |
| 00202 | Alkalinity to pH 4.5 | n.a. | 385. | | 0.41 | mg/l as CaCO3 | 1 |
| 00216 | Total Hardness | 471-34-1 | 526. | | 2.5 | mg/l as CaCO3 | 5 |
| 00219 | Nitrite Nitrogen | 14797-65-0 | N.D. | | 0.015 | mg/l | 1 |
| 00220 | Nitrate Nitrogen | 14797-55-8 | N.D. | | 0.040 | mg/l | 1 |
| 00229 | Sulfite | 14265-45-3 | N.D. | | 1.2 | mg/l | 1 |
| | The 40 CFR Part 136 requires that analysis for sulfite be performed immediately (within 15 minutes) upon sample collection. Although this analysis is performed promptly upon receipt at the laboratory, the results may not be acceptable for NPDES compliance monitoring. | | | | | | |
| 00273 | Total Organic Carbon | n.a. | 1.5 | J | 0.50 | mg/l | 1 |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | 104. | | 7.5 | mg/l | 5 |
| 04001 | Chemical Oxygen Demand | n.a. | 13.9 | J | 8.2 | mg/l | 1 |
| 08344 | Ferrous Iron | n.a. | 2.3 | | 0.080 | mg/l | 10 |
| 07105 | Volatile Headspace Hydrocarbon | | | | | | |
| 07107 | Ethane | 74-84-0 | N.D. | | 1.0 | ug/l | 1 |
| 07108 | Ethene | 74-85-1 | N.D. | | 1.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01754 | Iron | SW-846 6010B | 1 | 11/24/2003 07:16 | Joanne M Gates | 1 |
| 02268 | Ferric Iron | SW-846 6010B modified | 1 | 11/26/2003 13:18 | Tessa R Marshall | 1 |
| 07058 | Manganese | SW-846 6010B | 1 | 11/24/2003 07:16 | Joanne M Gates | 1 |
| 00201 | Alkalinity to pH 8.3 | EPA 310.1 | 1 | 11/19/2003 17:30 | Justin M Bowers | 1 |
| 00202 | Alkalinity to pH 4.5 | EPA 310.1 | 1 | 11/19/2003 17:30 | Justin M Bowers | 1 |
| 00216 | Total Hardness | EPA 130.2 (modified) | 1 | 11/18/2003 13:35 | Susan A Engle | 5 |

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| | |
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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166542**

**PZ34I-111703 Grab Water Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 15:30 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:30
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

PZ34I SDG#: DCN83-03

| | | | | | | |
|---|---|---|---|---|---|---|
| 00219 | Nitrite Nitrogen | EPA 353.2 | 1 | 11/19/2003 08:33 | Michelle A Bolton | 1 |
| 00220 | Nitrate Nitrogen | EPA 353.2 | 1 | 11/21/2003 20:45 | Venia B McFadden | 1 |
| 00229 | Sulfite | EPA 377.1 | 1 | 11/19/2003 07:00 | Michele L Graham | 1 |
| 00273 | Total Organic Carbon | EPA 415.1 | 1 | 11/20/2003 03:49 | Timothy M Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 11/20/2003 08:50 | Susan A Engle | 5 |
| 04001 | Chemical Oxygen Demand | EPA 410.4 | 1 | 11/19/2003 09:40 | Susan A Engle | 1 |
| 08344 | Ferrous Iron | SM 18, 3500-Fe D (modified) | 1 | 11/18/2003 20:20 | Daniel S Smith | 10 |
| 07105 | Volatile Headspace Hydrocarbon | SW-846 8015B, modified | 1 | 11/20/2003 21:26 | Tiffany A George | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 11/23/2003 20:45 | James L Mertz | 1 |

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166543**

**PZ34I-111703 Filtered Grab Water Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 15:30 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:30
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

Z34IF SDG#: DCN83-04

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 01754 | Iron | 7439-89-6 | 1.85 | | 0.0453 | mg/l | 1 |
| 04001 | Chemical Oxygen Demand | n.a. | 25.5 | J | 8.2 | mg/l | 1 |

This sample was field filtered for dissolved metals and COD.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01754 | Iron | SW-846 6010B | 1 | 11/24/2003 07:20 | Joanne M Gates | 1 |
| 04001 | Chemical Oxygen Demand | EPA 410.4 | 1 | 11/19/2003 09:40 | Susan A Engle | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 11/23/2003 20:45 | James L Mertz | 1 |

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| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166544**

**PZ34D-111703 Grab Water Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 14:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:30
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

PZ34D SDG#: DCN83-05

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 01754 | Iron | 7439-89-6 | 2.44 | | 0.0453 | mg/l | 1 |
| 02268 | Ferric Iron | n.a. | 0.38 | J | 0.080 | mg/l | 1 |
| 07058 | Manganese | 7439-96-5 | 0.177 | | 0.00051 | mg/l | 1 |
| 00201 | Alkalinity to pH 8.3 | n.a. | N.D. | | 0.41 | mg/l as CaCO3 | 1 |
| 00202 | Alkalinity to pH 4.5 | n.a. | 390. | | 0.41 | mg/l as CaCO3 | 1 |
| 00216 | Total Hardness | 471-34-1 | 530. | | 2.5 | mg/l as CaCO3 | 5 |
| 00219 | Nitrite Nitrogen | 14797-65-0 | N.D. | | 0.015 | mg/l | 1 |
| 00220 | Nitrate Nitrogen | 14797-55-8 | N.D. | | 0.040 | mg/l | 1 |
| 00229 | Sulfite | 14265-45-3 | N.D. | | 1.2 | mg/l | 1 |
| | The 40 CFR Part 136 requires that analysis for sulfite be performed immediately (within 15 minutes) upon sample collection. Although this analysis is performed promptly upon receipt at the laboratory, the results may not be acceptable for NPDES compliance monitoring. | | | | | | |
| 00273 | Total Organic Carbon | n.a. | 1.5 | J | 0.50 | mg/l | 1 |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | 94.9 | | 7.5 | mg/l | 5 |
| 04001 | Chemical Oxygen Demand | n.a. | 16.2 | J | 8.2 | mg/l | 1 |
| 08344 | Ferrous Iron | n.a. | 2.1 | | 0.080 | mg/l | 10 |
| 07105 | Volatile Headspace Hydrocarbon | | | | | | |
| 07107 | Ethane | 74-84-0 | N.D. | | 1.0 | ug/l | 1 |
| 07108 | Ethene | 74-85-1 | N.D. | | 1.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01754 | Iron | SW-846 6010B | 1 | 11/24/2003 07:25 | Joanne M Gates | 1 |
| 02268 | Ferric Iron | SW-846 6010B modified | 1 | 11/26/2003 13:20 | Tessa R Marshall | 1 |
| 07058 | Manganese | SW-846 6010B | 1 | 11/24/2003 07:25 | Joanne M Gates | 1 |
| 00201 | Alkalinity to pH 8.3 | EPA 310.1 | 1 | 11/19/2003 17:30 | Justin M Bowers | 1 |
| 00202 | Alkalinity to pH 4.5 | EPA 310.1 | 1 | 11/19/2003 17:30 | Justin M Bowers | 1 |
| 00216 | Total Hardness | EPA 130.2 (modified) | 1 | 11/18/2003 13:35 | Susan A Engle | 5 |

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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

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Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166544**

**PZ34D-111703 Grab Water Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 14:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:30
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

PZ34D SDG#: DCN83-05

| | | | | | | |
|---|---|---|---|---|---|---|
| 00219 | Nitrite Nitrogen | EPA 353.2 | 1 | 11/19/2003 08:34 | Michelle A Bolton | 1 |
| 00220 | Nitrate Nitrogen | EPA 353.2 | 1 | 11/21/2003 18:57 | Venia B McFadden | 1 |
| 00229 | Sulfite | EPA 377.1 | 1 | 11/19/2003 07:00 | Michele L Graham | 1 |
| 00273 | Total Organic Carbon | EPA 415.1 | 1 | 11/20/2003 03:52 | Timothy M Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 11/20/2003 08:50 | Susan A Engle | 5 |
| 04001 | Chemical Oxygen Demand | EPA 410.4 | 1 | 11/19/2003 09:40 | Susan A Engle | 1 |
| 08344 | Ferrous Iron | SM 18, 3500-Fe D (modified) | 1 | 11/18/2003 20:20 | Daniel S Smith | 10 |
| 07105 | Volatile Headspace Hydrocarbon | SW-846 8015B, modified | 1 | 11/20/2003 21:05 | Tiffany A George | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 11/23/2003 20:45 | James L Mertz | 1 |

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2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166545**

**PZ34D-111703 Filtered Grab Water Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 14:25 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:30
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

Z34DF SDG#: DCN83-06

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 01754 | Iron | 7439-89-6 | 2.05 | | 0.0453 | mg/l | 1 |
| 04001 | Chemical Oxygen Demand | n.a. | 18.5 | J | 8.2 | mg/l | 1 |

This sample was field filtered for dissolved metals and COD.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01754 | Iron | SW-846 6010B | 1 | 11/24/2003 07:29 | Joanne M Gates | 1 |
| 04001 | Chemical Oxygen Demand | EPA 410.4 | 1 | 11/19/2003 09:40 | Susan A Engle | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 11/23/2003 20:45 | James L Mertz | 1 |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**>** greater than

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166546**

**MWC001-111703 Grab Water Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 16:40 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:30
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

W0001 SDG#: DCN83-07

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 01754 | Iron | 7439-89-6 | 2.63 | 0.0453 | mg/l | 1 |
| 02268 | Ferric Iron | n.a. | N.D. | 0.080 | mg/l | 1 |
| 07058 | Manganese | 7439-96-5 | 0.0588 | 0.00051 | mg/l | 1 |
| 00201 | Alkalinity to pH 8.3 | n.a. | N.D. | 0.41 | mg/l as CaCO3 | 1 |
| 00202 | Alkalinity to pH 4.5 | n.a. | 305. | 0.41 | mg/l as CaCO3 | 1 |
| 00216 | Total Hardness | 471-34-1 | 435. | 2.5 | mg/l as CaCO3 | 5 |
| 00219 | Nitrite Nitrogen | 14797-65-0 | N.D. | 0.015 | mg/l | 1 |
| 00220 | Nitrate Nitrogen | 14797-55-8 | N.D. | 0.040 | mg/l | 1 |
| 00229 | Sulfite | 14265-45-3 | N.D. | 1.2 | mg/l | 1 |
| | The 40 CFR Part 136 requires that analysis for sulfite be performed immediately (within 15 minutes) upon sample collection. Although this analysis is performed promptly upon receipt at the laboratory, the results may not be acceptable for NPDES compliance monitoring. | | | | | |
| 00273 | Total Organic Carbon | n.a. | 1.1 J | 0.50 | mg/l | 1 |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | 61.3 | 7.5 | mg/l | 5 |
| 08344 | Ferrous Iron | n.a. | 2.5 | 0.080 | mg/l | 10 |
| 07105 | Volatile Headspace Hydrocarbon | | | | | |
| 07107 | Ethane | 74-84-0 | N.D. | 1.0 | ug/l | 1 |
| 07108 | Ethene | 74-85-1 | N.D. | 1.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01754 | Iron | SW-846 6010B | 1 | 11/24/2003 07:33 | Joanne M Gates | 1 |
| 02268 | Ferric Iron | SW-846 6010B modified | 1 | 11/26/2003 13:23 | Tessa R Marshall | 1 |
| 07058 | Manganese | SW-846 6010B | 1 | 11/24/2003 07:33 | Joanne M Gates | 1 |
| 00201 | Alkalinity to pH 8.3 | EPA 310.1 | 1 | 11/19/2003 17:30 | Justin M Bowers | 1 |
| 00202 | Alkalinity to pH 4.5 | EPA 310.1 | 1 | 11/19/2003 17:30 | Justin M Bowers | 1 |
| 00216 | Total Hardness | EPA 130.2 (modified) | 1 | 11/18/2003 13:35 | Susan A Engle | 5 |
| 00219 | Nitrite Nitrogen | EPA 353.2 | 1 | 11/19/2003 08:35 | Michelle A Bolton | 1 |

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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
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| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

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**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

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*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
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|---|---|
| **B** | Value is <CRDL, but ≥IDL |
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| **N** | Spike sample not within control limits |
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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166546**

**MWC001-111703 Grab Water Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 16:40 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:30
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

W0001 SDG#: DCN83-07

| | | | | | | |
|---|---|---|---|---|---|---|
| 00220 | Nitrate Nitrogen | EPA 353.2 | 1 | 11/25/2003 14:20 | Katherine D Webster | 1 |
| 00229 | Sulfite | EPA 377.1 | 1 | 11/19/2003 07:00 | Michele L Graham | 1 |
| 00273 | Total Organic Carbon | EPA 415.1 | 1 | 11/20/2003 04:00 | Timothy M Petree | 1 |
| 01125 | Sulfate (turbidimetric) | EPA 375.4 | 1 | 11/20/2003 08:50 | Susan A Engle | 5 |
| 08344 | Ferrous Iron | SM 18, 3500-Fe D (modified) | 1 | 11/18/2003 20:20 | Daniel S Smith | 10 |
| 07105 | Volatile Headspace Hydrocarbon | SW-846 8015B, modified | 1 | 11/20/2003 21:37 | Tiffany A George | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 11/23/2003 20:45 | James L Mertz | 1 |

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166547**

**MWC001-111703 Filtered Grab Water Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 16:40 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:30
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

0001F SDG#: DCN83-08

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 01754 | Iron | 7439-89-6 | 2.44 | | 0.0453 | mg/l | 1 |
| 04001 | Chemical Oxygen Demand | n.a. | 13.9 | J | 8.2 | mg/l | 1 |

This sample was field filtered for dissolved metals and COD.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01754 | Iron | SW-846 6010B | 1 | 11/24/2003 06:32 | Joanne M Gates | 1 |
| 04001 | Chemical Oxygen Demand | EPA 410.4 | 1 | 11/19/2003 09:40 | Susan A Engle | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 11/23/2003 20:45 | James L Mertz | 1 |

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166548**

**MWB001-111703 Grab Water Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 17:05 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:30
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

WB001 SDG#: DCN83-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 01754 | Iron | 7439-89-6 | 22.3 | 0.0453 | mg/l | 1 |
| 02268 | Ferric Iron | n.a. | 20.8 | 0.045 | mg/l | 1 |
| 07058 | Manganese | 7439-96-5 | 0.305 | 0.00051 | mg/l | 1 |
| 00201 | Alkalinity to pH 8.3 | n.a. | N.D. | 0.41 | mg/l as CaCO3 | 1 |
| 00202 | Alkalinity to pH 4.5 | n.a. | 360. | 0.41 | mg/l as CaCO3 | 1 |
| 00216 | Total Hardness | 471-34-1 | 1,040. | 4.9 | mg/l as CaCO3 | 10 |
| 00219 | Nitrite Nitrogen | 14797-65-0 | 0.46 | 0.015 | mg/l | 1 |
| 00220 | Nitrate Nitrogen | 14797-55-8 | N.D. | 0.040 | mg/l | 1 |
| 00229 | Sulfite | 14265-45-3 | N.D. | 1.2 | mg/l | 1 |
| | The 40 CFR Part 136 requires that analysis for sulfite be performed immediately (within 15 minutes) upon sample collection. Although this analysis is performed promptly upon receipt at the laboratory, the results may not be acceptable for NPDES compliance monitoring. | | | | | |
| 00273 | Total Organic Carbon | n.a. | 4.3 | 0.50 | mg/l | 1 |
| 01125 | Sulfate (turbidimetric) | 14808-79-8 | 63.6 | 7.5 | mg/l | 5 |
| 08344 | Ferrous Iron | n.a. | 1.5 | 0.040 | mg/l | 5 |
| 07105 | Volatile Headspace Hydrocarbon | | | | | |
| 07107 | Ethane | 74-84-0 | N.D. | 1.0 | ug/l | 1 |
| 07108 | Ethene | 74-85-1 | N.D. | 1.0 | ug/l | 1 |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01754 | Iron | SW-846 6010B | 1 | 11/24/2003 07:38 | Joanne M Gates | 1 |
| 02268 | Ferric Iron | SW-846 6010B modified | 1 | 11/26/2003 13:25 | W. John Delaney III | 1 |
| 07058 | Manganese | SW-846 6010B | 1 | 11/24/2003 07:38 | Joanne M Gates | 1 |
| 00201 | Alkalinity to pH 8.3 | EPA 310.1 | 1 | 11/19/2003 17:30 | Justin M Bowers | 1 |
| 00202 | Alkalinity to pH 4.5 | EPA 310.1 | 1 | 11/19/2003 17:30 | Justin M Bowers | 1 |
| 00216 | Total Hardness | EPA 130.2 (modified) | 1 | 11/18/2003 13:35 | Susan A Engle | 10 |
| 00219 | Nitrite Nitrogen | EPA 353.2 | 1 | 11/19/2003 08:36 | Michelle A Bolton | 1 |

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WB001 SDG#: DCN83-09

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| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

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# Analysis Report

Lancaster Laboratories



**Lancaster Laboratories Sample No. WW 4166549**

**MWB001-111703 Filtered Grab Water Sample**
**Site Code: SC001 RFA# ET03076**
**Dayton Thermal/Dayton, OH**
Collected:11/17/2003 17:05 by DD

Account Number: 10160

Submitted: 11/18/2003 09:45
Reported: 12/01/2003 at 10:30
Discard: 01/31/2004

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

B001F SDG#: DCN83-10*

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 01754 | Iron | 7439-89-6 | 0.998 | | 0.0453 | mg/l | 1 |
| 04001 | Chemical Oxygen Demand | n.a. | 9.2 | J | 8.2 | mg/l | 1 |

This sample was field filtered for dissolved metals and COD.

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01754 | Iron | SW-846 6010B | 1 | 11/24/2003 07:42 | Joanne M Gates | 1 |
| 04001 | Chemical Oxygen Demand | EPA 410.4 | 1 | 11/19/2003 09:40 | Susan A Engle | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 11/23/2003 20:45 | James L Mertz | 1 |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
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| **ug** | microgram(s) | **mg** | milligram(s) |
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**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
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# Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 12/01/03 at 10:30 AM

Group Number: 875289

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Batch number: 03322021602A | Sample number(s): 4166540,4166542,4166544,4166546,4166548 | | | | | | | |
| Total Hardness | N.D. | 0.49 | mg/l as Ca | 100 | | 98-107 | | |
| Batch number: 03322834401A | Sample number(s): 4166540,4166542,4166544,4166546,4166548 | | | | | | | |
| Ferrous Iron | N.D. | 0.0080 | mg/l | 100 | | 92-105 | | |
| Batch number: 03323011112A | Sample number(s): 4166540,4166542,4166544,4166546,4166548 | | | | | | | |
| Total Organic Carbon | 1.4 J | 0.50 | mg/l | 95 | | 89-115 | | |
| Batch number: 03323020201B | Sample number(s): 4166540,4166542,4166544,4166546,4166548 | | | | | | | |
| Alkalinity to pH 4.5 | | | | 100 | | 98-103 | | |
| Batch number: 03323022901A | Sample number(s): 4166540,4166542,4166544,4166546,4166548 | | | | | | | |
| Sulfite | N.D. | 1.2 | mg/l | 76 | | 68-103 | | |
| Batch number: 03323105101A | Sample number(s): 4166540,4166542,4166544,4166546,4166548 | | | | | | | |
| Nitrite Nitrogen | N.D. | 0.015 | mg/l | 100 | | 89-110 | | |
| Batch number: 03323400101A | Sample number(s): 4166540-4166545,4166547,4166549 | | | | | | | |
| Chemical Oxygen Demand | | | | 99 | | 95-107 | | |
| Batch number: 033240025A | Sample number(s): 4166540,4166542,4166544,4166546,4166548 | | | | | | | |
| Ethane | N.D. | 1.0 | ug/l | 95 | | 80-120 | | |
| Ethene | N.D. | 1.0 | ug/l | 95 | | 80-120 | | |
| Batch number: 03324112501A | Sample number(s): 4166540,4166542,4166544,4166546,4166548 | | | | | | | |
| Sulfate (turbidimetric) | N.D. | 1.5 | mg/l | 97 | | 90-110 | | |
| Batch number: 03325106101B | Sample number(s): 4166540,4166544 | | | | | | | |
| Nitrate Nitrogen | N.D. | 0.040 | mg/l | 106 | | 89-110 | | |
| Batch number: 03325106102B | Sample number(s): 4166542 | | | | | | | |
| Nitrate Nitrogen | N.D. | 0.040 | mg/l | 103 | | 89-110 | | |
| Batch number: 033271848003 | Sample number(s): 4166540-4166549 | | | | | | | |
| Iron | N.D. | 0.0453 | mg/l | 104 | | 91-114 | | |
| Manganese | N.D. | 0.00051 | mg/l | 103 | | 93-110 | | |
| Batch number: 03329106101A | Sample number(s): 4166546,4166548 | | | | | | | |
| Nitrate Nitrogen | N.D. | 0.040 | mg/l | 99 | | 89-110 | | |

## Sample Matrix Quality Control

*- Outside of specification
(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.

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# Quality Control Summary

Client Name: DaimlerChrysler Corporation  Group Number: 875289
Reported: 12/01/03 at 10:30 AM

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 03322021602A | Sample number(s): 4166540,4166542,4166544,4166546,4166548 | | | | | | | | |
| Total Hardness | 99 | 100 | 93-115 | 1 | 2 | 147. | 148. | 1 | 4 |
| Batch number: 03322834401A | Sample number(s): 4166540,4166542,4166544,4166546,4166548 | | | | | | | | |
| Ferrous Iron | 95 | 93 | 76-119 | 1 | 5 | 2.5 | 2.4 | 4 (1) | 20 |
| Batch number: 03323011112A | Sample number(s): 4166540,4166542,4166544,4166546,4166548 | | | | | | | | |
| Total Organic Carbon | 95 | | 63-136 | | | 1.5 J | 1.6 J | 1 (1) | 3 |
| Batch number: 03323020201B | Sample number(s): 4166540,4166542,4166544,4166546,4166548 | | | | | | | | |
| Alkalinity to pH 8.3 | | | | | | N.D. | N.D. | 0 (1) | 4 |
| Alkalinity to pH 4.5 | 83 | 90 | 64-130 | 2 | 2 | 362. | 366. | 1 | 4 |
| Batch number: 03323022901A | Sample number(s): 4166540,4166542,4166544,4166546,4166548 | | | | | | | | |
| Sulfite | 75 | 78 | 29-104 | 4 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Batch number: 03323105101A | Sample number(s): 4166540,4166542,4166544,4166546,4166548 | | | | | | | | |
| Nitrite Nitrogen | 100 | | 90-110 | | | N.D. | N.D. | 0 (1) | 20 |
| Batch number: 03323400101A | Sample number(s): 4166540-4166545,4166547,4166549 | | | | | | | | |
| Chemical Oxygen Demand | 96 | 96 | 90-110 | 0 | 2 | 9.2 J | 11.5 J | 22* (1) | 4 |
| Batch number: 033240025A | Sample number(s): 4166540,4166542,4166544,4166546,4166548 | | | | | | | | |
| Ethane | 98 | 98 | 71-128 | 0 | 20 | | | | |
| Ethene | 98 | 98 | 68-142 | 0 | 20 | | | | |
| Batch number: 03324112501A | Sample number(s): 4166540,4166542,4166544,4166546,4166548 | | | | | | | | |
| Sulfate (turbidimetric) | 93 | 93 | 69-124 | 0 | 4 | 61.3 | 54.2 | 12* (1) | 4 |
| Batch number: 03325106101B | Sample number(s): 4166540,4166544 | | | | | | | | |
| Nitrate Nitrogen | 103 | | 90-110 | | | 0.42 | 0.43 | 3* (1) | 2 |
| Batch number: 03325106102B | Sample number(s): 4166542 | | | | | | | | |
| Nitrate Nitrogen | 102 | | 90-110 | | | N.D. | N.D. | 0 (1) | 2 |
| Batch number: 033271848003 | Sample number(s): 4166540-4166549 | | | | | | | | |
| Iron | 98 | 94 | 75-125 | 1 | 20 | 2.44 | 2.39 | 2 | 20 |
| Manganese | 102 | 102 | 85-111 | 0 | 20 | 0.0557 | 0.0544 | 2 | 20 |
| Batch number: 03329106101A | Sample number(s): 4166546,4166548 | | | | | | | | |
| Nitrate Nitrogen | 103 | | 90-110 | | | N.D. | N.D. | 0 (1) | 2 |

## Surrogate Quality Control

Analysis Name: Volatile Headspace Hydrocarbon

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# Quality Control Summary

Client Name: DaimlerChrysler Corporation
Group Number: 875289
Reported: 12/01/03 at 10:30 AM

## Surrogate Quality Control

Batch number: 033240025A

| | Propene |
|---|---|
| 4166540 | 86 |
| 4166542 | 83 |
| 4166544 | 85 |
| 4166546 | 87 |
| 4166548 | 86 |
| Blank | 99 |
| LCS | 97 |
| MS | 93 |
| MSD | 93 |
| Limits: | 58-129 |

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**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601
Phone (717)-656-2300
Fax (717) 656-2681

# DAIMLERCHRYSLER CORPORATION
# BOTTLE REQUEST AND SHIPMENT FORM

0718 B

| PARAMETER | NO. OF BOTTLES NEEDED FOR TEST | NO. OF BOTTLES SENT | CHEMICAL PRESERVATIVE | PRESERVATIVE LOT NO. | BOTTLE TYPE | BOTTLE LOT NO. |
|---|---|---|---|---|---|---|
| Volatiles (H2O) | 3 | 501 | HCl | H613N36A1 | Vials (40 ml) | 3267013 |
| Semivolatiles (H2O) | 2* | | None | N/A | Amber Liter | |
| PCBs (H2O) | 2* | | None | N/A | Amber Liter | |
| Metals (H2O) | 1 | 70 | HNO3 | 03-307-02 | Plastic ~~Liter~~ 500 ml | 505650 |
| Cyanide (H2O) | 1 | | NaOH/ascorbic acid | | Plastic Liter | |
| TPH- 418.1 (H2O) | 2* | | HCl | | Amber Liter | |
| TPH-GRO (H2O) | 3 | | HCl | | Vials (40 ml) | |
| TPH-DRO (H2O) | 2* | | HCl | | Amber Liter | |
| Volatiles (Soil) | 1 | | None | N/A | 125ml Glass Jar | |
| Volatiles (Soil - Low Level) | 3 | | None | N/A | 5 g Encore Samplers | |
| Volatiles (Soil - High Level) | 1 | | None | N/A | 5 g Encore Samplers | |
| TPH-GRO (Soil) | 2 | | None | N/A | 5 g Encore Samplers | |
| Semivolatiles/PCBs/418.1/ DRO/Metals/Moisture (Soil) | 1 | | None | N/A | 500ml Glass Jar | |
| T. Hard | 1 | 36 | HNO3 | 03-217-01 | 500ml plastic | N/A 495977 |
| SO4 | 1 | 35 | None | N/A | 500ml plastic | N/A 495277 |
| Alkalinity | 1 | 35 | None | N/A | 500ml plastic | N/A 505650 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| DI Water | N/A | ~~4~~ 6 | N/A | N/A | Amber ~~Liter~~ 1/2 gal | 000300 |
| Trip Blank | 2 | 14 | HCl | H613N36A1 | Vials (40 ml) | 3267013 |
| Temperature Blank | N/A | 1 per cooler | N/A | N/A | N/A | N/A |

Project Name: Dayton Thermal
RFA Number: FT03076
Ship To Address:
FedEx World Service Center
Airport Area
3605 Concorde Rd.
Vandalia, OH 45377
Attn: Hold for Earth Tech

Customer Service Rep: Kathy Klinefelter Date 11/6/03

pH strips? Yes / No Labels? Yes / No
DaimlerChrysler COCs? Yes / No Custody seals? Yes / No
Site-specific MS/MSD ? Yes / No
Cooler No(s):
Packed by: K [signature] Date 11-6-03
Shipped by: [signature] Date 11/6/03

**THIS SECTION COMPLETED BY ENGINEERING FIRM:**
Recipient's Signature: [signature] Was all glassware received? Yes / No Received in good condition? Yes / No
Date Received: Explain

**Sampling Notes:**
* - Two one-liter bottles are recommended for collection of semivolatiles, PCBs and TPH-DRO to allow for sample reextraction. However, if well volumes do not permit collection of this volume for each parameter, a minimum of 1 liter is required for each parameter.

IF SITE-SPECIFIC MS/MSD REQUESTED IN RFA: Additional bottles have been provided to permit collection of adequate volumes for SITE-SPECIFIC MS/MSD analyses for each analytical parameter. MS/MSD samples should be collected for each parameter and matrix at a rate of 1 in 20 samples or per sampling event if less than 20 samples are collected.

Additional Comments:

Please return all unused glassware and coolers when sampling is complete. Please return this form with final sample shipment.

White copy - original - return to lab Yellow copy - retained by field Pink copy - retained by shipper
Revision 1 / July 9, 1999

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601
Phone (717)-656-2300
Fax (717) 656-2681

# DAIMLERCHRYSLER CORPORATION BOTTLE REQUEST AND SHIPMENT FORM

0717 B

| PARAMETER | NO. OF BOTTLES NEEDED FOR TEST | NO. OF BOTTLES SENT | CHEMICAL PRESERVATIVE | PRESERVATIVE LOT NO. | BOTTLE TYPE | BOTTLE LOT NO. |
|---|---|---|---|---|---|---|
| Volatiles (H2O) | 3 | | HCl | | Vials (40 ml) | |
| Semivolatiles (H2O) | 2* | | None | N/A | Amber Liter | |
| PCBs (H2O) | 2* | | None | N/A | Amber Liter | |
| Metals (H2O) | 1 | | HNO3 | | Plastic Liter | |
| Cyanide (H2O) | 1 | | NaOH/ascorbic acid | | Plastic Liter | |
| TPH- 418.1 (H2O) | 2* | | HCl | | Amber Liter | |
| TPH-GRO (H2O) | 3 | | HCl | | Vials (40 ml) | |
| TPH-DRO (H2O) | 2* | | HCl | | Amber Liter | |
| Volatiles (Soil) | 1 | | None | N/A | 125ml Glass Jar | |
| Volatiles (Soil - Low Level) | 3 | | None | N/A | 5 g Encore Samplers | |
| Volatiles (Soil - High Level) | 1 | | None | N/A | 5 g Encore Samplers | |
| TPH-GRO (Soil) | 2 | | None | N/A | 5 g Encore Samplers | |
| Semivolatiles/PCBs/418.1/ DRO/Metals/Moisture (Soil) | 1 | | None | N/A | 500ml Glass Jar | |
| TOC | 1 | 35 | H3PO4 | 03-44-03 | 120ml red glass | 002821 |
| 8015B | 2 | 70 | HCl | H613N3641 | Vials (40ml) | 3267013 |
| SO3 | 1 | 35 | None | N/A | 250ml red amber glass | 000075 |
| NO2 | 1 | 35 | None | N/A | Vials (40ml) | 3267013 |
| NO3 | 1 | 35 | Sulfuric | | Vials (40ml) | 3233010 |
| COD | 1 | 70 | Sulfuric | √ | clr glass liter | 003720 |
| Fe 2+ | 1 | 35 | HCl | | 250ml amber glass | 000075 |
| DI Water | N/A | | N/A | N/A | Amber Liter | |
| Trip Blank | 2 | | HCl | | Vials (40 ml) | |
| Temperature Blank | N/A | 1 per cooler | N/A | N/A | N/A | N/A |

Project Name: Dayton Thermal
RFA Number: H0.3076
Ship To Address:
FedEx World Service Center
Airport Area
3605 Concorde Rd.
Vandalia, OH 45377
Attn: Hold For Earth Tech

Customer Service Rep: Kathy Klingefeller
Date: 11/6/03

pH strips? Yes / No
Labels? Yes / No C07843 C0765
DaimlerChrysler COCs? Yes / No
Custody seals? Yes / No C07846 C05759
Site-specific MS/MSD ? Yes / No
Cooler No(s): C06762 C07656 C07287 C07847 C07846
Packed by: [signature] Date 11-6-03
Shipped by: [signature] Date 11/6/03

**THIS SECTION COMPLETED BY ENGINEERING FIRM:**
Recipient's Signature: [signature]
Date Received:
Was all glassware received? Yes / No
Explain
Received in good condition? Yes / No

**Sampling Notes:**

* - Two one-liter bottles are recommended for collection of semivolatiles, PCBs and TPH-DRO to allow for sample reextraction. However, if well volumes do not permit collection of this volume for each parameter, a minimum of 1 liter is required for each parameter.

IF SITE-SPECIFIC MS/MSD REQUESTED IN RFA: Additional bottles have been provided to permit collection of adequate volumes for SITE-SPECIFIC MS/MSD analyses for each analytical parameter. MS/MSD samples should be collected for each parameter and matrix at a rate of 1 in 20 samples or per sampling event if less than 20 samples are collected.

Additional Comments: Coolers - C05594 C07556 C05322 C06501 C03953 C07132 C05114 C05454 C07845 C00542 C06375 C07851 C07402 C04759

Please return all unused glassware and coolers when sampling is complete. Please return this form with final sample shipment.

White copy - original - return to lab
Revision 1 / July 9, 1999

Yellow copy - retained by field

Pink copy - retained by shipper