



Submitted To: Kerri Castlen  
Hamilton County Environmental Services  
250 William Howard Taft Road  
Cincinnati, OH  
45219

Reference Data:

Sample Location: Lanxess  
Sample Type: Canister  
Client Sample No.: 108709060905  
PO #: Not Available  
Method Reference: TO-15  
Sample Set ID#: 05-M-3184  
DATACHEM Lab No.: 05-19888  
Sample Receipt Date: 6/10/2005  
Analysis Date: 6/14/2005

Sample condition was acceptable upon receipt except where noted.

The above numbered samples were analyzed for volatile organic compounds by EPA method TO-15 using an Entech 7000 Cryogenic Preconcentrator and a Hewlett-Packard GC/MS/DS operating in the scan mode.

Quantitation is based upon average response factors generated from a five-point curve. The results are provided in the enclosed data table. Results relate only to the items tested and are not blank corrected.

This report shall not be reproduced except in full, without the written approval of the laboratory.

  
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Mark Johnson

Data Table PPB

| Client #                  | 1087090609<br>05 |       |  |  | EQL  |
|---------------------------|------------------|-------|--|--|------|
| DCL #                     | 05-19888         | Blank |  |  |      |
| Propene                   | ND               | ND    |  |  | 1    |
| Dichlorodifluoromethane   | ND               | ND    |  |  | 1    |
| Freon 114                 | ND               | ND    |  |  | 1    |
| Chloromethane             | ND               | ND    |  |  | 1    |
| 1,3-Butadiene             | ND               | ND    |  |  | 0.5* |
| Vinyl Chloride            | ND               | ND    |  |  | 1    |
| Bromomethane              | ND               | ND    |  |  | 1    |
| Chloroethane              | ND               | ND    |  |  | 1    |
| Trichlorofluoromethane    | ND               | ND    |  |  | 1    |
| 2-Propanol                | ND               | ND    |  |  | 1    |
| 1,1-Dichloroethene        | ND               | ND    |  |  | 1    |
| Freon 113                 | ND               | ND    |  |  | 1    |
| Acetone                   | ND               | ND    |  |  | 8    |
| Carbon Disulfide          | ND               | ND    |  |  | 1    |
| Methylene Chloride        | ND               | ND    |  |  | 1    |
| MTBE                      | ND               | ND    |  |  | 1    |
| Trans 1,2-Dichloroethene  | ND               | ND    |  |  | 1    |
| Vinyl Acetate             | ND               | ND    |  |  | 1    |
| Hexane                    | ND               | ND    |  |  | 1    |
| 1,1-Dichloroethane        | ND               | ND    |  |  | 1    |
| Cis-1,2-Dichloroethene    | ND               | ND    |  |  | 1    |
| 2-Butanone                | ND               | ND    |  |  | 1    |
| Ethyl Acetate             | ND               | ND    |  |  | 1    |
| Chloroform                | ND               | ND    |  |  | 1    |
| Tetrahydrofuran           | ND               | ND    |  |  | 1    |
| 1,1,1-Trichloroethane     | ND               | ND    |  |  | 1    |
| Cyclohexane               | ND               | ND    |  |  | 1    |
| Carbon Tetrachloride      | ND               | ND    |  |  | 1    |
| Heptane                   | ND               | ND    |  |  | 1    |
| Benzene                   | 2                | ND    |  |  | 1    |
| 1,2-Dichloroethane        | ND               | ND    |  |  | 1    |
| Trichloroethene           | ND               | ND    |  |  | 1    |
| 1,2-Dichloropropane       | ND               | ND    |  |  | 1    |
| 1,4 Dioxane               | ND               | ND    |  |  | 1    |
| Bromodichloromethane      | ND               | ND    |  |  | 1    |
| cis-1,3-Dichloropropene   | ND               | ND    |  |  | 1    |
| 4-Methyl 2-Pentanone      | ND               | ND    |  |  | 1    |
| Toluene                   | ND               | ND    |  |  | 1    |
| trans-1,3-Dichloropropene | ND               | ND    |  |  | 1    |
| 1,1,2-Trichloroethane     | ND               | ND    |  |  | 1    |
| Tetrachloroethene         | ND               | ND    |  |  | 1    |
| 2-Hexanone                | ND               | ND    |  |  | 1    |
| Dibromochloromethane      | ND               | ND    |  |  | 1    |

ND indicates not detected at or above the EQL value.

Data Table PPB

|                           |                  |       |  |  |      |
|---------------------------|------------------|-------|--|--|------|
| Client #                  | 1087090609<br>05 |       |  |  | EQL  |
| DCL #                     | 05-19888         | Blank |  |  |      |
| 1,2-Dibromoethane         | ND               | ND    |  |  | 1    |
| Chlorobenzene             | ND               | ND    |  |  | 1    |
| Ethylbenzene              | ND               | ND    |  |  | 1    |
| M&P Xylene                | ND               | ND    |  |  | 1    |
| O Xylene                  | ND               | ND    |  |  | 1    |
| Styrene                   | 0.8              | ND    |  |  | 0.5* |
| Bromoform                 | ND               | ND    |  |  | 1    |
| 1,1,2,2-Tetrachloroethane | ND               | ND    |  |  | 1    |
| 4-Ethyl Toluene           | ND               | ND    |  |  | 1    |
| 1,3,5-Trimethylbenzene    | ND               | ND    |  |  | 1    |
| 1,2,4-Trimethylbenzene    | ND               | ND    |  |  | 1    |
| 1,3-Dichlorobenzene       | ND               | ND    |  |  | 1    |
| 1,4-Dichlorobenzene       | ND               | ND    |  |  | 1    |
| Benzyl Chloride           | ND               | ND    |  |  | 1    |
| 1,2-Dichlorobenzene       | ND               | ND    |  |  | 1    |
| 1,2,4-Trichlorobenzene    | ND               | ND    |  |  | 1    |
| Hexachlorobutadiene       | ND               | ND    |  |  | 1    |
| Acrylonitrile             | ND               | ND    |  |  | 0.5* |

ND indicates not detected at or above the EQL value. \*MDL value.

Internal Standard Recovery

|                           |    |     |  |  |
|---------------------------|----|-----|--|--|
| % Rec Bromochloromethane  | 93 | 96  |  |  |
| % Rec 1,4-Difluorobenzene | 97 | 132 |  |  |
| % Rec Chlorobenzene-d5    | 96 | 98  |  |  |

Surrogate Recovery

|                          |    |    |  |  |
|--------------------------|----|----|--|--|
| % Rec Bromofluorobenzene | 88 | 85 |  |  |
|--------------------------|----|----|--|--|

Acceptable Internal Standard and Surrogate recovery range between 60-140.

Unknown Compounds Tentative Identification

PPB

|                 |    |  |  |  |
|-----------------|----|--|--|--|
| Ethanol*        | 27 |  |  |  |
| Butanol Isomer* | 14 |  |  |  |
| Benzaldehyde*   | 10 |  |  |  |
| Octene Isomer*  | 11 |  |  |  |

\* Tentative identification based on NBS spectral library. Quantitated values are based on a response factor of 1 and comparison to the closest internal standard and should be considered estimates.



Mark Johnson  
Analyst



Reviewer

