



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.: 108896060305  
PO #: Not Available  
Method Reference: TO-15  
Sample Set ID#: 05-M-3117  
DATACHEM Lab No.: 05-19324  
Sample Receipt Date: 6/7/2005  
Analysis Date: 6/9/2005

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.

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A handwritten signature in black ink that reads "Mark Johnson". The signature is written in a cursive style and is positioned above a horizontal line.

Mark Johnson

Data Table PPB

| Client #                  | 1088960603<br>05 |       |  |  | EQL  |
|---------------------------|------------------|-------|--|--|------|
| DCL #                     | 05-19324         | Blank |  |  |      |
| Propene                   | ND               | ND    |  |  | 1    |
| Dichlorodifluoromethane   | ND               | ND    |  |  | 1    |
| Freon 114                 | ND               | ND    |  |  | 1    |
| Chloromethane             | ND               | ND    |  |  | 1    |
| 1,3-Butadiene             | 3                | 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                   | ND               | 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 #                  | 1088960603<br>05 |       |  |  | EQL  |
| DCL #                     | 05-19324         | 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                   | ND               | 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  | 89 | 104 |  |  |
| % Rec 1,4-Difluorobenzene | 79 | 104 |  |  |
| % Rec Chlorobenzene-d5    | 90 | 97  |  |  |

Surrogate Recovery

|                          |    |    |  |  |
|--------------------------|----|----|--|--|
| % Rec Bromofluorobenzene | 80 | 86 |  |  |
|--------------------------|----|----|--|--|

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

Unknown Compounds Tentative Identification

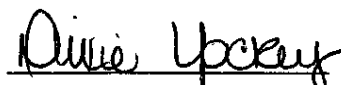
PPB

|                 |    |  |  |  |
|-----------------|----|--|--|--|
| Ethanol*        | 12 |  |  |  |
| Butanol Isomer* | 16 |  |  |  |
|                 |    |  |  |  |
|                 |    |  |  |  |

\* 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

