DATA CHEM LABORATORIES
A Sorenson Company

# FORM A (TYPE I)
## SINGLE METHOD ANALYSES

## SAMPLE ANALYSIS DATA SHEET



S074F01M

Date Printed.....: 18-MAY-07 09:06

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 0055729
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 0055729

Date Received.....: 14-MAY-07 00:00

Client Sample Name: **EPA-32-SS|108732**
DCL Sample Name...: **07E02532**
DCL Report Group..: **07E-0388-01**

Matrix.....: AIR
Date Sampled.....: 10-MAY-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G074J011
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Propene | 15-MAY-07 20:28 | 0.180 | 0.65 | ppb v/v | | 1 | 0.5 |
| Propene | 15-MAY-07 20:28 | 0.31 | 1.1 | µg/m³ | | 1 | 0.86 |
| Dichlorodifluoromethane | 15-MAY-07 20:28 | 0.0669 | 0.56 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 15-MAY-07 20:28 | 0.33 | 2.8 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 15-MAY-07 20:28 | 0.249 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 15-MAY-07 20:28 | 0.51 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 15-MAY-07 20:28 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 15-MAY-07 20:28 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 15-MAY-07 20:28 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 15-MAY-07 20:28 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 15-MAY-07 20:28 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 15-MAY-07 20:28 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 15-MAY-07 20:28 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 15-MAY-07 20:28 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 15-MAY-07 20:28 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 15-MAY-07 20:28 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 15-MAY-07 20:28 | 0.0921 | 0.29 | ppb v/v | J | 1 | 0.5 |
| Freon 11 | 15-MAY-07 20:28 | 0.52 | 1.6 | µg/m³ | J | 1 | 2.8 |
| cis-1,2-Dichloroethene | 15-MAY-07 20:28 | 0.102 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 15-MAY-07 20:28 | 0.40 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 15-MAY-07 20:28 | 0.111 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 15-MAY-07 20:28 | 0.35 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 15-MAY-07 20:28 | 0.0950 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 15-MAY-07 20:28 | 0.73 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 15-MAY-07 20:28 | 0.113 | 4.6 | ppb v/v | | 1 | 0.5 |
| Acetone | 15-MAY-07 20:28 | 0.27 | 11. | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 15-MAY-07 20:28 | 0.168 | ND | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 15-MAY-07 20:28 | 0.58 | ND | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 15-MAY-07 20:28 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 15-MAY-07 20:28 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 15-MAY-07 20:28 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 15-MAY-07 20:28 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 15-MAY-07 20:28 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 15-MAY-07 20:28 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 15-MAY-07 20:28 | 0.133 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 15-MAY-07 20:28 | 0.47 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 15-MAY-07 20:28 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 15-MAY-07 20:28 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 15-MAY-07 20:28 | 0.182 | 0.87 | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 15-MAY-07 20:28 | 0.54 | 2.6 | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 15-MAY-07 20:28 | 0.273 | ND | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S074F01M

Date Printed.....: 18-MAY-07 09:06
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E02532**
DCL Report Group..: **07E-0388-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 15-MAY-07 20:28 | 0.98 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 15-MAY-07 20:28 | 0.121 | 1.2 | ppb v/v | | 1 | 0.5 |
| Hexane | 15-MAY-07 20:28 | 0.43 | 4.2 | µg/m³ | | 1 | 1.8 |
| Chloroform | 15-MAY-07 20:28 | 0.115 | 0.45 | ppb v/v | J | 1 | 0.5 |
| Chloroform | 15-MAY-07 20:28 | 0.56 | 2.2 | µg/m³ | J | 1 | 2.4 |
| 1,1,1-Trichloroethane | 15-MAY-07 20:28 | 0.0725 | 0.27 | ppb v/v | J | 1 | 0.5 |
| 1,1,1-Trichloroethane | 15-MAY-07 20:28 | 0.40 | 1.5 | µg/m³ | J | 1 | 2.7 |
| Carbon Tetrachloride | 15-MAY-07 20:28 | 0.0657 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 15-MAY-07 20:28 | 0.41 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 15-MAY-07 20:28 | 0.102 | 0.36 | ppb v/v | J | 1 | 0.5 |
| Benzene | 15-MAY-07 20:28 | 0.33 | 1.2 | µg/m³ | J | 1 | 1.6 |
| Tetrahydrofuran | 15-MAY-07 20:28 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 15-MAY-07 20:28 | 0.67 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 15-MAY-07 20:28 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 15-MAY-07 20:28 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 15-MAY-07 20:28 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 15-MAY-07 20:28 | 0.41 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 15-MAY-07 20:28 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 15-MAY-07 20:28 | 0.64 | ND | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 15-MAY-07 20:28 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 15-MAY-07 20:28 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 15-MAY-07 20:28 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 15-MAY-07 20:28 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 15-MAY-07 20:28 | 0.101 | 0.93 | ppb v/v | | 1 | 0.5 |
| Heptane | 15-MAY-07 20:28 | 0.41 | 3.8 | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 15-MAY-07 20:28 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 15-MAY-07 20:28 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 15-MAY-07 20:28 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 15-MAY-07 20:28 | 0.48 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 15-MAY-07 20:28 | 0.115 | 1.3 | ppb v/v | | 1 | 0.5 |
| Toluene | 15-MAY-07 20:28 | 0.43 | 4.8 | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 15-MAY-07 20:28 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 15-MAY-07 20:28 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 15-MAY-07 20:28 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 15-MAY-07 20:28 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 15-MAY-07 20:28 | 0.0847 | 0.57 | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 15-MAY-07 20:28 | 0.57 | 3.8 | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 15-MAY-07 20:28 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 15-MAY-07 20:28 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 15-MAY-07 20:28 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 15-MAY-07 20:28 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 15-MAY-07 20:28 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 15-MAY-07 20:28 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 15-MAY-07 20:28 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 15-MAY-07 20:28 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 15-MAY-07 20:28 | 0.150 | 0.56 | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 15-MAY-07 20:28 | 0.65 | 2.4 | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 15-MAY-07 20:28 | 0.213 | 0.80 | ppb v/v | J | 1 | 1.0 |
| m,p-Xylene | 15-MAY-07 20:28 | 0.92 | 3.5 | µg/m³ | J | 1 | 4.3 |
| o-Xylene | 15-MAY-07 20:28 | 0.113 | 0.33 | ppb v/v | J | 1 | 0.5 |
| o-Xylene | 15-MAY-07 20:28 | 0.49 | 1.4 | µg/m³ | J | 1 | 2.2 |
| Styrene | 15-MAY-07 20:28 | 0.0748 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 15-MAY-07 20:28 | 0.32 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 15-MAY-07 20:28 | 0.0884 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 15-MAY-07 20:28 | 0.90 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 15-MAY-07 20:28 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 15-MAY-07 20:28 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 15-MAY-07 20:28 | 0.136 | ND | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
05180709064170
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S074F01M

Date Printed.....: 18-MAY-07 09:06
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E02532**
DCL Report Group..: **07E-0388-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Benzyl Chloride | 15-MAY-07 20:28 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 15-MAY-07 20:28 | 0.0983 | ND | ppb v/v | | 1 | 0.5 |
| 4-Ethyl toluene | 15-MAY-07 20:28 | 0.48 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 15-MAY-07 20:28 | 0.112 | 0.12 | ppb v/v | J | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 15-MAY-07 20:28 | 0.55 | 0.60 | µg/m³ | J | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 15-MAY-07 20:28 | 0.117 | 0.51 | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 15-MAY-07 20:28 | 0.58 | 2.5 | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 15-MAY-07 20:28 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 15-MAY-07 20:28 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 15-MAY-07 20:28 | 0.0987 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 15-MAY-07 20:28 | 0.59 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 15-MAY-07 20:28 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 15-MAY-07 20:28 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 15-MAY-07 20:28 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 15-MAY-07 20:28 | 0.85 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 15-MAY-07 20:28 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 15-MAY-07 20:28 | 1.3 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Isobutane(4.52) | 15-MAY-07 20:28 | 4.3 | ppb v/v | J | 1 |
| Ethanol(5.27) | 15-MAY-07 20:28 | 4.8 | ppb v/v | J | 1 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
05180709064170
Page 15

S074F01N

Date Printed.....: 18-MAY-07 09:06

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 0055729
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 0055729

Date Received.....: 14-MAY-07 00:00

Client Sample Name: **EPA-33-SS|108010**
DCL Sample Name...: **07E02533**
DCL Report Group..: **07E-0388-01**

Matrix.....: AIR
Date Sampled.....: 10-MAY-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G074J011
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Propene | 15-MAY-07 21:53 | 0.180 | ND | ppb v/v | | 1 | 0.5 |
| Propene | 15-MAY-07 21:53 | 0.31 | ND | µg/m³ | | 1 | 0.86 |
| Dichlorodifluoromethane | 15-MAY-07 21:53 | 0.0669 | 0.53 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 15-MAY-07 21:53 | 0.33 | 2.6 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 15-MAY-07 21:53 | 0.249 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 15-MAY-07 21:53 | 0.51 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 15-MAY-07 21:53 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 15-MAY-07 21:53 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 15-MAY-07 21:53 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 15-MAY-07 21:53 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 15-MAY-07 21:53 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 15-MAY-07 21:53 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 15-MAY-07 21:53 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 15-MAY-07 21:53 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 15-MAY-07 21:53 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 15-MAY-07 21:53 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 15-MAY-07 21:53 | 0.0921 | 0.49 | ppb v/v | J | 1 | 0.5 |
| Freon 11 | 15-MAY-07 21:53 | 0.52 | 2.7 | µg/m³ | J | 1 | 2.8 |
| cis-1,2-Dichloroethene | 15-MAY-07 21:53 | 0.102 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 15-MAY-07 21:53 | 0.40 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 15-MAY-07 21:53 | 0.111 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 15-MAY-07 21:53 | 0.35 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 15-MAY-07 21:53 | 0.0950 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 15-MAY-07 21:53 | 0.73 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 15-MAY-07 21:53 | 0.113 | ND | ppb v/v | | 1 | 0.5 |
| Acetone | 15-MAY-07 21:53 | 0.27 | ND | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 15-MAY-07 21:53 | 0.168 | ND | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 15-MAY-07 21:53 | 0.58 | ND | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 15-MAY-07 21:53 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 15-MAY-07 21:53 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 15-MAY-07 21:53 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 15-MAY-07 21:53 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 15-MAY-07 21:53 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 15-MAY-07 21:53 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 15-MAY-07 21:53 | 0.133 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 15-MAY-07 21:53 | 0.47 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 15-MAY-07 21:53 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 15-MAY-07 21:53 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 15-MAY-07 21:53 | 0.182 | 0.39 | ppb v/v | J | 1 | 0.5 |
| 2-Butanone | 15-MAY-07 21:53 | 0.54 | 1.2 | µg/m³ | J | 1 | 1.5 |
| Ethyl Acetate | 15-MAY-07 21:53 | 0.273 | 0.38 | ppb v/v | J | 1 | 0.5 |

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S074F01N

Date Printed.....: 18-MAY-07 09:06
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E02533**
DCL Report Group..: **07E-0388-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 15-MAY-07 21:53 | 0.98 | 1.4 | µg/m³ | J | 1 | 1.8 |
| Hexane | 15-MAY-07 21:53 | 0.121 | 0.58 | ppb v/v | | 1 | 0.5 |
| Hexane | 15-MAY-07 21:53 | 0.43 | 2.0 | µg/m³ | | 1 | 1.8 |
| Chloroform | 15-MAY-07 21:53 | 0.115 | 0.26 | ppb v/v | J | 1 | 0.5 |
| Chloroform | 15-MAY-07 21:53 | 0.56 | 1.3 | µg/m³ | J | 1 | 2.4 |
| 1,1,1-Trichloroethane | 15-MAY-07 21:53 | 0.0725 | 5.7 | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 15-MAY-07 21:53 | 0.40 | 31. | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 15-MAY-07 21:53 | 0.0657 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 15-MAY-07 21:53 | 0.41 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 15-MAY-07 21:53 | 0.102 | 0.37 | ppb v/v | J | 1 | 0.5 |
| Benzene | 15-MAY-07 21:53 | 0.33 | 1.2 | µg/m³ | J | 1 | 1.6 |
| Tetrahydrofuran | 15-MAY-07 21:53 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 15-MAY-07 21:53 | 0.67 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 15-MAY-07 21:53 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 15-MAY-07 21:53 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 15-MAY-07 21:53 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 15-MAY-07 21:53 | 0.41 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 15-MAY-07 21:53 | 0.120 | 0.74 | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 15-MAY-07 21:53 | 0.64 | 4.0 | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 15-MAY-07 21:53 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 15-MAY-07 21:53 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 15-MAY-07 21:53 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 15-MAY-07 21:53 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 15-MAY-07 21:53 | 0.101 | 0.40 | ppb v/v | J | 1 | 0.5 |
| Heptane | 15-MAY-07 21:53 | 0.41 | 1.7 | µg/m³ | J | 1 | 2.0 |
| cis-1,3-Dichloropropene | 15-MAY-07 21:53 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 15-MAY-07 21:53 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 15-MAY-07 21:53 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 15-MAY-07 21:53 | 0.48 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 15-MAY-07 21:53 | 0.115 | 1.3 | ppb v/v | | 1 | 0.5 |
| Toluene | 15-MAY-07 21:53 | 0.43 | 4.8 | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 15-MAY-07 21:53 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 15-MAY-07 21:53 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 15-MAY-07 21:53 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 15-MAY-07 21:53 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 15-MAY-07 21:53 | 0.0847 | 0.48 | ppb v/v | J | 1 | 0.5 |
| Tetrachloroethene | 15-MAY-07 21:53 | 0.57 | 3.3 | µg/m³ | J | 1 | 3.4 |
| 2-Hexanone | 15-MAY-07 21:53 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 15-MAY-07 21:53 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 15-MAY-07 21:53 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 15-MAY-07 21:53 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 15-MAY-07 21:53 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 15-MAY-07 21:53 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 15-MAY-07 21:53 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 15-MAY-07 21:53 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 15-MAY-07 21:53 | 0.150 | 0.49 | ppb v/v | J | 1 | 0.5 |
| Ethylbenzene | 15-MAY-07 21:53 | 0.65 | 2.1 | µg/m³ | J | 1 | 2.2 |
| m,p-Xylene | 15-MAY-07 21:53 | 0.213 | 0.83 | ppb v/v | J | 1 | 1.0 |
| m,p-Xylene | 15-MAY-07 21:53 | 0.92 | 3.6 | µg/m³ | J | 1 | 4.3 |
| o-Xylene | 15-MAY-07 21:53 | 0.113 | 0.38 | ppb v/v | J | 1 | 0.5 |
| o-Xylene | 15-MAY-07 21:53 | 0.49 | 1.6 | µg/m³ | J | 1 | 2.2 |
| Styrene | 15-MAY-07 21:53 | 0.0748 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 15-MAY-07 21:53 | 0.32 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 15-MAY-07 21:53 | 0.0884 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 15-MAY-07 21:53 | 0.90 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 15-MAY-07 21:53 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 15-MAY-07 21:53 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 15-MAY-07 21:53 | 0.136 | ND | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S074F01N

Date Printed.....: 18-MAY-07 09:06
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E02533**
DCL Report Group..: **07E-0388-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Benzyl Chloride | 15-MAY-07 21:53 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 15-MAY-07 21:53 | 0.0983 | ND | ppb v/v | | 1 | 0.5 |
| 4-Ethyl toluene | 15-MAY-07 21:53 | 0.48 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 15-MAY-07 21:53 | 0.112 | 0.13 | ppb v/v | J | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 15-MAY-07 21:53 | 0.55 | 0.66 | µg/m³ | J | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 15-MAY-07 21:53 | 0.117 | 0.48 | ppb v/v | J | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 15-MAY-07 21:53 | 0.58 | 2.3 | µg/m³ | J | 1 | 2.5 |
| 1,3-Dichlorobenzene | 15-MAY-07 21:53 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 15-MAY-07 21:53 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 15-MAY-07 21:53 | 0.0987 | 0.17 | ppb v/v | J | 1 | 0.5 |
| 1,4-Dichlorobenzene | 15-MAY-07 21:53 | 0.59 | 1.0 | µg/m³ | J | 1 | 3.0 |
| 1,2-Dichlorobenzene | 15-MAY-07 21:53 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 15-MAY-07 21:53 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 15-MAY-07 21:53 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 15-MAY-07 21:53 | 0.85 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 15-MAY-07 21:53 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 15-MAY-07 21:53 | 1.3 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Methane, chlorodifluoro-(4.14) | 15-MAY-07 21:53 | 170 | ppb v/v | J | 1 |
| C5 hydrocarbon(4.93) | 15-MAY-07 21:53 | 3.5 | ppb v/v | J | 1 |
| Ethanol(5.28) | 15-MAY-07 21:53 | 3.3 | ppb v/v | J | 1 |
| Butane, 2-methyl-(5.69) | 15-MAY-07 21:53 | 61. | ppb v/v | J | 1 |
| Butane, 2,2-dimethyl-(6.82) | 15-MAY-07 21:53 | 23. | ppb v/v | J | 1 |
| BUTANE, 2,3-DIMETHYL-(7.47) | 15-MAY-07 21:53 | 5.0 | ppb v/v | J | 1 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S074F01P

Date Printed.....: 18-MAY-07 09:06

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 0055729
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 0055729

Date Received.....: 14-MAY-07 00:00

Client Sample Name: **EPA-34-SS|108711**
DCL Sample Name...: **07E02534**
DCL Report Group..: **07E-0388-01**

Matrix.....: AIR
Date Sampled.....: 10-MAY-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G074J011
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Propene | 15-MAY-07 23:17 | 0.180 | 0.59 | ppb v/v | | 1 | 0.5 |
| Propene | 15-MAY-07 23:17 | 0.31 | 1.0 | µg/m³ | | 1 | 0.86 |
| Dichlorodifluoromethane | 15-MAY-07 23:17 | 0.0669 | 0.63 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 15-MAY-07 23:17 | 0.33 | 3.1 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 15-MAY-07 23:17 | 0.249 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 15-MAY-07 23:17 | 0.51 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 15-MAY-07 23:17 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 15-MAY-07 23:17 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 15-MAY-07 23:17 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 15-MAY-07 23:17 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 15-MAY-07 23:17 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 15-MAY-07 23:17 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 15-MAY-07 23:17 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 15-MAY-07 23:17 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 15-MAY-07 23:17 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 15-MAY-07 23:17 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 15-MAY-07 23:17 | 0.0921 | 0.31 | ppb v/v | J | 1 | 0.5 |
| Freon 11 | 15-MAY-07 23:17 | 0.52 | 1.8 | µg/m³ | J | 1 | 2.8 |
| cis-1,2-Dichloroethene | 15-MAY-07 23:17 | 0.102 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 15-MAY-07 23:17 | 0.40 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 15-MAY-07 23:17 | 0.111 | 0.28 | ppb v/v | J | 1 | 0.5 |
| Carbon Disulfide | 15-MAY-07 23:17 | 0.35 | 0.86 | µg/m³ | J | 1 | 1.6 |
| Freon 113 | 15-MAY-07 23:17 | 0.0950 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 15-MAY-07 23:17 | 0.73 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 15-MAY-07 23:17 | 0.113 | 4.9 | ppb v/v | | 1 | 0.5 |
| Acetone | 15-MAY-07 23:17 | 0.27 | 12. | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 15-MAY-07 23:17 | 0.168 | ND | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 15-MAY-07 23:17 | 0.58 | ND | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 15-MAY-07 23:17 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 15-MAY-07 23:17 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 15-MAY-07 23:17 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 15-MAY-07 23:17 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 15-MAY-07 23:17 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 15-MAY-07 23:17 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 15-MAY-07 23:17 | 0.133 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 15-MAY-07 23:17 | 0.47 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 15-MAY-07 23:17 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 15-MAY-07 23:17 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 15-MAY-07 23:17 | 0.182 | 1.8 | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 15-MAY-07 23:17 | 0.54 | 5.4 | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 15-MAY-07 23:17 | 0.273 | ND | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S074F01P

Date Printed.....: 18-MAY-07 09:06
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E02534**
DCL Report Group..: **07E-0388-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 15-MAY-07 23:17 | 0.98 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 15-MAY-07 23:17 | 0.121 | 3.3 | ppb v/v | | 1 | 0.5 |
| Hexane | 15-MAY-07 23:17 | 0.43 | 12. | µg/m³ | | 1 | 1.8 |
| Chloroform | 15-MAY-07 23:17 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 15-MAY-07 23:17 | 0.56 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 15-MAY-07 23:17 | 0.0725 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 15-MAY-07 23:17 | 0.40 | ND | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 15-MAY-07 23:17 | 0.0657 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 15-MAY-07 23:17 | 0.41 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 15-MAY-07 23:17 | 0.102 | 1.2 | ppb v/v | | 1 | 0.5 |
| Benzene | 15-MAY-07 23:17 | 0.33 | 3.7 | µg/m³ | | 1 | 1.6 |
| Tetrahydrofuran | 15-MAY-07 23:17 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 15-MAY-07 23:17 | 0.67 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 15-MAY-07 23:17 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 15-MAY-07 23:17 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 15-MAY-07 23:17 | 0.120 | 1.7 | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 15-MAY-07 23:17 | 0.41 | 6.0 | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 15-MAY-07 23:17 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 15-MAY-07 23:17 | 0.64 | ND | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 15-MAY-07 23:17 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 15-MAY-07 23:17 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 15-MAY-07 23:17 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 15-MAY-07 23:17 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 15-MAY-07 23:17 | 0.101 | 2.8 | ppb v/v | | 1 | 0.5 |
| Heptane | 15-MAY-07 23:17 | 0.41 | 11. | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 15-MAY-07 23:17 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 15-MAY-07 23:17 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 15-MAY-07 23:17 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 15-MAY-07 23:17 | 0.48 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 15-MAY-07 23:17 | 0.115 | 4.1 | ppb v/v | | 1 | 0.5 |
| Toluene | 15-MAY-07 23:17 | 0.43 | 15. | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 15-MAY-07 23:17 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 15-MAY-07 23:17 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 15-MAY-07 23:17 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 15-MAY-07 23:17 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 15-MAY-07 23:17 | 0.0847 | 0.18 | ppb v/v | J | 1 | 0.5 |
| Tetrachloroethene | 15-MAY-07 23:17 | 0.57 | 1.2 | µg/m³ | J | 1 | 3.4 |
| 2-Hexanone | 15-MAY-07 23:17 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 15-MAY-07 23:17 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 15-MAY-07 23:17 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 15-MAY-07 23:17 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 15-MAY-07 23:17 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 15-MAY-07 23:17 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 15-MAY-07 23:17 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 15-MAY-07 23:17 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 15-MAY-07 23:17 | 0.150 | 2.0 | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 15-MAY-07 23:17 | 0.65 | 8.9 | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 15-MAY-07 23:17 | 0.213 | 2.9 | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 15-MAY-07 23:17 | 0.92 | 13. | µg/m³ | | 1 | 4.3 |
| o-Xylene | 15-MAY-07 23:17 | 0.113 | 1.3 | ppb v/v | | 1 | 0.5 |
| o-Xylene | 15-MAY-07 23:17 | 0.49 | 5.8 | µg/m³ | | 1 | 2.2 |
| Styrene | 15-MAY-07 23:17 | 0.0748 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 15-MAY-07 23:17 | 0.32 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 15-MAY-07 23:17 | 0.0884 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 15-MAY-07 23:17 | 0.90 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 15-MAY-07 23:17 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 15-MAY-07 23:17 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 15-MAY-07 23:17 | 0.136 | ND | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S074F01P

Date Printed.....: 18-MAY-07 09:06
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E02534**
DCL Report Group..: **07E-0388-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Benzyl Chloride | 15-MAY-07 23:17 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 15-MAY-07 23:17 | 0.0983 | 0.38 | ppb v/v | J | 1 | 0.5 |
| 4-Ethyl toluene | 15-MAY-07 23:17 | 0.48 | 1.9 | µg/m³ | J | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 15-MAY-07 23:17 | 0.112 | 0.51 | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 15-MAY-07 23:17 | 0.55 | 2.5 | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 15-MAY-07 23:17 | 0.117 | 2.0 | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 15-MAY-07 23:17 | 0.58 | 9.9 | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 15-MAY-07 23:17 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 15-MAY-07 23:17 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 15-MAY-07 23:17 | 0.0987 | 0.12 | ppb v/v | J | 1 | 0.5 |
| 1,4-Dichlorobenzene | 15-MAY-07 23:17 | 0.59 | 0.75 | µg/m³ | J | 1 | 3.0 |
| 1,2-Dichlorobenzene | 15-MAY-07 23:17 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 15-MAY-07 23:17 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 15-MAY-07 23:17 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 15-MAY-07 23:17 | 0.85 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 15-MAY-07 23:17 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 15-MAY-07 23:17 | 1.3 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Isobutane(4.53) | 15-MAY-07 23:17 | 7.7 | ppb v/v | J | 1 |
| Butane(4.79) | 15-MAY-07 23:17 | 4.2 | ppb v/v | J | 1 |
| Ethanol(5.27) | 15-MAY-07 23:17 | 2.0 | ppb v/v | J | 1 |
| Pentane(6.11) | 15-MAY-07 23:17 | 2.3 | ppb v/v | J | 1 |
| Pentane, 2-methyl-(7.54) | 15-MAY-07 23:17 | 3.1 | ppb v/v | J | 1 |
| CYCLOPENTANE, METHYL-(8.98) | 15-MAY-07 23:17 | 2.6 | ppb v/v | J | 1 |
| CYCLOHEXANE, METHYL-(11.35) | 15-MAY-07 23:17 | 3.9 | ppb v/v | J | 1 |

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**BEHR VOC PLUME SITE**
**DAYTON, OHIO**
**DATA VALIDATION REPORT**

**Date:** July 16, 2007
**Laboratory:** DataChem Laboratories, Inc. (DataChem), Salt Lake City, Utah
**Laboratory SDG #/Set ID #:** BEHR/07E-0448-01
**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)
**Weston Analytical Work Order #/TDD #**: 20405.016.003.0121.00/S05-0612-007

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation of air samples collected for the Behr VOC Plume Site that were analyzed for Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) method TO-15. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999.

**VOCs in Air by U.S. EPA Method TO15**

## 1. Samples

The following table summarizes the sample for which this data validation is being conducted.

| Samples | Lab ID | Matrix | Date Collected | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|
| EPA-35-SS | 07E02852 | Air | 05/24/07 | NA | 06/05/07 |

## 2. Holding Times

The sample was analyzed within the required holding time limit of 30 days from sample collection in accordance with method TO-15.

## 3. Instrument Performance Check

The instrument performance check using bromofluorobenzene (BFB) standard met the ion abundance criteria specified in method TO-15.

## 4. Initial Calibration

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30 percent. The average relative response factors were all greater than 0.05.

## 5. Continuing Calibration

The percent differences (%D) in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent except for vinyl acetate; 1,2,4-trichlorobenzene; and hexachlorobutadiene. The quantitation limits for these three compounds in the sample were flagged "UJ" as estimated for this discrepancy.

## 6. Blanks

The method blank associated with the sample was free of target compound contamination.

## 7. Surrogates

The 4-bromofluorobenzene surrogate spike recoveries in the samples were within the quality control (QC) limits.

## 8. Laboratory Control Sample (LCS)

The LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits of 70 to 130 percent recovery except for the following compounds: ethyl acetate and tetrahydrofuran. Because these compounds were detected high in the standards and not detected in the samples, no qualifications were required.

## 9. Internal Standard Results

The internal standard area counts in the samples were within -50 percent to +100 percent of the area counts of the associated continuing calibration standard. The retention time of the internal standards did not vary more than ±30 seconds from the retention time of the associated continuing calibration standard.

## 10. Target Compound Identification

A spot-check was performed of the mass spectra for detected compounds. The spot-check confirmed compound identification. DataChem appropriately flagged those results detected above the method detection limit but below the quantitation limit as "J" or estimated.

# ATTACHMENT

# DATACHEM LABORATORIES
# RESULTS SUMMARY

DATA CHEM LABORATORIES
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# FORM A (TYPE I)
# SINGLE METHOD ANALYSES

## SAMPLE ANALYSIS DATA SHEET



S074X01N

Date Printed.....: 05-JUN-07 14:58

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 0055729
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 0055729

Date Received.....: 29-MAY-07 00:00

Client Sample Name: **EPA-35-SS|108864**
DCL Sample Name...: **07E02852**
DCL Report Group..: **07E-0448-01**

Matrix.....: AIR
Date Sampled.....: 24-MAY-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G075401B
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Propene | 05-JUN-07 01:25 | 0.180 | 8.8 | ppb v/v | | 1 | 0.5 |
| Propene | 05-JUN-07 01:25 | 0.31 | 15. | µg/m³ | | 1 | 0.86 |
| Dichlorodifluoromethane | 05-JUN-07 01:25 | 0.0669 | 0.71 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 05-JUN-07 01:25 | 0.33 | 3.5 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 05-JUN-07 01:25 | 0.249 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 05-JUN-07 01:25 | 0.51 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 05-JUN-07 01:25 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 05-JUN-07 01:25 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 05-JUN-07 01:25 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 05-JUN-07 01:25 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 05-JUN-07 01:25 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 05-JUN-07 01:25 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 05-JUN-07 01:25 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 05-JUN-07 01:25 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 05-JUN-07 01:25 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 05-JUN-07 01:25 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 05-JUN-07 01:25 | 0.0921 | 0.45 | ppb v/v | J | 1 | 0.5 |
| Freon 11 | 05-JUN-07 01:25 | 0.52 | 2.5 | µg/m³ | J | 1 | 2.8 |
| cis-1,2-Dichloroethene | 05-JUN-07 01:25 | 0.102 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 05-JUN-07 01:25 | 0.40 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 05-JUN-07 01:25 | 0.111 | 0.31 | ppb v/v | J | 1 | 0.5 |
| Carbon Disulfide | 05-JUN-07 01:25 | 0.35 | 0.97 | µg/m³ | J | 1 | 1.6 |
| Freon 113 | 05-JUN-07 01:25 | 0.0950 | 0.19 | ppb v/v | J | 1 | 0.5 |
| Freon 113 | 05-JUN-07 01:25 | 0.73 | 1.5 | µg/m³ | J | 1 | 3.8 |
| Acetone | 05-JUN-07 01:25 | 1.1 | 48. | ppb v/v | | 10 | 5.0 |
| Acetone | 05-JUN-07 01:25 | 2.7 | 110 | µg/m³ | | 10 | 12. |
| Methylene Chloride | 05-JUN-07 01:25 | 0.168 | ND | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 05-JUN-07 01:25 | 0.58 | ND | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 05-JUN-07 01:25 | 0.118 | 0.37 | ppb v/v | J | 1 | 0.5 |
| trans-1,2-Dichloroethene | 05-JUN-07 01:25 | 0.47 | 1.5 | µg/m³ | J | 1 | 2.0 |
| 1,1-Dichloroethane | 05-JUN-07 01:25 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 05-JUN-07 01:25 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 05-JUN-07 01:25 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 05-JUN-07 01:25 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 05-JUN-07 01:25 | 0.133 | ND UJ | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 05-JUN-07 01:25 | 0.47 | ND UJ | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 05-JUN-07 01:25 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 05-JUN-07 01:25 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 05-JUN-07 01:25 | 0.182 | 3.1 | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 05-JUN-07 01:25 | 0.54 | 9.2 | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 05-JUN-07 01:25 | 0.273 | ND | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S074X01N

Date Printed.....: 05-JUN-07 14:58
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E02852**
DCL Report Group..: **07E-0448-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 05-JUN-07 01:25 | 0.98 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 05-JUN-07 01:25 | 0.121 | 4.5 | ppb v/v | | 1 | 0.5 |
| Hexane | 05-JUN-07 01:25 | 0.43 | 16. | µg/m³ | | 1 | 1.8 |
| Chloroform | 05-JUN-07 01:25 | 0.115 | 0.15 | ppb v/v | J | 1 | 0.5 |
| Chloroform | 05-JUN-07 01:25 | 0.56 | 0.74 | µg/m³ | J | 1 | 2.4 |
| 1,1,1-Trichloroethane | 05-JUN-07 01:25 | 0.0725 | 17. | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 05-JUN-07 01:25 | 0.40 | 94. | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 05-JUN-07 01:25 | 0.0657 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 05-JUN-07 01:25 | 0.41 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 05-JUN-07 01:25 | 0.102 | 1.1 | ppb v/v | | 1 | 0.5 |
| Benzene | 05-JUN-07 01:25 | 0.33 | 3.4 | µg/m³ | | 1 | 1.6 |
| Tetrahydrofuran | 05-JUN-07 01:25 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 05-JUN-07 01:25 | 0.67 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 05-JUN-07 01:25 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 05-JUN-07 01:25 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 05-JUN-07 01:25 | 0.120 | 1.4 | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 05-JUN-07 01:25 | 0.41 | 4.9 | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 05-JUN-07 01:25 | 1.2 | 390 | ppb v/v | E | 10 | 5.0 |
| Trichloroethene | 05-JUN-07 01:25 | 6.4 | 2100 | µg/m³ | E | 10 | 27. |
| 1,2-Dichloropropane | 05-JUN-07 01:25 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 05-JUN-07 01:25 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 05-JUN-07 01:25 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 05-JUN-07 01:25 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 05-JUN-07 01:25 | 0.101 | 2.8 | ppb v/v | | 1 | 0.5 |
| Heptane | 05-JUN-07 01:25 | 0.41 | 11. | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 05-JUN-07 01:25 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 05-JUN-07 01:25 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 05-JUN-07 01:25 | 0.116 | 1.1 | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 05-JUN-07 01:25 | 0.48 | 4.7 | µg/m³ | | 1 | 2.0 |
| Toluene | 05-JUN-07 01:25 | 0.115 | 3.7 | ppb v/v | | 1 | 0.5 |
| Toluene | 05-JUN-07 01:25 | 0.43 | 14. | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 05-JUN-07 01:25 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 05-JUN-07 01:25 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 05-JUN-07 01:25 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 05-JUN-07 01:25 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 05-JUN-07 01:25 | 0.0847 | 2.3 | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 05-JUN-07 01:25 | 0.57 | 15. | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 05-JUN-07 01:25 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 05-JUN-07 01:25 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 05-JUN-07 01:25 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 05-JUN-07 01:25 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 05-JUN-07 01:25 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 05-JUN-07 01:25 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 05-JUN-07 01:25 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 05-JUN-07 01:25 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 05-JUN-07 01:25 | 0.150 | 1.4 | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 05-JUN-07 01:25 | 0.65 | 6.2 | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 05-JUN-07 01:25 | 0.213 | 3.0 | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 05-JUN-07 01:25 | 0.92 | 13. | µg/m³ | | 1 | 4.3 |
| o-Xylene | 05-JUN-07 01:25 | 0.113 | 1.3 | ppb v/v | | 1 | 0.5 |
| o-Xylene | 05-JUN-07 01:25 | 0.49 | 5.5 | µg/m³ | | 1 | 2.2 |
| Styrene | 05-JUN-07 01:25 | 0.0748 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 05-JUN-07 01:25 | 0.32 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 05-JUN-07 01:25 | 0.0884 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 05-JUN-07 01:25 | 0.90 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 05-JUN-07 01:25 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 05-JUN-07 01:25 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 05-JUN-07 01:25 | 0.136 | ND | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S074X01N

Date Printed.....: 05-JUN-07 14:58
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E02852**
DCL Report Group..: **07E-0448-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Benzyl Chloride | 05-JUN-07 01:25 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 05-JUN-07 01:25 | 0.0983 | 0.25 | ppb v/v | J | 1 | 0.5 |
| 4-Ethyl toluene | 05-JUN-07 01:25 | 0.48 | 1.2 | µg/m³ | J | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 05-JUN-07 01:25 | 0.112 | 0.32 | ppb v/v | J | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 05-JUN-07 01:25 | 0.55 | 1.6 | µg/m³ | J | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 05-JUN-07 01:25 | 0.117 | 1.3 | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 05-JUN-07 01:25 | 0.58 | 6.2 | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 05-JUN-07 01:25 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 05-JUN-07 01:25 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 05-JUN-07 01:25 | 0.0987 | 0.21 | ppb v/v | J | 1 | 0.5 |
| 1,4-Dichlorobenzene | 05-JUN-07 01:25 | 0.59 | 1.3 | µg/m³ | J | 1 | 3.0 |
| 1,2-Dichlorobenzene | 05-JUN-07 01:25 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 05-JUN-07 01:25 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 05-JUN-07 01:25 | 0.115 | ND UJ | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 05-JUN-07 01:25 | 0.85 | ND UJ | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 05-JUN-07 01:25 | 0.119 | ND UJ | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 05-JUN-07 01:25 | 1.3 | ND UJ | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Isobutane(4.55) | 05-JUN-07 01:25 | 4.5 | ppb v/v | J | 1 |
| Butane(4.81) | 05-JUN-07 01:25 | 4.9 | ppb v/v | J | 1 |
| Pentane(6.14) | 05-JUN-07 01:25 | 3.7 | ppb v/v | J | 1 |
| Pentane, 2-methyl-(7.57) | 05-JUN-07 01:25 | 3.2 | ppb v/v | J | 1 |
| CYCLOPENTANE, METHYL-(9.01) | 05-JUN-07 01:25 | 2.8 | ppb v/v | J | 1 |
| CYCLOHEXANE, METHYL-(11.38) | 05-JUN-07 01:25 | 3.5 | ppb v/v | J | 1 |

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**BEHR VOC PLUME SITE**
**DAYTON, OHIO**
**DATA VALIDATION REPORT**

**Date:** August 7, 2007
**Laboratory:** DataChem Laboratories, Inc. (DataChem), Salt Lake City, Utah
**Laboratory SDG #/Set ID #:** BEHR/07E-0483-01
**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)
**Weston Analytical Work Order #/TDD #**: 20405.016.003.0121.00/S05-0612-007

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation of air samples collected for the Behr VOC Plume Site that were analyzed for Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) method TO-15. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999.

**VOCs in Air by U.S. EPA Method TO15**

## 1. Samples

The following table summarizes the sample for which this data validation is being conducted.

| Samples | Lab ID | Matrix | Date Collected | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|
| EPA-36-SS | 07E02964 | Air | 06/05/07 | NA | 06/08/07 |

## 2. Holding Times

The sample was analyzed within the required holding time limit of 30 days from sample collection in accordance with method TO-15.

## 3. Instrument Performance Check

The instrument performance check using bromofluorobenzene (BFB) standard met the ion abundance criteria specified in method TO-15.

## 4. Initial Calibration

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30 percent. The average relative response factors were all greater than 0.05.

## 5. Continuing Calibration

The percent differences (%D) in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent except for acetone; vinyl acetate; 2-butanone; ethyl acetate; tetrahydrofuran; and 1,2,4-trichlorobenzene. The quantitation limits for these compounds in the sample were flagged "UJ" and detected results were flagged "J" as estimated for this discrepancy.

## 6. Blanks

The method blank associated with the sample was free of target compound contamination except for acetone which was detected at 0.41 part per billion (ppb). Because acetone was detected in the sample at greater than 10 times the blank concentration, no qualification was applied.

## 7. Surrogates

The 4-bromofluorobenzene surrogate spike recoveries in the samples were within the quality control (QC) limits.

## 8. Laboratory Control Sample (LCS)

The LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits of 70 to 130 percent recovery except for the following compounds: acetone; 2-butanone; ethyl acetate; tetrahydrofuran; and vinyl acetate. Because these compounds were detected high in the standards, detected results only were qualified "J" as estimated.

In addition, the relative percent difference between the LCS and LCS duplicate samples was greater than the QC limit of 25 for propene and dichlorodifluoromethane. The results for these two compounds were flagged "J" as estimated.

## 9. Internal Standard Results

The internal standard area counts in the samples were within -50 percent to +100 percent of the area counts of the associated continuing calibration standard. The retention time of

the internal standards did not vary more than ±30 seconds from the retention time of the associated continuing calibration standard.

## 10. Target Compound Identification

A spot-check was performed of the mass spectra for detected compounds. The spot-check confirmed compound identification. DataChem appropriately flagged those results detected above the method detection limit but below the quantitation limit as "J" or estimated.

# ATTACHMENT

# DATACHEM LABORATORIES
# RESULTS SUMMARY

DATA CHEM LABORATORIES
A Sorenson Company

# FORM A (TYPE I)
# SINGLE METHOD ANALYSES

## SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
06140711265224
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S075701B

Date Printed.....: 14-JUN-07 11:26

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 0055729
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 0055729

Date Received.....: 07-JUN-07 00:00

Client Sample Name: **EPA-36-SS|108917**
DCL Sample Name...: **07E02964**
DCL Report Group..: **07E-0483-01**

Matrix.....: AIR
Date Sampled.....: 05-JUN-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G075D00M
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Propene | 08-JUN-07 09:25 | 0.180 | 4.1 J | ppb v/v | | 1 | 0.5 |
| Propene | 08-JUN-07 09:25 | 0.31 | 7.1 J | µg/m³ | | 1 | 0.86 |
| Dichlorodifluoromethane | 08-JUN-07 09:25 | 0.0669 | 0.84 J | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 08-JUN-07 09:25 | 0.33 | 4.2 J | µg/m³ | | 1 | 2.5 |
| Chloromethane | 08-JUN-07 09:25 | 0.249 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 08-JUN-07 09:25 | 0.51 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 08-JUN-07 09:25 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 08-JUN-07 09:25 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 08-JUN-07 09:25 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 08-JUN-07 09:25 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 08-JUN-07 09:25 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 08-JUN-07 09:25 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 08-JUN-07 09:25 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 08-JUN-07 09:25 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 08-JUN-07 09:25 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 08-JUN-07 09:25 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 08-JUN-07 09:25 | 0.0921 | 0.45 | ppb v/v | J | 1 | 0.5 |
| Freon 11 | 08-JUN-07 09:25 | 0.52 | 2.5 | µg/m³ | J | 1 | 2.8 |
| cis-1,2-Dichloroethene | 08-JUN-07 09:25 | 0.102 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 08-JUN-07 09:25 | 0.40 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 08-JUN-07 09:25 | 0.111 | 0.32 | ppb v/v | J | 1 | 0.5 |
| Carbon Disulfide | 08-JUN-07 09:25 | 0.35 | 0.98 | µg/m³ | J | 1 | 1.6 |
| Freon 113 | 08-JUN-07 09:25 | 0.0950 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 08-JUN-07 09:25 | 0.73 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 08-JUN-07 09:25 | 0.113 | 12. J | ppb v/v | B | 1 | 0.5 |
| Acetone | 08-JUN-07 09:25 | 0.27 | 29. J | µg/m³ | B | 1 | 1.2 |
| Methylene Chloride | 08-JUN-07 09:25 | 0.168 | ND | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 08-JUN-07 09:25 | 0.58 | ND | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 08-JUN-07 09:25 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 08-JUN-07 09:25 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 08-JUN-07 09:25 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 08-JUN-07 09:25 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 08-JUN-07 09:25 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 08-JUN-07 09:25 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 08-JUN-07 09:25 | 0.133 | ND UJ | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 08-JUN-07 09:25 | 0.47 | ND UJ | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 08-JUN-07 09:25 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 08-JUN-07 09:25 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 08-JUN-07 09:25 | 0.182 | 1.5 J | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 08-JUN-07 09:25 | 0.54 | 4.5 J | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 08-JUN-07 09:25 | 0.273 | ND UJ | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S075701B

Date Printed.....: 14-JUN-07 11:26
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E02964**
DCL Report Group..: **07E-0483-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 08-JUN-07 09:25 | 0.98 | ND UJ | µg/m³ | | 1 | 1.8 |
| Hexane | 08-JUN-07 09:25 | 0.121 | 3.9 | ppb v/v | | 1 | 0.5 |
| Hexane | 08-JUN-07 09:25 | 0.43 | 14. | µg/m³ | | 1 | 1.8 |
| Chloroform | 08-JUN-07 09:25 | 0.115 | 4.9 | ppb v/v | | 1 | 0.5 |
| Chloroform | 08-JUN-07 09:25 | 0.56 | 24. | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 08-JUN-07 09:25 | 0.0725 | 0.19 | ppb v/v | J | 1 | 0.5 |
| 1,1,1-Trichloroethane | 08-JUN-07 09:25 | 0.40 | 1.0 | µg/m³ | J | 1 | 2.7 |
| Carbon Tetrachloride | 08-JUN-07 09:25 | 0.0657 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 08-JUN-07 09:25 | 0.41 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 08-JUN-07 09:25 | 0.102 | 0.65 | ppb v/v | | 1 | 0.5 |
| Benzene | 08-JUN-07 09:25 | 0.33 | 2.1 | µg/m³ | | 1 | 1.6 |
| Tetrahydrofuran | 08-JUN-07 09:25 | 0.227 | ND UJ | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 08-JUN-07 09:25 | 0.67 | ND UJ | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 08-JUN-07 09:25 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 08-JUN-07 09:25 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 08-JUN-07 09:25 | 0.120 | 1.3 | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 08-JUN-07 09:25 | 0.41 | 4.4 | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 08-JUN-07 09:25 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 08-JUN-07 09:25 | 0.64 | ND | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 08-JUN-07 09:25 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 08-JUN-07 09:25 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 08-JUN-07 09:25 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 08-JUN-07 09:25 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 08-JUN-07 09:25 | 0.101 | 2.7 | ppb v/v | | 1 | 0.5 |
| Heptane | 08-JUN-07 09:25 | 0.41 | 11. | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 08-JUN-07 09:25 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 08-JUN-07 09:25 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 08-JUN-07 09:25 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 08-JUN-07 09:25 | 0.48 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 08-JUN-07 09:25 | 0.115 | 2.6 | ppb v/v | | 1 | 0.5 |
| Toluene | 08-JUN-07 09:25 | 0.43 | 10. | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 08-JUN-07 09:25 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 08-JUN-07 09:25 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 08-JUN-07 09:25 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 08-JUN-07 09:25 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 08-JUN-07 09:25 | 0.0847 | 0.50 | ppb v/v | J | 1 | 0.5 |
| Tetrachloroethene | 08-JUN-07 09:25 | 0.57 | 3.4 | µg/m³ | J | 1 | 3.4 |
| 2-Hexanone | 08-JUN-07 09:25 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 08-JUN-07 09:25 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 08-JUN-07 09:25 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 08-JUN-07 09:25 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 08-JUN-07 09:25 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 08-JUN-07 09:25 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 08-JUN-07 09:25 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 08-JUN-07 09:25 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 08-JUN-07 09:25 | 0.150 | 1.4 | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 08-JUN-07 09:25 | 0.65 | 5.9 | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 08-JUN-07 09:25 | 0.213 | 2.0 | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 08-JUN-07 09:25 | 0.92 | 8.5 | µg/m³ | | 1 | 4.3 |
| o-Xylene | 08-JUN-07 09:25 | 0.113 | 0.86 | ppb v/v | | 1 | 0.5 |
| o-Xylene | 08-JUN-07 09:25 | 0.49 | 3.7 | µg/m³ | | 1 | 2.2 |
| Styrene | 08-JUN-07 09:25 | 0.0748 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 08-JUN-07 09:25 | 0.32 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 08-JUN-07 09:25 | 0.0884 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 08-JUN-07 09:25 | 0.90 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 08-JUN-07 09:25 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 08-JUN-07 09:25 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 08-JUN-07 09:25 | 0.136 | ND | ppb v/v | | 1 | 0.5 |

LD 8/7/07

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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S075701B

Date Printed.....: 14-JUN-07 11:26
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E02964**
DCL Report Group..: **07E-0483-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Benzyl Chloride | 08-JUN-07 09:25 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 08-JUN-07 09:25 | 0.0983 | 0.29 | ppb v/v | J | 1 | 0.5 |
| 4-Ethyl toluene | 08-JUN-07 09:25 | 0.48 | 1.4 | µg/m³ | J | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 08-JUN-07 09:25 | 0.112 | 0.36 | ppb v/v | J | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 08-JUN-07 09:25 | 0.55 | 1.8 | µg/m³ | J | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 08-JUN-07 09:25 | 0.117 | 1.6 | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 08-JUN-07 09:25 | 0.58 | 7.7 | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 08-JUN-07 09:25 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 08-JUN-07 09:25 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 08-JUN-07 09:25 | 0.0987 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 08-JUN-07 09:25 | 0.59 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 08-JUN-07 09:25 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 08-JUN-07 09:25 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 08-JUN-07 09:25 | 0.115 | ND UJ | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 08-JUN-07 09:25 | 0.85 | ND UJ | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 08-JUN-07 09:25 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 08-JUN-07 09:25 | 1.3 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Isobutane(4.52) | 08-JUN-07 09:25 | 3.7 | ppb v/v | J | 1 |
| Butane(4.79) | 08-JUN-07 09:25 | 6.2 | ppb v/v | J | 1 |
| Ethanol(5.27) | 08-JUN-07 09:25 | 3.3 | ppb v/v | J | 1 |
| Pentane, 2-methyl-(7.54) | 08-JUN-07 09:25 | 2.5 | ppb v/v | J | 1 |
| CYCLOHEXANE, METHYL-(11.35) | 08-JUN-07 09:25 | 3.0 | ppb v/v | J | 1 |

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8/7/07

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**BEHR VOC PLUME SITE**
**DAYTON, OHIO**
**DATA VALIDATION REPORT**

**Date:** July 16, 2007
**Laboratory:** DataChem Laboratories, Inc. (DataChem), Salt Lake City, Utah
**Laboratory SDG #/Set ID #:** BEHR/07E-0556-01
**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)
**Weston Analytical Work Order #/TDD #**: 20405.016.003.0121.00/S05-0612-007

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation of air samples collected for the Behr VOC Plume Site that were analyzed for Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) method TO-15. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999.

**VOCs in Air by U.S. EPA Method TO15**

## 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

| Samples | Lab ID | Matrix | Date Collected | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|
| EPA-37-SS | 07E03338 | Air | 06/21/07 | NA | 06/26/07 |
| EPA-38-SS | 07E03339 | Air | 06/21/07 | NA | 06/26/07 |

## 2. Holding Times

The samples were analyzed within the required holding time limit of 30 days from sample collection in accordance with method TO-15.

## 3. Instrument Performance Check

The instrument performance check using bromofluorobenzene (BFB) standard met the ion abundance criteria specified in method TO-15.

## 4. Initial Calibration

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30 percent except for chloroethane. The quantitation limits for chloroethane were flagged "UJ" as estimated for this discrepancy. The average relative response factors were all greater than 0.05.

## 5. Continuing Calibration

The percent differences in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent.

## 6. Blanks

The method blank associated with the samples was free of target compound contamination.

## 7. Surrogates

The 4-bromofluorobenzene surrogate spike recoveries in the samples were within the quality control (QC) limits.

## 8. Laboratory Control Sample (LCS)

The LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits of 70 to 130 percent recovery except for the following compound: 1,2,4-trichlorobenzene. Because this compound was detected high and was not detected in the samples, no qualifications are required.

## 9. Internal Standard Results

The internal standard area counts in the samples were within -50 percent to +100 percent of the area counts of the associated continuing calibration standard. The retention time of the internal standards did not vary more than ±30 seconds from the retention time of the associated continuing calibration standard.

## 10. Target Compound Identification

A spot-check was performed of the mass spectra for detected compounds. The spot-check confirmed compound identification. DataChem appropriately flagged those results detected above the method detection limit but below the quantitation limit as "J" or estimated.

# ATTACHMENT

## DATACHEM LABORATORIES
## RESULTS SUMMARY

DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
06290709360875
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S075S08J

Date Printed.....: 29-JUN-07 09:36

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 0055729
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 0055729

Date Received.....: 25-JUN-07 00:00

Client Sample Name: **EPA-37-SS|108805**
DCL Sample Name...: **07E03338**
DCL Report Group..: **07E-0556-01**

Matrix.....: AIR
Date Sampled.....: 21-JUN-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G075W01K
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 26-JUN-07 09:22 | 0.0669 | 32. | ppb v/v | E | 1 | 0.5 |
| Dichlorodifluoromethane | 26-JUN-07 09:22 | 0.33 | 160 | µg/m³ | E | 1 | 2.5 |
| Chloromethane | 26-JUN-07 09:22 | 0.249 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 26-JUN-07 09:22 | 0.51 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 26-JUN-07 09:22 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 26-JUN-07 09:22 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 26-JUN-07 09:22 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 26-JUN-07 09:22 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 26-JUN-07 09:22 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 26-JUN-07 09:22 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 26-JUN-07 09:22 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 26-JUN-07 09:22 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 26-JUN-07 09:22 | 0.388 | ND UJ | ppb v/v | | 1 | 0.5 |
| Chloroethane | 26-JUN-07 09:22 | 1.0 | ND UJ | µg/m³ | | 1 | 1.3 |
| Freon 11 | 26-JUN-07 09:22 | 0.0921 | 11. | ppb v/v | | 1 | 0.5 |
| Freon 11 | 26-JUN-07 09:22 | 0.52 | 59. | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 26-JUN-07 09:22 | 0.102 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 26-JUN-07 09:22 | 0.40 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 26-JUN-07 09:22 | 0.111 | 0.30 | ppb v/v | J | 1 | 0.5 |
| Carbon Disulfide | 26-JUN-07 09:22 | 0.35 | 0.93 | µg/m³ | J | 1 | 1.6 |
| Freon 113 | 26-JUN-07 09:22 | 0.0950 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 26-JUN-07 09:22 | 0.73 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 26-JUN-07 09:22 | 0.113 | 18. | ppb v/v | | 1 | 0.5 |
| Acetone | 26-JUN-07 09:22 | 0.27 | 42. | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 26-JUN-07 09:22 | 0.168 | 0.35 | ppb v/v | J | 1 | 0.5 |
| Methylene Chloride | 26-JUN-07 09:22 | 0.58 | 1.2 | µg/m³ | J | 1 | 1.7 |
| trans-1,2-Dichloroethene | 26-JUN-07 09:22 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 26-JUN-07 09:22 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 26-JUN-07 09:22 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 26-JUN-07 09:22 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 26-JUN-07 09:22 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 26-JUN-07 09:22 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 26-JUN-07 09:22 | 0.133 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 26-JUN-07 09:22 | 0.47 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 26-JUN-07 09:22 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 26-JUN-07 09:22 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 26-JUN-07 09:22 | 0.182 | 5.2 | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 26-JUN-07 09:22 | 0.54 | 15. | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 26-JUN-07 09:22 | 0.273 | 1.4 | ppb v/v | | 1 | 0.5 |
| Ethyl Acetate | 26-JUN-07 09:22 | 0.98 | 4.9 | µg/m³ | | 1 | 1.8 |
| Hexane | 26-JUN-07 09:22 | 0.121 | 0.95 | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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06290709360875
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S075S08J

Date Printed.....: 29-JUN-07 09:36
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E03338**
DCL Report Group..: **07E-0556-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 26-JUN-07 09:22 | 0.43 | 3.3 | µg/m³ | | 1 | 1.8 |
| Chloroform | 26-JUN-07 09:22 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 26-JUN-07 09:22 | 0.56 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 26-JUN-07 09:22 | 0.0725 | 0.87 | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 26-JUN-07 09:22 | 0.40 | 4.7 | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 26-JUN-07 09:22 | 0.0657 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 26-JUN-07 09:22 | 0.41 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 26-JUN-07 09:22 | 0.102 | 2.5 | ppb v/v | | 1 | 0.5 |
| Benzene | 26-JUN-07 09:22 | 0.33 | 8.0 | µg/m³ | | 1 | 1.6 |
| Tetrahydrofuran | 26-JUN-07 09:22 | 0.227 | 2.6 | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 26-JUN-07 09:22 | 0.67 | 7.7 | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 26-JUN-07 09:22 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 26-JUN-07 09:22 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 26-JUN-07 09:22 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 26-JUN-07 09:22 | 0.41 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 26-JUN-07 09:22 | 0.120 | 0.77 | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 26-JUN-07 09:22 | 0.64 | 4.1 | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 26-JUN-07 09:22 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 26-JUN-07 09:22 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 26-JUN-07 09:22 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 26-JUN-07 09:22 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 26-JUN-07 09:22 | 0.101 | 0.31 | ppb v/v | J | 1 | 0.5 |
| Heptane | 26-JUN-07 09:22 | 0.41 | 1.3 | µg/m³ | J | 1 | 2.0 |
| cis-1,3-Dichloropropene | 26-JUN-07 09:22 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 26-JUN-07 09:22 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 26-JUN-07 09:22 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 26-JUN-07 09:22 | 0.48 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 26-JUN-07 09:22 | 0.115 | 1.6 | ppb v/v | | 1 | 0.5 |
| Toluene | 26-JUN-07 09:22 | 0.43 | 6.0 | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 26-JUN-07 09:22 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 26-JUN-07 09:22 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 26-JUN-07 09:22 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 26-JUN-07 09:22 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 26-JUN-07 09:22 | 0.0847 | 0.35 | ppb v/v | J | 1 | 0.5 |
| Tetrachloroethene | 26-JUN-07 09:22 | 0.57 | 2.4 | µg/m³ | J | 1 | 3.4 |
| 2-Hexanone | 26-JUN-07 09:22 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 26-JUN-07 09:22 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 26-JUN-07 09:22 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 26-JUN-07 09:22 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 26-JUN-07 09:22 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 26-JUN-07 09:22 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 26-JUN-07 09:22 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 26-JUN-07 09:22 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 26-JUN-07 09:22 | 0.150 | 1.6 | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 26-JUN-07 09:22 | 0.65 | 7.1 | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 26-JUN-07 09:22 | 0.213 | 1.6 | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 26-JUN-07 09:22 | 0.92 | 6.8 | µg/m³ | | 1 | 4.3 |
| o-Xylene | 26-JUN-07 09:22 | 0.113 | 0.54 | ppb v/v | | 1 | 0.5 |
| o-Xylene | 26-JUN-07 09:22 | 0.49 | 2.4 | µg/m³ | | 1 | 2.2 |
| Styrene | 26-JUN-07 09:22 | 0.0748 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 26-JUN-07 09:22 | 0.32 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 26-JUN-07 09:22 | 0.0884 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 26-JUN-07 09:22 | 0.90 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 26-JUN-07 09:22 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 26-JUN-07 09:22 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 26-JUN-07 09:22 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 26-JUN-07 09:22 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 26-JUN-07 09:22 | 0.0983 | 0.15 | ppb v/v | J | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S075S08J

Date Printed.....: 29-JUN-07 09:36
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E03338**
DCL Report Group..: **07E-0556-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 26-JUN-07 09:22 | 0.48 | 0.72 | µg/m³ | J | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 26-JUN-07 09:22 | 0.112 | 0.22 | ppb v/v | J | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 26-JUN-07 09:22 | 0.55 | 1.1 | µg/m³ | J | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 26-JUN-07 09:22 | 0.117 | 0.69 | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 26-JUN-07 09:22 | 0.58 | 3.4 | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 26-JUN-07 09:22 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 26-JUN-07 09:22 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 26-JUN-07 09:22 | 0.0987 | 0.14 | ppb v/v | J | 1 | 0.5 |
| 1,4-Dichlorobenzene | 26-JUN-07 09:22 | 0.59 | 0.86 | µg/m³ | J | 1 | 3.0 |
| 1,2-Dichlorobenzene | 26-JUN-07 09:22 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 26-JUN-07 09:22 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 26-JUN-07 09:22 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 26-JUN-07 09:22 | 0.85 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 26-JUN-07 09:22 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 26-JUN-07 09:22 | 1.3 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Ethane, 1,1-difluoro-(4.19) | 26-JUN-07 09:22 | 19. | ppb v/v | J | 1 |
| Dimethyl Ether(4.51) | 26-JUN-07 09:22 | 2.8 | ppb v/v | J | 1 |
| Isobutane(4.63) | 26-JUN-07 09:22 | 49. | ppb v/v | J | 1 |
| Ethanol(5.46) | 26-JUN-07 09:22 | 12. | ppb v/v | J | 1 |
| Dimethyl Sulfide(6.43) | 26-JUN-07 09:22 | 3.7 | ppb v/v | J | 1 |
| Propanoic acid, methyl ester(8.80) | 26-JUN-07 09:22 | 2.4 | ppb v/v | J | 1 |
| Butanoic acid, methyl ester(10.95) | 26-JUN-07 09:22 | 4.5 | ppb v/v | J | 1 |
| Unknown fluorocarbon(13.74) | 26-JUN-07 09:22 | 5.5 | ppb v/v | J | 1 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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06290709360875
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S075S08K

Date Printed.....: 29-JUN-07 09:36

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 0055729
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 0055729

Date Received.....: 25-JUN-07 00:00

Client Sample Name: **EPA-38-SS|108711**
DCL Sample Name...: **07E03339**
DCL Report Group..: **07E-0556-01**

Matrix.....: AIR
Date Sampled.....: 21-JUN-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G075W01K
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 26-JUN-07 10:01 | 0.0669 | 0.58 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 26-JUN-07 10:01 | 0.33 | 2.9 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 26-JUN-07 10:01 | 0.249 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 26-JUN-07 10:01 | 0.51 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 26-JUN-07 10:01 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 26-JUN-07 10:01 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 26-JUN-07 10:01 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 26-JUN-07 10:01 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 26-JUN-07 10:01 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 26-JUN-07 10:01 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 26-JUN-07 10:01 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 26-JUN-07 10:01 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 26-JUN-07 10:01 | 0.388 | ND UJ | ppb v/v | | 1 | 0.5 |
| Chloroethane | 26-JUN-07 10:01 | 1.0 | ND UJ | µg/m³ | | 1 | 1.3 |
| Freon 11 | 26-JUN-07 10:01 | 0.0921 | 0.34 | ppb v/v | J | 1 | 0.5 |
| Freon 11 | 26-JUN-07 10:01 | 0.52 | 1.9 | µg/m³ | J | 1 | 2.8 |
| cis-1,2-Dichloroethene | 26-JUN-07 10:01 | 0.102 | 4.1 | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 26-JUN-07 10:01 | 0.40 | 16. | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 26-JUN-07 10:01 | 0.111 | 0.24 | ppb v/v | J | 1 | 0.5 |
| Carbon Disulfide | 26-JUN-07 10:01 | 0.35 | 0.75 | µg/m³ | J | 1 | 1.6 |
| Freon 113 | 26-JUN-07 10:01 | 0.0950 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 26-JUN-07 10:01 | 0.73 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 26-JUN-07 10:01 | 0.113 | 5.8 | ppb v/v | | 1 | 0.5 |
| Acetone | 26-JUN-07 10:01 | 0.27 | 14. | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 26-JUN-07 10:01 | 0.168 | 0.33 | ppb v/v | J | 1 | 0.5 |
| Methylene Chloride | 26-JUN-07 10:01 | 0.58 | 1.1 | µg/m³ | J | 1 | 1.7 |
| trans-1,2-Dichloroethene | 26-JUN-07 10:01 | 0.118 | 0.51 | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 26-JUN-07 10:01 | 0.47 | 2.0 | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 26-JUN-07 10:01 | 0.116 | 1.4 | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 26-JUN-07 10:01 | 0.47 | 5.6 | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 26-JUN-07 10:01 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 26-JUN-07 10:01 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 26-JUN-07 10:01 | 0.133 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 26-JUN-07 10:01 | 0.47 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 26-JUN-07 10:01 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 26-JUN-07 10:01 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 26-JUN-07 10:01 | 0.182 | 0.25 | ppb v/v | J | 1 | 0.5 |
| 2-Butanone | 26-JUN-07 10:01 | 0.54 | 0.74 | µg/m³ | J | 1 | 1.5 |
| Ethyl Acetate | 26-JUN-07 10:01 | 0.273 | ND | ppb v/v | | 1 | 0.5 |
| Ethyl Acetate | 26-JUN-07 10:01 | 0.98 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 26-JUN-07 10:01 | 0.121 | 0.78 | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S075S08K

Date Printed.....: 29-JUN-07 09:36
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E03339**
DCL Report Group..: **07E-0556-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 26-JUN-07 10:01 | 0.43 | 2.7 | µg/m³ | | 1 | 1.8 |
| Chloroform | 26-JUN-07 10:01 | 0.115 | 22. | ppb v/v | | 1 | 0.5 |
| Chloroform | 26-JUN-07 10:01 | 0.56 | 110 | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 26-JUN-07 10:01 | 0.0725 | 3.1 | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 26-JUN-07 10:01 | 0.40 | 17. | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 26-JUN-07 10:01 | 0.0657 | 0.12 | ppb v/v | J | 1 | 0.5 |
| Carbon Tetrachloride | 26-JUN-07 10:01 | 0.41 | 0.75 | µg/m³ | J | 1 | 3.1 |
| Benzene | 26-JUN-07 10:01 | 0.102 | 0.50 | ppb v/v | | 1 | 0.5 |
| Benzene | 26-JUN-07 10:01 | 0.33 | 1.6 | µg/m³ | | 1 | 1.6 |
| Tetrahydrofuran | 26-JUN-07 10:01 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 26-JUN-07 10:01 | 0.67 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 26-JUN-07 10:01 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 26-JUN-07 10:01 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 26-JUN-07 10:01 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 26-JUN-07 10:01 | 0.41 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 26-JUN-07 10:01 | 0.120 | 89. | ppb v/v | E | 1 | 0.5 |
| Trichloroethene | 26-JUN-07 10:01 | 0.64 | 480 | µg/m³ | E | 1 | 2.7 |
| 1,2-Dichloropropane | 26-JUN-07 10:01 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 26-JUN-07 10:01 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 26-JUN-07 10:01 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 26-JUN-07 10:01 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 26-JUN-07 10:01 | 0.101 | 0.58 | ppb v/v | | 1 | 0.5 |
| Heptane | 26-JUN-07 10:01 | 0.41 | 2.4 | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 26-JUN-07 10:01 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 26-JUN-07 10:01 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 26-JUN-07 10:01 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 26-JUN-07 10:01 | 0.48 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 26-JUN-07 10:01 | 0.115 | 1.0 | ppb v/v | | 1 | 0.5 |
| Toluene | 26-JUN-07 10:01 | 0.43 | 3.9 | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 26-JUN-07 10:01 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 26-JUN-07 10:01 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 26-JUN-07 10:01 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 26-JUN-07 10:01 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 26-JUN-07 10:01 | 0.0847 | 16. | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 26-JUN-07 10:01 | 0.57 | 110 | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 26-JUN-07 10:01 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 26-JUN-07 10:01 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 26-JUN-07 10:01 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 26-JUN-07 10:01 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 26-JUN-07 10:01 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 26-JUN-07 10:01 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 26-JUN-07 10:01 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 26-JUN-07 10:01 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 26-JUN-07 10:01 | 0.150 | 0.56 | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 26-JUN-07 10:01 | 0.65 | 2.4 | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 26-JUN-07 10:01 | 0.213 | 0.97 | ppb v/v | J | 1 | 1.0 |
| m,p-Xylene | 26-JUN-07 10:01 | 0.92 | 4.2 | µg/m³ | J | 1 | 4.3 |
| o-Xylene | 26-JUN-07 10:01 | 0.113 | 0.42 | ppb v/v | J | 1 | 0.5 |
| o-Xylene | 26-JUN-07 10:01 | 0.49 | 1.8 | µg/m³ | J | 1 | 2.2 |
| Styrene | 26-JUN-07 10:01 | 0.0748 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 26-JUN-07 10:01 | 0.32 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 26-JUN-07 10:01 | 0.0884 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 26-JUN-07 10:01 | 0.90 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 26-JUN-07 10:01 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 26-JUN-07 10:01 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 26-JUN-07 10:01 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 26-JUN-07 10:01 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 26-JUN-07 10:01 | 0.0983 | 0.12 | ppb v/v | J | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
06290709360875
Page 17

S075S08K

Date Printed.....: 29-JUN-07 09:36
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E03339**
DCL Report Group..: **07E-0556-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 26-JUN-07 10:01 | 0.48 | 0.57 | µg/m³ | J | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 26-JUN-07 10:01 | 0.112 | 0.14 | ppb v/v | J | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 26-JUN-07 10:01 | 0.55 | 0.71 | µg/m³ | J | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 26-JUN-07 10:01 | 0.117 | 0.64 | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 26-JUN-07 10:01 | 0.58 | 3.1 | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 26-JUN-07 10:01 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 26-JUN-07 10:01 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 26-JUN-07 10:01 | 0.0987 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 26-JUN-07 10:01 | 0.59 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 26-JUN-07 10:01 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 26-JUN-07 10:01 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 26-JUN-07 10:01 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 26-JUN-07 10:01 | 0.85 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 26-JUN-07 10:01 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 26-JUN-07 10:01 | 1.3 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Ethane, 1,1-difluoro-(4.18) | 26-JUN-07 10:01 | 24. | ppb v/v | J | 1 |
| Dimethyl Ether(4.49) | 26-JUN-07 10:01 | 4.4 | ppb v/v | J | 1 |
| Isobutane(4.62) | 26-JUN-07 10:01 | 5.6 | ppb v/v | J | 1 |
| Butane(4.89) | 26-JUN-07 10:01 | 5.2 | ppb v/v | J | 1 |
| Unknown fluorocarbon(13.75) | 26-JUN-07 10:01 | 5.0 | ppb v/v | J | 1 |
| Dodecane(20.21) | 26-JUN-07 10:01 | 2.7 | ppb v/v | J | 1 |

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**BEHR VOC PLUME SITE**
**DAYTON, OHIO**
**DATA VALIDATION REPORT**

**Date:** August 7, 2007
**Laboratory:** DataChem Laboratories, Inc. (DataChem), Salt Lake City, Utah
**Laboratory SDG #/Set ID #:** BEHR/07E-0583-01
**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)
**Weston Analytical Work Order #/TDD #**: 20405.016.003.0121.00/S05-0612-007

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation of air samples collected for the Behr VOC Plume Site that were analyzed for Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) method TO-15. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999.

**VOCs in Air by U.S. EPA Method TO15**

## 1. Samples

The following table summarizes the sample for which this data validation is being conducted.

| Samples | Lab ID | Matrix | Date Collected | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|
| EPA-39-IA | 07E03437 | Air | 06/15/07 | NA | 07/05/07 |

## 2. Holding Times

The sample was analyzed within the required holding time limit of 30 days from sample collection in accordance with method TO-15.

## 3. Instrument Performance Check

The instrument performance check using bromofluorobenzene (BFB) standard met the ion abundance criteria specified in method TO-15.

## 4. Initial Calibration

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30 percent. The average relative response factors were all greater than 0.05.

## 5. Continuing Calibration

The percent differences (%D) in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent except for 1,2,4-trichlorobezene and hexachlorobutadiene. The quantitation limits for these compounds in the sample were flagged "UJ" as estimated for this discrepancy.

## 6. Blanks

The method blank associated with the sample was free of target compound contamination.

## 7. Surrogates

The 4-bromofluorobenzene surrogate spike recoveries in the samples were within the quality control (QC) limits.

## 8. Laboratory Control Sample (LCS)

The LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits of 70 to 130 percent recovery except for the following compounds: 1,2,4-trichlorobezene and hexachlorobutadiene. Because these compounds were detected low in the LCS, the quantitation limits were flagged "UJ" as estimated.

## 9. Internal Standard Results

The internal standard area counts in the samples were within -50 percent to +100 percent of the area counts of the associated continuing calibration standard. The retention time of the internal standards did not vary more than ±30 seconds from the retention time of the associated continuing calibration standard.

## 10. Target Compound Identification

A spot-check was performed of the mass spectra for detected compounds. The spot-check confirmed compound identification. DataChem appropriately flagged those results detected above the method detection limit but below the quantitation limit as "J" or estimated.

# ATTACHMENT

## DATACHEM LABORATORIES
## RESULTS SUMMARY

DATA CHEM LABORATORIES
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# FORM A (TYPE I)
## SINGLE METHOD ANALYSES

## SAMPLE ANALYSIS DATA SHEET



S0761036

Date Printed.....: 10-JUL-07 09:45

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 0055729
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 0055729

Date Received.....: 02-JUL-07 00:00

Client Sample Name: **EPA-39-IA|108867**
DCL Sample Name...: **07E03437**
DCL Report Group..: **07E-0583-01**

Matrix.....: AIR
Date Sampled.....: 15-JUN-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G0765013
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

### Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 05-JUL-07 17:52 | 0.0669 | 1.3 | ppb v/v | B | 1 | 0.5 |
| Dichlorodifluoromethane | 05-JUL-07 17:52 | 0.33 | 6.7 | µg/m³ | B | 1 | 2.5 |
| Chloromethane | 05-JUL-07 17:52 | 0.249 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 05-JUL-07 17:52 | 0.51 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 05-JUL-07 17:52 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 05-JUL-07 17:52 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 05-JUL-07 17:52 | 0.301 | 0.44 | ppb v/v | J | 1 | 0.5 |
| Vinyl Chloride | 05-JUL-07 17:52 | 0.77 | 1.1 | µg/m³ | J | 1 | 1.3 |
| 1,3-Butadiene | 05-JUL-07 17:52 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 05-JUL-07 17:52 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 05-JUL-07 17:52 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 05-JUL-07 17:52 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 05-JUL-07 17:52 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 05-JUL-07 17:52 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 05-JUL-07 17:52 | 0.0921 | 0.28 | ppb v/v | J | 1 | 0.5 |
| Freon 11 | 05-JUL-07 17:52 | 0.52 | 1.6 | µg/m³ | J | 1 | 2.8 |
| cis-1,2-Dichloroethene | 05-JUL-07 17:52 | 0.102 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 05-JUL-07 17:52 | 0.40 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 05-JUL-07 17:52 | 0.111 | 5.8 | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 05-JUL-07 17:52 | 0.35 | 18. | µg/m³ | | 1 | 1.6 |
| Freon 113 | 05-JUL-07 17:52 | 0.0950 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 05-JUL-07 17:52 | 0.73 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 05-JUL-07 17:52 | 0.113 | 22. | ppb v/v | | 1 | 0.5 |
| Acetone | 05-JUL-07 17:52 | 0.27 | 52. | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 05-JUL-07 17:52 | 0.168 | 0.83 | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 05-JUL-07 17:52 | 0.58 | 2.9 | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 05-JUL-07 17:52 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 05-JUL-07 17:52 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 05-JUL-07 17:52 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 05-JUL-07 17:52 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 05-JUL-07 17:52 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 05-JUL-07 17:52 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 05-JUL-07 17:52 | 0.133 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 05-JUL-07 17:52 | 0.47 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 05-JUL-07 17:52 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 05-JUL-07 17:52 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 05-JUL-07 17:52 | 0.182 | 5.2 | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 05-JUL-07 17:52 | 0.54 | 15. | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 05-JUL-07 17:52 | 0.273 | ND | ppb v/v | | 1 | 0.5 |
| Ethyl Acetate | 05-JUL-07 17:52 | 0.98 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 05-JUL-07 17:52 | 0.121 | 0.48 | ppb v/v | J | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S0761036

Date Printed.....: 10-JUL-07 09:45
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E03437**
DCL Report Group..: **07E-0583-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 05-JUL-07 17:52 | 0.43 | 1.7 | µg/m³ | J | 1 | 1.8 |
| Chloroform | 05-JUL-07 17:52 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 05-JUL-07 17:52 | 0.56 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 05-JUL-07 17:52 | 0.0725 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 05-JUL-07 17:52 | 0.40 | ND | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 05-JUL-07 17:52 | 0.0657 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 05-JUL-07 17:52 | 0.41 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 05-JUL-07 17:52 | 0.102 | 0.24 | ppb v/v | J | 1 | 0.5 |
| Benzene | 05-JUL-07 17:52 | 0.33 | 0.77 | µg/m³ | J | 1 | 1.6 |
| Tetrahydrofuran | 05-JUL-07 17:52 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 05-JUL-07 17:52 | 0.67 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 05-JUL-07 17:52 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 05-JUL-07 17:52 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 05-JUL-07 17:52 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 05-JUL-07 17:52 | 0.41 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 05-JUL-07 17:52 | 0.120 | 0.70 | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 05-JUL-07 17:52 | 0.64 | 3.8 | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 05-JUL-07 17:52 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 05-JUL-07 17:52 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 05-JUL-07 17:52 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 05-JUL-07 17:52 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 05-JUL-07 17:52 | 0.101 | ND | ppb v/v | | 1 | 0.5 |
| Heptane | 05-JUL-07 17:52 | 0.41 | ND | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 05-JUL-07 17:52 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 05-JUL-07 17:52 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 05-JUL-07 17:52 | 0.116 | 0.32 | ppb v/v | J | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 05-JUL-07 17:52 | 0.48 | 1.3 | µg/m³ | J | 1 | 2.0 |
| Toluene | 05-JUL-07 17:52 | 0.115 | 2.8 | ppb v/v | | 1 | 0.5 |
| Toluene | 05-JUL-07 17:52 | 0.43 | 11. | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 05-JUL-07 17:52 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 05-JUL-07 17:52 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 05-JUL-07 17:52 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 05-JUL-07 17:52 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 05-JUL-07 17:52 | 0.0847 | ND | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 05-JUL-07 17:52 | 0.57 | ND | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 05-JUL-07 17:52 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 05-JUL-07 17:52 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 05-JUL-07 17:52 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 05-JUL-07 17:52 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 05-JUL-07 17:52 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 05-JUL-07 17:52 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 05-JUL-07 17:52 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 05-JUL-07 17:52 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 05-JUL-07 17:52 | 0.150 | 0.39 | ppb v/v | J | 1 | 0.5 |
| Ethylbenzene | 05-JUL-07 17:52 | 0.65 | 1.7 | µg/m³ | J | 1 | 2.2 |
| m,p-Xylene | 05-JUL-07 17:52 | 0.213 | 1.3 | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 05-JUL-07 17:52 | 0.92 | 5.6 | µg/m³ | | 1 | 4.3 |
| o-Xylene | 05-JUL-07 17:52 | 0.113 | 0.44 | ppb v/v | J | 1 | 0.5 |
| o-Xylene | 05-JUL-07 17:52 | 0.49 | 1.9 | µg/m³ | J | 1 | 2.2 |
| Styrene | 05-JUL-07 17:52 | 0.0748 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 05-JUL-07 17:52 | 0.32 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 05-JUL-07 17:52 | 0.0884 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 05-JUL-07 17:52 | 0.90 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 05-JUL-07 17:52 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 05-JUL-07 17:52 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 05-JUL-07 17:52 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 05-JUL-07 17:52 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 05-JUL-07 17:52 | 0.0983 | 0.11 | ppb v/v | J | 1 | 0.5 |

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FAX (801) 268-9992 E-mail: lab@datachem.com

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
07100709452011
Page 14

S0761036

Date Printed.....: 10-JUL-07 09:45
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E03437**
DCL Report Group..: **07E-0583-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 05-JUL-07 17:52 | 0.48 | 0.56 | µg/m³ | J | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 05-JUL-07 17:52 | 0.112 | 0.15 | ppb v/v | J | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 05-JUL-07 17:52 | 0.55 | 0.71 | µg/m³ | J | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 05-JUL-07 17:52 | 0.117 | 0.48 | ppb v/v | J | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 05-JUL-07 17:52 | 0.58 | 2.3 | µg/m³ | J | 1 | 2.5 |
| 1,3-Dichlorobenzene | 05-JUL-07 17:52 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 05-JUL-07 17:52 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 05-JUL-07 17:52 | 0.0987 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 05-JUL-07 17:52 | 0.59 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 05-JUL-07 17:52 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 05-JUL-07 17:52 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 05-JUL-07 17:52 | 0.115 | ND UJ | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 05-JUL-07 17:52 | 0.85 | ND UJ | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 05-JUL-07 17:52 | 0.119 | ND UJ | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 05-JUL-07 17:52 | 1.3 | ND UJ | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Propene(4.20) | 05-JUL-07 17:52 | 2.4 | ppb v/v | J | 1 |
| Isobutane(4.53) | 05-JUL-07 17:52 | 3.1 | ppb v/v | J | 1 |
| Ethanol(5.26) | 05-JUL-07 17:52 | 17. | ppb v/v | J | 1 |
| Isopropyl Alcohol(5.89) | 05-JUL-07 17:52 | 3.2 | ppb v/v | J | 1 |
| C6 Hydrocarbon(7.47) | 05-JUL-07 17:52 | 3.0 | ppb v/v | J | 1 |
| 1-Butanol(9.51) | 05-JUL-07 17:52 | 4.5 | ppb v/v | J | 1 |

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**BEHR VOC PLUME SITE**
**DAYTON, OHIO**
**DATA VALIDATION REPORT**

**Date:** December 5, 2008
**Laboratory:** DataChem Laboratories, Inc. (DataChem), Salt Lake City, Utah
**Laboratory SDG #/Set ID #:** 08I-1075-01 and 08I-1075-02
**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)
**Weston Analytical Work Order #/TDD #**: 20405.016.003.0121.00/S05-0612-007

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation of air samples collected for the Behr VOC Plume Site that were analyzed for Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) method TO-15. The sample analyzed under work order 08I-1075-01, was analyzed according to method TO-15 but with modifications for SIM for low-level VOC analysis. DataChem submitted a Level II data package which contains sample results and summary reports for quality control (QC) samples only (calibration information and instrument printouts are not included). The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008.

## VOCs IN AIR BY U.S. EPA METHOD TO-15

### 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

| Samples | Lab ID | Date Collected | Date Analyzed |
|---|---|---|---|
| Non-Responsive | 08I06233 | 10/20/08 | 10/31/08 |
| Non-Responsive | 08I06234 | 10/20/08 | 10/30/08 |

### 2. Holding Times

The samples were analyzed within the required holding time limit of 30 days from sample collection in accordance with method TO-15.

## 3. Blanks

The method blank associated with the samples was free of target compound contamination except for acetone at 0.087 part per billion by volume (ppb v/v) in work order 08I-1075-01. Because acetone was detected in the sample at greater than 10 times the blank concentration, no qualification was required.

## 4. Surrogate Results

The 4-bromofluorobenzene surrogate spike recoveries in the samples were acceptable.

## 5. Laboratory Control Sample (LCS) Results

The LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits of 65 to 135 percent recovery for the low-level SIM analysis and 70 to 130 percent recovery for the standard TO-15 analysis except for as follows.

In work order 08I-1075-02, the following compounds were detected high in the LCS or LCS duplicate: 1,2,4-trichlorobenzene; dichlorodifluoromethane; 1,3-butadiene; bromomethane; chloroethane; Freon 11; cis-1,2-dichloroethene; methyl tert-butyl ether; 1,1dichloroethene; ethyl acetate; carbon tetrachloride; heptane; trans-1,3-dichloropropene; styrene; and benzyl chloride. Detected results for these compounds in the sample associated with work order 08I-1075-02 were flagged “J” as estimated.

The relative percent difference between the LCS and LCS duplicate samples were within the QC limit of 25 percent or less.

## 6. Overall Data Assessment

Some results were flagged “J” by the laboratory because they were detected below the reporting limit. These results should be considered estimated and were flagged “J” to indicate this. The data are acceptable for use as qualified based on the information received.

# ATTACHMENT

# DATACHEM LABORATORIES
# RESULTS SUMMARY

DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
11040812511171
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S089Y01L

Date Printed.....: 04-NOV-08 12:51

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 20405.016.003.0121.00
Sampling Site.....: Behr PRP Voc Plume
Release Number.....: 20405.016.003.0121.00

Date Received.....: 23-OCT-08 00:00

Client Sample Name: Non-Responsive
DCL Sample Name...: 08106233
DCL Report Group..: 08I-1075-01

Matrix.....: AIR
Date Sampled.....: 20-OCT-08 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G089Z001
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 31-OCT-08 13:37 | | 0.52 | ppb v/v | | 1 | 0.05 |
| Dichlorodifluoromethane | 31-OCT-08 13:37 | | 2.6 | µg/m³ | | 1 | 0.25 |
| Chloromethane | 31-OCT-08 13:37 | | 0.50 | ppb v/v | | 1 | 0.05 |
| Chloromethane | 31-OCT-08 13:37 | | 1.0 | µg/m³ | | 1 | 0.10 |
| Freon 114 | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| Freon 114 | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.35 |
| Vinyl Chloride | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| Vinyl Chloride | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.13 |
| 1,3-Butadiene | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| 1,3-Butadiene | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.11 |
| Bromomethane | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| Bromomethane | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.19 |
| Chloroethane | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| Chloroethane | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.13 |
| Freon 11 | 31-OCT-08 13:37 | | 0.23 | ppb v/v | | 1 | 0.05 |
| Freon 11 | 31-OCT-08 13:37 | | 1.3 | µg/m³ | | 1 | 0.28 |
| cis-1,2-Dichloroethene | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| cis-1,2-Dichloroethene | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.20 |
| Carbon Disulfide | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| Carbon Disulfide | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.16 |
| Freon 113 | 31-OCT-08 13:37 | | 0.058 | ppb v/v | | 1 | 0.05 |
| Freon 113 | 31-OCT-08 13:37 | | 0.44 | µg/m³ | | 1 | 0.38 |
| Acetone | 31-OCT-08 13:37 | | 5.8 | ppb v/v | B | 10 | 0.50 |
| Acetone | 31-OCT-08 13:37 | | 14. | µg/m³ | B | 10 | 1.2 |
| Methylene Chloride | 31-OCT-08 13:37 | | 0.30 | ppb v/v | | 1 | 0.05 |
| Methylene Chloride | 31-OCT-08 13:37 | | 1.0 | µg/m³ | | 1 | 0.17 |
| trans-1,2-Dichloroethene | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| trans-1,2-Dichloroethene | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.20 |
| 1,1-Dichloroethane | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1-Dichloroethane | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.20 |
| Methyl t-Butyl Ether | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| Methyl t-Butyl Ether | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.18 |
| Vinyl Acetate | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| Vinyl Acetate | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.18 |
| 1,1-Dichloroethene | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1-Dichloroethene | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.20 |
| 2-Butanone | 31-OCT-08 13:37 | | 0.53 | ppb v/v | | 1 | 0.05 |
| 2-Butanone | 31-OCT-08 13:37 | | 1.6 | µg/m³ | | 1 | 0.15 |
| Ethyl Acetate | 31-OCT-08 13:37 | | 0.19 | ppb v/v | | 1 | 0.05 |
| Ethyl Acetate | 31-OCT-08 13:37 | | 0.70 | µg/m³ | | 1 | 0.18 |
| Hexane | 31-OCT-08 13:37 | | 1.6 | ppb v/v | | 10 | 0.50 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
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S089Y01L

Date Printed.....: 04-NOV-08 12:51
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06233
DCL Report Group..: 08I-1075-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 31-OCT-08 13:37 | | 5.8 | µg/m³ | | 10 | 1.8 |
| Chloroform | 31-OCT-08 13:37 | | 0.20 | ppb v/v | | 1 | 0.05 |
| Chloroform | 31-OCT-08 13:37 | | 0.96 | µg/m³ | | 1 | 0.24 |
| 1,1,1-Trichloroethane | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1,1-Trichloroethane | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.27 |
| Carbon Tetrachloride | 31-OCT-08 13:37 | | 0.084 | ppb v/v | | 1 | 0.05 |
| Carbon Tetrachloride | 31-OCT-08 13:37 | | 0.53 | µg/m³ | | 1 | 0.31 |
| Benzene | 31-OCT-08 13:37 | | 0.85 | ppb v/v | | 1 | 0.05 |
| Benzene | 31-OCT-08 13:37 | | 2.7 | µg/m³ | | 1 | 0.16 |
| Tetrahydrofuran | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| Tetrahydrofuran | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.15 |
| 1,2-Dichloroethane | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dichloroethane | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.20 |
| Cyclohexane | 31-OCT-08 13:37 | | 0.15 | ppb v/v | | 1 | 0.05 |
| Cyclohexane | 31-OCT-08 13:37 | | 0.52 | µg/m³ | | 1 | 0.17 |
| Trichloroethene | 31-OCT-08 13:37 | | 0.45 | ppb v/v | | 1 | 0.05 |
| Trichloroethene | 31-OCT-08 13:37 | | 2.4 | µg/m³ | | 1 | 0.27 |
| 1,2-Dichloropropane | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dichloropropane | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.23 |
| Bromodichloromethane | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| Bromodichloromethane | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.33 |
| Heptane | 31-OCT-08 13:37 | | 0.28 | ppb v/v | | 1 | 0.05 |
| Heptane | 31-OCT-08 13:37 | | 1.2 | µg/m³ | | 1 | 0.20 |
| cis-1,3-Dichloropropene | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| cis-1,3-Dichloropropene | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.23 |
| 4-Methyl-2-Pentanone | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| 4-Methyl-2-Pentanone | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.20 |
| Toluene | 31-OCT-08 13:37 | | 1.4 | ppb v/v | | 10 | 0.50 |
| Toluene | 31-OCT-08 13:37 | | 5.4 | µg/m³ | | 10 | 1.9 |
| trans-1,3-Dichloropropene | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| trans-1,3-Dichloropropene | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.23 |
| 1,1,2-Trichloroethane | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1,2-Trichloroethane | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.27 |
| Tetrachloroethene | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| Tetrachloroethene | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.34 |
| 2-Hexanone | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| 2-Hexanone | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.20 |
| Dibromochloromethane | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| Dibromochloromethane | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.42 |
| 1,2-Dibromoethane | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dibromoethane | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.38 |
| Chlorobenzene | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| Chlorobenzene | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.23 |
| Ethylbenzene | 31-OCT-08 13:37 | | 0.30 | ppb v/v | | 1 | 0.05 |
| Ethylbenzene | 31-OCT-08 13:37 | | 1.3 | µg/m³ | | 1 | 0.22 |
| m,p-Xylene | 31-OCT-08 13:37 | | 1.4 | ppb v/v | | 1 | 0.05 |
| m,p-Xylene | 31-OCT-08 13:37 | | 6.0 | µg/m³ | | 1 | 0.22 |
| o-Xylene | 31-OCT-08 13:37 | | 0.48 | ppb v/v | | 1 | 0.05 |
| o-Xylene | 31-OCT-08 13:37 | | 2.1 | µg/m³ | | 1 | 0.22 |
| Styrene | 31-OCT-08 13:37 | | 0.21 | ppb v/v | | 1 | 0.05 |
| Styrene | 31-OCT-08 13:37 | | 0.87 | µg/m³ | | 1 | 0.21 |
| Bromoform | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| Bromoform | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.51 |
| 1,1,2,2-Tetrachloroethane | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1,2,2-Tetrachloroethane | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.34 |
| Benzyl Chloride | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| Benzyl Chloride | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.26 |
| 4-Ethyl toluene | 31-OCT-08 13:37 | | 0.20 | ppb v/v | | 1 | 0.05 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S089Y01L

Date Printed.....: 04-NOV-08 12:51
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06233
DCL Report Group..: 08I-1075-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 31-OCT-08 13:37 | | 0.99 | µg/m³ | | 1 | 0.25 |
| 1,3,5-Trimethylbenzene | 31-OCT-08 13:37 | | 0.12 | ppb v/v | | 1 | 0.05 |
| 1,3,5-Trimethylbenzene | 31-OCT-08 13:37 | | 0.60 | µg/m³ | | 1 | 0.25 |
| 1,2,4-Trimethylbenzene | 31-OCT-08 13:37 | | 0.65 | ppb v/v | | 1 | 0.05 |
| 1,2,4-Trimethylbenzene | 31-OCT-08 13:37 | | 3.2 | µg/m³ | | 1 | 0.25 |
| 1,3-Dichlorobenzene | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| 1,3-Dichlorobenzene | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.30 |
| 1,4-Dichlorobenzene | 31-OCT-08 13:37 | | 2.8 | ppb v/v | | 10 | 0.50 |
| 1,4-Dichlorobenzene | 31-OCT-08 13:37 | | 17. | µg/m³ | | 10 | 3.0 |
| 1,2-Dichlorobenzene | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dichlorobenzene | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.30 |
| 1,2,4-Trichlorobenzene | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2,4-Trichlorobenzene | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.37 |
| Hexachlorobutadiene | 31-OCT-08 13:37 | | ND | ppb v/v | | 1 | 0.05 |
| Hexachlorobutadiene | 31-OCT-08 13:37 | | ND | µg/m³ | | 1 | 0.53 |

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# FORM A (TYPE I)
## SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
11040809552833


S089Y01M

## SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 04-NOV-08 09:55

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 20405.016.003.0121.00
Sampling Site.....: Behr PRP Voc Plume
Release Number.....: 20405.016.003.0121.00

Date Received.....: 23-OCT-08 00:00

Client Sample Name: Non-Responsive
DCL Sample Name...: 08I06234
DCL Report Group..: 08I-1075-02

Matrix.....: AIR
Date Sampled.....: 20-OCT-08 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G089Y00Y
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

### Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 30-OCT-08 18:35 | 0.432 | 0.55 J | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 30-OCT-08 18:35 | 2.1 | 2.7 J | µg/m³ | | 1 | 2.5 |
| Chloromethane | 30-OCT-08 18:35 | 0.405 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 30-OCT-08 18:35 | 0.84 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 30-OCT-08 18:35 | 0.409 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 30-OCT-08 18:35 | 2.9 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 30-OCT-08 18:35 | 0.443 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 30-OCT-08 18:35 | 1.1 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 30-OCT-08 18:35 | 0.338 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 30-OCT-08 18:35 | 0.75 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 30-OCT-08 18:35 | 0.326 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 30-OCT-08 18:35 | 1.3 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 30-OCT-08 18:35 | 0.267 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 30-OCT-08 18:35 | 0.70 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 30-OCT-08 18:35 | 0.384 | ND | ppb v/v | | 1 | 0.5 |
| Freon 11 | 30-OCT-08 18:35 | 2.2 | ND | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 30-OCT-08 18:35 | 0.387 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 30-OCT-08 18:35 | 1.5 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 30-OCT-08 18:35 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 30-OCT-08 18:35 | 1.2 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 30-OCT-08 18:35 | 0.369 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 30-OCT-08 18:35 | 2.8 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 30-OCT-08 18:35 | 0.195 | 7.0 | ppb v/v | | 1 | 0.5 |
| Acetone | 30-OCT-08 18:35 | 0.46 | 17. | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 30-OCT-08 18:35 | 0.339 | ND | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 30-OCT-08 18:35 | 1.2 | ND | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 30-OCT-08 18:35 | 0.437 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 30-OCT-08 18:35 | 1.7 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 30-OCT-08 18:35 | 0.355 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 30-OCT-08 18:35 | 1.4 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 30-OCT-08 18:35 | 0.255 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 30-OCT-08 18:35 | 0.92 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 30-OCT-08 18:35 | 0.222 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 30-OCT-08 18:35 | 0.78 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 30-OCT-08 18:35 | 0.390 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 30-OCT-08 18:35 | 1.5 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 30-OCT-08 18:35 | 0.248 | 0.33 J | ppb v/v | J | 1 | 0.5 |
| 2-Butanone | 30-OCT-08 18:35 | 0.73 | 0.97 J | µg/m³ | J | 1 | 1.5 |
| Ethyl Acetate | 30-OCT-08 18:35 | 0.261 | ND | ppb v/v | | 1 | 0.5 |
| Ethyl Acetate | 30-OCT-08 18:35 | 0.94 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 30-OCT-08 18:35 | 0.287 | ND | ppb v/v | | 1 | 0.5 |

LY 12/5/08

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
11040809552833
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S089Y01M

Date Printed.....: 04-NOV-08 09:55
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06234
DCL Report Group..: 08I-1075-02

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 30-OCT-08 18:35 | 1.0 | ND | µg/m³ | | 1 | 1.8 |
| Chloroform | 30-OCT-08 18:35 | 0.350 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 30-OCT-08 18:35 | 1.7 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 30-OCT-08 18:35 | 0.321 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 30-OCT-08 18:35 | 1.8 | ND | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 30-OCT-08 18:35 | 0.281 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 30-OCT-08 18:35 | 1.8 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 30-OCT-08 18:35 | 0.314 | ND | ppb v/v | | 1 | 0.5 |
| Benzene | 30-OCT-08 18:35 | 1.0 | ND | µg/m³ | | 1 | 1.6 |
| Tetrahydrofuran | 30-OCT-08 18:35 | 0.350 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 30-OCT-08 18:35 | 1.0 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 30-OCT-08 18:35 | 0.297 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 30-OCT-08 18:35 | 1.2 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 30-OCT-08 18:35 | 0.359 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 30-OCT-08 18:35 | 1.2 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 30-OCT-08 18:35 | 0.291 | 2.1 | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 30-OCT-08 18:35 | 1.6 | 11. | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 30-OCT-08 18:35 | 0.318 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 30-OCT-08 18:35 | 1.5 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 30-OCT-08 18:35 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 30-OCT-08 18:35 | 1.5 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 30-OCT-08 18:35 | 0.302 | ND | ppb v/v | | 1 | 0.5 |
| Heptane | 30-OCT-08 18:35 | 1.2 | ND | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 30-OCT-08 18:35 | 0.289 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 30-OCT-08 18:35 | 1.3 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 30-OCT-08 18:35 | 0.212 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 30-OCT-08 18:35 | 0.87 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 30-OCT-08 18:35 | 0.279 | ND | ppb v/v | | 1 | 0.5 |
| Toluene | 30-OCT-08 18:35 | 1.1 | ND | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 30-OCT-08 18:35 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 30-OCT-08 18:35 | 1.0 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 30-OCT-08 18:35 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 30-OCT-08 18:35 | 1.2 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 30-OCT-08 18:35 | 0.350 | ND | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 30-OCT-08 18:35 | 2.4 | ND | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 30-OCT-08 18:35 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 30-OCT-08 18:35 | 1.4 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 30-OCT-08 18:35 | 0.288 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 30-OCT-08 18:35 | 2.4 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 30-OCT-08 18:35 | 0.315 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 30-OCT-08 18:35 | 2.4 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 30-OCT-08 18:35 | 0.270 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 30-OCT-08 18:35 | 1.2 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 30-OCT-08 18:35 | 0.307 | ND | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 30-OCT-08 18:35 | 1.3 | ND | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 30-OCT-08 18:35 | 0.520 | ND | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 30-OCT-08 18:35 | 2.3 | ND | µg/m³ | | 1 | 4.3 |
| o-Xylene | 30-OCT-08 18:35 | 0.262 | ND | ppb v/v | | 1 | 0.5 |
| o-Xylene | 30-OCT-08 18:35 | 1.1 | ND | µg/m³ | | 1 | 2.2 |
| Styrene | 30-OCT-08 18:35 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 30-OCT-08 18:35 | 0.97 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 30-OCT-08 18:35 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 30-OCT-08 18:35 | 2.3 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 30-OCT-08 18:35 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 30-OCT-08 18:35 | 1.7 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 30-OCT-08 18:35 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 30-OCT-08 18:35 | 1.3 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 30-OCT-08 18:35 | 0.183 | ND | ppb v/v | | 1 | 0.5 |

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SAMPLE ANALYSIS DATA SHEET



S089Y01M

Date Printed.....: 04-NOV-08 09:55
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06234
DCL Report Group..: 08I-1075-02

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 30-OCT-08 18:35 | 0.90 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 30-OCT-08 18:35 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 30-OCT-08 18:35 | 1.2 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 30-OCT-08 18:35 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 30-OCT-08 18:35 | 1.1 | ND | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 30-OCT-08 18:35 | 0.236 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 30-OCT-08 18:35 | 1.4 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 30-OCT-08 18:35 | 0.303 | 0.44 J | ppb v/v | J | 1 | 0.5 |
| 1,4-Dichlorobenzene | 30-OCT-08 18:35 | 1.8 | 2.7 J | µg/m³ | J | 1 | 3.0 |
| 1,2-Dichlorobenzene | 30-OCT-08 18:35 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 30-OCT-08 18:35 | 1.3 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 30-OCT-08 18:35 | 0.361 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 30-OCT-08 18:35 | 2.7 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 30-OCT-08 18:35 | 0.241 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 30-OCT-08 18:35 | 2.6 | ND | µg/m³ | | 1 | 5.3 |

LP 12/5/08

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Unknown(3.97) | 30-OCT-08 18:35 | 11. | ppb v/v | J | 1 |
| Unknown fluorocarbon(4.16) | 30-OCT-08 18:35 | 6.8 | ppb v/v | J | 1 |
| Isobutane(4.27) | 30-OCT-08 18:35 | 5.6 | ppb v/v | J | 1 |
| Butane(4.50) | 30-OCT-08 18:35 | 4.0 | ppb v/v | J | 1 |
| Ethanol(4.98) | 30-OCT-08 18:35 | 3.2 | ppb v/v | J | 1 |
| Unknown fluorocarbon(5.05) | 30-OCT-08 18:35 | 2.3 | ppb v/v | J | 1 |
| Butane, 2-methyl-(5.27) | 30-OCT-08 18:35 | 7.8 | ppb v/v | J | 1 |
| Isopropyl Alcohol(5.60) | 30-OCT-08 18:35 | 0.60 | ppb v/v | J | 1 |

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**BEHR VOC PLUME SITE**
**DAYTON, OHIO**
**DATA VALIDATION REPORT**

**Date:** December 5, 2008
**Laboratory:** DataChem Laboratories, Inc. (DataChem), Salt Lake City, Utah
**Laboratory SDG #/Set ID #:** 08I-1074-01 and 08I-1074-02
**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)
**Weston Analytical Work Order #/TDD #**: 20405.016.003.0121.00/S05-0612-007

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation of air samples collected for the Behr VOC Plume Site that were analyzed for Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) method TO-15. The samples analyzed under work order 08I-1070-01, were analyzed according to method TO-15 but with modifications for SIM for low-level VOC analysis. DataChem submitted a Level II data package which contains sample results and summary reports for quality control (QC) samples only (calibration information and instrument printouts are not included). The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008.

## VOCs IN AIR BY U.S. EPA METHOD TO-15

### 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

| Samples | Lab ID | Date Collected | Date Analyzed |
|---|---|---|---|
| Non-Responsive | 08I06227 | 10/23/08 | 10/31/08 |
| | 08I06228 | 10/23/08 | 10/31/08 |
| | 08I06229 | 10/23/08 | 10/31/08 |
| | 08I06230 | 10/23/08 | 10/30/08 |
| | 08I06231 | 10/23/08 | 10/30/08 |
| | 08I06232 | 10/23/08 | 10/30/08 |

### 2. Holding Times

The samples were analyzed within the required holding time limit of 30 days from sample collection in accordance with method TO-15.

## 3. Blanks

The method blank associated with the samples was free of target compound contamination except for acetone at 0.087 part per billion by volume (ppb v/v) in work order 08I-1074-01. Because acetone was detected in the samples at greater than 10 times the blank concentration, no qualification was required.

## 4. Surrogate Results

The 4-bromofluorobenzene surrogate spike recoveries in the samples were acceptable.

## 5. Laboratory Control Sample (LCS) Results

The LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits of 65 to 135 percent recovery for the low-level SIM analysis and 70 to 130 percent recovery for the standard TO-15 analysis except for as follows.

In work order 08I-1074-02, the following compounds were detected high in the LCS or LCS duplicate: 1,2,4-trichlorobenzene; dichlorodifluoromethane; 1,3-butadiene; bromomethane; chloroethane; Freon 11; cis-1,2-dichloroethene; methyl tert-butyl ether; 1,1dichloroethene; ethyl acetate; carbon tetrachloride; heptane; trans-1,3-dichloropropene; styrene; and benzyl chloride. Detected results for these compounds in the sample associated with work order 08I-1074-02 were flagged “J” as estimated.

The relative percent difference between the LCS and LCS duplicate samples were within the QC limit of 25 percent or less.

## 6. Overall Data Assessment

Some results were flagged “J” by the laboratory because they were detected below the reporting limit. These results should be considered estimated and were flagged “J” to indicate this. The data are acceptable for use as qualified based on the information received.

# ATTACHMENT

# DATACHEM LABORATORIES
# RESULTS SUMMARY

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
11040812475334


S089Y01D

## SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 04-NOV-08 12:47

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 20405.016.003.0121.00
Sampling Site.....: Behr PRP Voc Plume
Release Number.....: 20405.016.003.0121.00

Date Received.....: 27-OCT-08 00:00

Client Sample Name: Non-Responsive
DCL Sample Name...: 08I06227
DCL Report Group..: 08I-1074-01

Matrix.....: AIR
Date Sampled.....: 23-OCT-08 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G089Z001
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

### Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 31-OCT-08 09:43 | | 0.47 | ppb v/v | | 1 | 0.05 |
| Dichlorodifluoromethane | 31-OCT-08 09:43 | | 2.3 | µg/m³ | | 1 | 0.25 |
| Chloromethane | 31-OCT-08 09:43 | | 0.58 | ppb v/v | | 1 | 0.05 |
| Chloromethane | 31-OCT-08 09:43 | | 1.2 | µg/m³ | | 1 | 0.10 |
| Freon 114 | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| Freon 114 | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.35 |
| Vinyl Chloride | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| Vinyl Chloride | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.13 |
| 1,3-Butadiene | 31-OCT-08 09:43 | | 0.31 | ppb v/v | | 1 | 0.05 |
| 1,3-Butadiene | 31-OCT-08 09:43 | | 0.69 | µg/m³ | | 1 | 0.11 |
| Bromomethane | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| Bromomethane | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.19 |
| Chloroethane | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| Chloroethane | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.13 |
| Freon 11 | 31-OCT-08 09:43 | | 0.26 | ppb v/v | | 1 | 0.05 |
| Freon 11 | 31-OCT-08 09:43 | | 1.5 | µg/m³ | | 1 | 0.28 |
| cis-1,2-Dichloroethene | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| cis-1,2-Dichloroethene | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.20 |
| Carbon Disulfide | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| Carbon Disulfide | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.16 |
| Freon 113 | 31-OCT-08 09:43 | | 0.084 | ppb v/v | | 1 | 0.05 |
| Freon 113 | 31-OCT-08 09:43 | | 0.64 | µg/m³ | | 1 | 0.38 |
| Acetone | 31-OCT-08 09:43 | | 5.2 | ppb v/v | B | 10 | 0.50 |
| Acetone | 31-OCT-08 09:43 | | 12. | µg/m³ | B | 10 | 1.2 |
| Methylene Chloride | 31-OCT-08 09:43 | | 6.9 | ppb v/v | | 10 | 0.50 |
| Methylene Chloride | 31-OCT-08 09:43 | | 24. | µg/m³ | | 10 | 1.7 |
| trans-1,2-Dichloroethene | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| trans-1,2-Dichloroethene | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.20 |
| 1,1-Dichloroethane | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1-Dichloroethane | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.20 |
| Methyl t-Butyl Ether | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| Methyl t-Butyl Ether | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.18 |
| Vinyl Acetate | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| Vinyl Acetate | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.18 |
| 1,1-Dichloroethene | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1-Dichloroethene | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.20 |
| 2-Butanone | 31-OCT-08 09:43 | | 0.56 | ppb v/v | | 1 | 0.05 |
| 2-Butanone | 31-OCT-08 09:43 | | 1.6 | µg/m³ | | 1 | 0.15 |
| Ethyl Acetate | 31-OCT-08 09:43 | | 0.26 | ppb v/v | | 1 | 0.05 |
| Ethyl Acetate | 31-OCT-08 09:43 | | 0.94 | µg/m³ | | 1 | 0.18 |
| Hexane | 31-OCT-08 09:43 | | 0.29 | ppb v/v | | 1 | 0.05 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
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S089Y01D

Date Printed.....: 04-NOV-08 12:47
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06227
DCL Report Group..: 08I-1074-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 31-OCT-08 09:43 | | 1.0 | µg/m³ | | 1 | 0.18 |
| Chloroform | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| Chloroform | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.24 |
| 1,1,1-Trichloroethane | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1,1-Trichloroethane | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.27 |
| Carbon Tetrachloride | 31-OCT-08 09:43 | | 0.090 | ppb v/v | | 1 | 0.05 |
| Carbon Tetrachloride | 31-OCT-08 09:43 | | 0.57 | µg/m³ | | 1 | 0.31 |
| Benzene | 31-OCT-08 09:43 | | 0.31 | ppb v/v | | 1 | 0.05 |
| Benzene | 31-OCT-08 09:43 | | 0.99 | µg/m³ | | 1 | 0.16 |
| Tetrahydrofuran | 31-OCT-08 09:43 | | 0.19 | ppb v/v | | 1 | 0.05 |
| Tetrahydrofuran | 31-OCT-08 09:43 | | 0.56 | µg/m³ | | 1 | 0.15 |
| 1,2-Dichloroethane | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dichloroethane | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.20 |
| Cyclohexane | 31-OCT-08 09:43 | | 0.11 | ppb v/v | | 1 | 0.05 |
| Cyclohexane | 31-OCT-08 09:43 | | 0.39 | µg/m³ | | 1 | 0.17 |
| Trichloroethene | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| Trichloroethene | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.27 |
| 1,2-Dichloropropane | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dichloropropane | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.23 |
| Bromodichloromethane | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| Bromodichloromethane | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.33 |
| Heptane | 31-OCT-08 09:43 | | 0.49 | ppb v/v | | 1 | 0.05 |
| Heptane | 31-OCT-08 09:43 | | 2.0 | µg/m³ | | 1 | 0.20 |
| cis-1,3-Dichloropropene | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| cis-1,3-Dichloropropene | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.23 |
| 4-Methyl-2-Pentanone | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| 4-Methyl-2-Pentanone | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.20 |
| Toluene | 31-OCT-08 09:43 | | 0.94 | ppb v/v | | 1 | 0.05 |
| Toluene | 31-OCT-08 09:43 | | 3.5 | µg/m³ | | 1 | 0.19 |
| trans-1,3-Dichloropropene | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| trans-1,3-Dichloropropene | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.23 |
| 1,1,2-Trichloroethane | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1,2-Trichloroethane | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.27 |
| Tetrachloroethene | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| Tetrachloroethene | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.34 |
| 2-Hexanone | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| 2-Hexanone | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.20 |
| Dibromochloromethane | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| Dibromochloromethane | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.42 |
| 1,2-Dibromoethane | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dibromoethane | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.38 |
| Chlorobenzene | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| Chlorobenzene | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.23 |
| Ethylbenzene | 31-OCT-08 09:43 | | 0.086 | ppb v/v | | 1 | 0.05 |
| Ethylbenzene | 31-OCT-08 09:43 | | 0.37 | µg/m³ | | 1 | 0.22 |
| m,p-Xylene | 31-OCT-08 09:43 | | 0.26 | ppb v/v | | 1 | 0.05 |
| m,p-Xylene | 31-OCT-08 09:43 | | 1.1 | µg/m³ | | 1 | 0.22 |
| o-Xylene | 31-OCT-08 09:43 | | 0.092 | ppb v/v | | 1 | 0.05 |
| o-Xylene | 31-OCT-08 09:43 | | 0.40 | µg/m³ | | 1 | 0.22 |
| Styrene | 31-OCT-08 09:43 | | 0.050 | ppb v/v | | 1 | 0.05 |
| Styrene | 31-OCT-08 09:43 | | 0.21 | µg/m³ | | 1 | 0.21 |
| Bromoform | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| Bromoform | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.51 |
| 1,1,2,2-Tetrachloroethane | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1,2,2-Tetrachloroethane | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.34 |
| Benzyl Chloride | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| Benzyl Chloride | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.26 |
| 4-Ethyl toluene | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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S089Y01D

Date Printed.....: 04-NOV-08 12:47
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06227
DCL Report Group..: 08I-1074-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.25 |
| 1,3,5-Trimethylbenzene | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| 1,3,5-Trimethylbenzene | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.25 |
| 1,2,4-Trimethylbenzene | 31-OCT-08 09:43 | | 0.13 | ppb v/v | | 1 | 0.05 |
| 1,2,4-Trimethylbenzene | 31-OCT-08 09:43 | | 0.66 | µg/m³ | | 1 | 0.25 |
| 1,3-Dichlorobenzene | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| 1,3-Dichlorobenzene | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.30 |
| 1,4-Dichlorobenzene | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| 1,4-Dichlorobenzene | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.30 |
| 1,2-Dichlorobenzene | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dichlorobenzene | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.30 |
| 1,2,4-Trichlorobenzene | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2,4-Trichlorobenzene | 31-OCT-08 09:43 | | ND | µg/m³ | | 1 | 0.37 |
| Hexachlorobutadiene | 31-OCT-08 09:43 | | ND | ppb v/v | | 1 | 0.05 |
| Hexachlorobutadiene | 31-OCT-08 09:43 | | ND | ug/m³ | | 1 | 0.53 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
11040812475334
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S089Y01F

Non-Responsive

Date Printed.....: 04-NOV-08 12:47

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 20405.016.003.0121.00
Sampling Site.....: Behr PRP Voc Plume
Release Number.....: 20405.016.003.0121.00

Date Received.....: 27-OCT-08 00:00

Client Sample Name
DCL Sample Name...: 08I06228
DCL Report Group..: 08I-1074-01

Matrix.....: AIR
Date Sampled.....: 23-OCT-08 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G089Z001
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 31-OCT-08 11:02 | | 0.52 | ppb v/v | | 1 | 0.05 |
| Dichlorodifluoromethane | 31-OCT-08 11:02 | | 2.6 | µg/m³ | | 1 | 0.25 |
| Chloromethane | 31-OCT-08 11:02 | | 0.77 | ppb v/v | | 1 | 0.05 |
| Chloromethane | 31-OCT-08 11:02 | | 1.6 | µg/m³ | | 1 | 0.10 |
| Freon 114 | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| Freon 114 | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.35 |
| Vinyl Chloride | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| Vinyl Chloride | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.13 |
| 1,3-Butadiene | 31-OCT-08 11:02 | | 0.16 | ppb v/v | | 1 | 0.05 |
| 1,3-Butadiene | 31-OCT-08 11:02 | | 0.35 | µg/m³ | | 1 | 0.11 |
| Bromomethane | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| Bromomethane | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.19 |
| Chloroethane | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| Chloroethane | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.13 |
| Freon 11 | 31-OCT-08 11:02 | | 0.24 | ppb v/v | | 1 | 0.05 |
| Freon 11 | 31-OCT-08 11:02 | | 1.4 | µg/m³ | | 1 | 0.28 |
| cis-1,2-Dichloroethene | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| cis-1,2-Dichloroethene | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.20 |
| Carbon Disulfide | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| Carbon Disulfide | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.16 |
| Freon 113 | 31-OCT-08 11:02 | | 0.080 | ppb v/v | | 1 | 0.05 |
| Freon 113 | 31-OCT-08 11:02 | | 0.61 | µg/m³ | | 1 | 0.38 |
| Acetone | 31-OCT-08 11:02 | | 3.7 | ppb v/v | B | 10 | 0.50 |
| Acetone | 31-OCT-08 11:02 | | 8.9 | µg/m³ | B | 10 | 1.2 |
| Methylene Chloride | 31-OCT-08 11:02 | | 0.078 | ppb v/v | | 1 | 0.05 |
| Methylene Chloride | 31-OCT-08 11:02 | | 0.27 | µg/m³ | | 1 | 0.17 |
| trans-1,2-Dichloroethene | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| trans-1,2-Dichloroethene | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.20 |
| 1,1-Dichloroethane | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1-Dichloroethane | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.20 |
| Methyl t-Butyl Ether | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| Methyl t-Butyl Ether | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.18 |
| Vinyl Acetate | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| Vinyl Acetate | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.18 |
| 1,1-Dichloroethene | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1-Dichloroethene | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.20 |
| 2-Butanone | 31-OCT-08 11:02 | | 1.5 | ppb v/v | | 10 | 0.50 |
| 2-Butanone | 31-OCT-08 11:02 | | 4.4 | µg/m³ | | 10 | 1.5 |
| Ethyl Acetate | 31-OCT-08 11:02 | | 0.18 | ppb v/v | | 1 | 0.05 |
| Ethyl Acetate | 31-OCT-08 11:02 | | 0.63 | µg/m³ | | 1 | 0.18 |
| Hexane | 31-OCT-08 11:02 | | 0.81 | ppb v/v | | 1 | 0.05 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
11040812475334

S089Y01F

Date Printed.....: 04-NOV-08 12:47
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06228
DCL Report Group..: 08I-1074-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 31-OCT-08 11:02 | | 2.9 | µg/m³ | | 1 | 0.18 |
| Chloroform | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| Chloroform | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.24 |
| 1,1,1-Trichloroethane | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1,1-Trichloroethane | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.27 |
| Carbon Tetrachloride | 31-OCT-08 11:02 | | 0.089 | ppb v/v | | 1 | 0.05 |
| Carbon Tetrachloride | 31-OCT-08 11:02 | | 0.56 | µg/m³ | | 1 | 0.31 |
| Benzene | 31-OCT-08 11:02 | | 0.22 | ppb v/v | | 1 | 0.05 |
| Benzene | 31-OCT-08 11:02 | | 0.69 | µg/m³ | | 1 | 0.16 |
| Tetrahydrofuran | 31-OCT-08 11:02 | | 1.3 | ppb v/v | | 10 | 0.50 |
| Tetrahydrofuran | 31-OCT-08 11:02 | | 3.9 | µg/m³ | | 10 | 1.5 |
| 1,2-Dichloroethane | 31-OCT-08 11:02 | | 0.052 | ppb v/v | | 1 | 0.05 |
| 1,2-Dichloroethane | 31-OCT-08 11:02 | | 0.21 | µg/m³ | | 1 | 0.20 |
| Cyclohexane | 31-OCT-08 11:02 | | 0.12 | ppb v/v | | 1 | 0.05 |
| Cyclohexane | 31-OCT-08 11:02 | | 0.43 | µg/m³ | | 1 | 0.17 |
| Trichloroethene | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| Trichloroethene | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.27 |
| 1,2-Dichloropropane | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dichloropropane | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.23 |
| Bromodichloromethane | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| Bromodichloromethane | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.33 |
| Heptane | 31-OCT-08 11:02 | | 1.6 | ppb v/v | | 1 | 0.05 |
| Heptane | 31-OCT-08 11:02 | | 6.7 | µg/m³ | | 1 | 0.20 |
| cis-1,3-Dichloropropene | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| cis-1,3-Dichloropropene | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.23 |
| 4-Methyl-2-Pentanone | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| 4-Methyl-2-Pentanone | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.20 |
| Toluene | 31-OCT-08 11:02 | | 0.50 | ppb v/v | | 1 | 0.05 |
| Toluene | 31-OCT-08 11:02 | | 1.9 | µg/m³ | | 1 | 0.19 |
| trans-1,3-Dichloropropene | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| trans-1,3-Dichloropropene | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.23 |
| 1,1,2-Trichloroethane | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1,2-Trichloroethane | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.27 |
| Tetrachloroethene | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| Tetrachloroethene | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.34 |
| 2-Hexanone | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| 2-Hexanone | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.20 |
| Dibromochloromethane | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| Dibromochloromethane | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.42 |
| 1,2-Dibromoethane | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dibromoethane | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.38 |
| Chlorobenzene | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| Chlorobenzene | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.23 |
| Ethylbenzene | 31-OCT-08 11:02 | | 0.11 | ppb v/v | | 1 | 0.05 |
| Ethylbenzene | 31-OCT-08 11:02 | | 0.48 | µg/m³ | | 1 | 0.22 |
| m,p-Xylene | 31-OCT-08 11:02 | | 0.30 | ppb v/v | | 1 | 0.05 |
| m,p-Xylene | 31-OCT-08 11:02 | | 1.3 | µg/m³ | | 1 | 0.22 |
| o-Xylene | 31-OCT-08 11:02 | | 0.089 | ppb v/v | | 1 | 0.05 |
| o-Xylene | 31-OCT-08 11:02 | | 0.39 | µg/m³ | | 1 | 0.22 |
| Styrene | 31-OCT-08 11:02 | | 0.13 | ppb v/v | | 1 | 0.05 |
| Styrene | 31-OCT-08 11:02 | | 0.56 | µg/m³ | | 1 | 0.21 |
| Bromoform | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| Bromoform | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.51 |
| 1,1,2,2-Tetrachloroethane | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1,2,2-Tetrachloroethane | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.34 |
| Benzyl Chloride | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| Benzyl Chloride | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.26 |
| 4-Ethyl toluene | 31-OCT-08 11:02 | | 0.051 | ppb v/v | | 1 | 0.05 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S089Y01F

Date Printed.....: 04-NOV-08 12:47
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06228
DCL Report Group..: 08I-1074-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 31-OCT-08 11:02 | | 0.25 | µg/m³ | | 1 | 0.25 |
| 1,3,5-Trimethylbenzene | 31-OCT-08 11:02 | | 0.058 | ppb v/v | | 1 | 0.05 |
| 1,3,5-Trimethylbenzene | 31-OCT-08 11:02 | | 0.28 | µg/m³ | | 1 | 0.25 |
| 1,2,4-Trimethylbenzene | 31-OCT-08 11:02 | | 0.19 | ppb v/v | | 1 | 0.05 |
| 1,2,4-Trimethylbenzene | 31-OCT-08 11:02 | | 0.93 | µg/m³ | | 1 | 0.25 |
| 1,3-Dichlorobenzene | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| 1,3-Dichlorobenzene | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.30 |
| 1,4-Dichlorobenzene | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| 1,4-Dichlorobenzene | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.30 |
| 1,2-Dichlorobenzene | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dichlorobenzene | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.30 |
| 1,2,4-Trichlorobenzene | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2,4-Trichlorobenzene | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.37 |
| Hexachlorobutadiene | 31-OCT-08 11:02 | | ND | ppb v/v | | 1 | 0.05 |
| Hexachlorobutadiene | 31-OCT-08 11:02 | | ND | µg/m³ | | 1 | 0.53 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S089Y01G

Date Printed.....: 04-NOV-08 12:47

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 20405.016.003.0121.00
Sampling Site.....: Behr PRP Voc Plume
Release Number.....: 20405.016.003.0121.00

Date Received.....: 27-OCT-08 00:00

Client Sample Name: Non-Responsive
DCL Sample Name...: [redacted]
DCL Report Group..: 08I-1074-01

Matrix.....: AIR
Date Sampled.....: 23-OCT-08 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G089Z001
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 31-OCT-08 12:20 | | 0.48 | ppb v/v | | 1 | 0.05 |
| Dichlorodifluoromethane | 31-OCT-08 12:20 | | 2.4 | µg/m³ | | 1 | 0.25 |
| Chloromethane | 31-OCT-08 12:20 | | 0.57 | ppb v/v | | 1 | 0.05 |
| Chloromethane | 31-OCT-08 12:20 | | 1.2 | µg/m³ | | 1 | 0.10 |
| Freon 114 | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Freon 114 | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.35 |
| Vinyl Chloride | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Vinyl Chloride | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.13 |
| 1,3-Butadiene | 31-OCT-08 12:20 | | 0.16 | ppb v/v | | 1 | 0.05 |
| 1,3-Butadiene | 31-OCT-08 12:20 | | 0.36 | µg/m³ | | 1 | 0.11 |
| Bromomethane | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Bromomethane | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.19 |
| Chloroethane | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Chloroethane | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.13 |
| Freon 11 | 31-OCT-08 12:20 | | 0.22 | ppb v/v | | 1 | 0.05 |
| Freon 11 | 31-OCT-08 12:20 | | 1.3 | µg/m³ | | 1 | 0.28 |
| cis-1,2-Dichloroethene | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| cis-1,2-Dichloroethene | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.20 |
| Carbon Disulfide | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Carbon Disulfide | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.16 |
| Freon 113 | 31-OCT-08 12:20 | | 0.054 | ppb v/v | | 1 | 0.05 |
| Freon 113 | 31-OCT-08 12:20 | | 0.42 | µg/m³ | | 1 | 0.38 |
| Acetone | 31-OCT-08 12:20 | | 3.2 | ppb v/v | B | 10 | 0.50 |
| Acetone | 31-OCT-08 12:20 | | 7.6 | µg/m³ | B | 10 | 1.2 |
| Methylene Chloride | 31-OCT-08 12:20 | | 0.067 | ppb v/v | | 1 | 0.05 |
| Methylene Chloride | 31-OCT-08 12:20 | | 0.23 | µg/m³ | | 1 | 0.17 |
| trans-1,2-Dichloroethene | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| trans-1,2-Dichloroethene | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.20 |
| 1,1-Dichloroethane | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1-Dichloroethane | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.20 |
| Methyl t-Butyl Ether | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Methyl t-Butyl Ether | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.18 |
| Vinyl Acetate | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Vinyl Acetate | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.18 |
| 1,1-Dichloroethene | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1-Dichloroethene | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.20 |
| 2-Butanone | 31-OCT-08 12:20 | | 0.24 | ppb v/v | | 1 | 0.05 |
| 2-Butanone | 31-OCT-08 12:20 | | 0.71 | µg/m³ | | 1 | 0.15 |
| Ethyl Acetate | 31-OCT-08 12:20 | | 0.44 | ppb v/v | | 1 | 0.05 |
| Ethyl Acetate | 31-OCT-08 12:20 | | 1.6 | µg/m³ | | 1 | 0.18 |
| Hexane | 31-OCT-08 12:20 | | 0.57 | ppb v/v | | 1 | 0.05 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S089Y01G

Date Printed.....: 04-NOV-08 12:47
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06229
DCL Report Group..: 08I-1074-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 31-OCT-08 12:20 | | 2.0 | µg/m³ | | 1 | 0.18 |
| Chloroform | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Chloroform | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.24 |
| 1,1,1-Trichloroethane | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1,1-Trichloroethane | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.27 |
| Carbon Tetrachloride | 31-OCT-08 12:20 | | 0.080 | ppb v/v | | 1 | 0.05 |
| Carbon Tetrachloride | 31-OCT-08 12:20 | | 0.50 | µg/m³ | | 1 | 0.31 |
| Benzene | 31-OCT-08 12:20 | | 0.38 | ppb v/v | | 1 | 0.05 |
| Benzene | 31-OCT-08 12:20 | | 1.2 | µg/m³ | | 1 | 0.16 |
| Tetrahydrofuran | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Tetrahydrofuran | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.15 |
| 1,2-Dichloroethane | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dichloroethane | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.20 |
| Cyclohexane | 31-OCT-08 12:20 | | 0.17 | ppb v/v | | 1 | 0.05 |
| Cyclohexane | 31-OCT-08 12:20 | | 0.59 | µg/m³ | | 1 | 0.17 |
| Trichloroethene | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Trichloroethene | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.27 |
| 1,2-Dichloropropane | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dichloropropane | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.23 |
| Bromodichloromethane | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Bromodichloromethane | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.33 |
| Heptane | 31-OCT-08 12:20 | | 0.26 | ppb v/v | | 1 | 0.05 |
| Heptane | 31-OCT-08 12:20 | | 1.0 | µg/m³ | | 1 | 0.20 |
| cis-1,3-Dichloropropene | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| cis-1,3-Dichloropropene | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.23 |
| 4-Methyl-2-Pentanone | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| 4-Methyl-2-Pentanone | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.20 |
| Toluene | 31-OCT-08 12:20 | | 0.52 | ppb v/v | | 1 | 0.05 |
| Toluene | 31-OCT-08 12:20 | | 2.0 | µg/m³ | | 1 | 0.19 |
| trans-1,3-Dichloropropene | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| trans-1,3-Dichloropropene | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.23 |
| 1,1,2-Trichloroethane | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1,2-Trichloroethane | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.27 |
| Tetrachloroethene | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Tetrachloroethene | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.34 |
| 2-Hexanone | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| 2-Hexanone | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.20 |
| Dibromochloromethane | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Dibromochloromethane | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.42 |
| 1,2-Dibromoethane | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dibromoethane | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.38 |
| Chlorobenzene | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Chlorobenzene | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.23 |
| Ethylbenzene | 31-OCT-08 12:20 | | 0.10 | ppb v/v | | 1 | 0.05 |
| Ethylbenzene | 31-OCT-08 12:20 | | 0.45 | µg/m³ | | 1 | 0.22 |
| m,p-Xylene | 31-OCT-08 12:20 | | 0.34 | ppb v/v | | 1 | 0.05 |
| m,p-Xylene | 31-OCT-08 12:20 | | 1.5 | µg/m³ | | 1 | 0.22 |
| o-Xylene | 31-OCT-08 12:20 | | 0.097 | ppb v/v | | 1 | 0.05 |
| o-Xylene | 31-OCT-08 12:20 | | 0.42 | µg/m³ | | 1 | 0.22 |
| Styrene | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Styrene | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.21 |
| Bromoform | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Bromoform | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.51 |
| 1,1,2,2-Tetrachloroethane | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1,2,2-Tetrachloroethane | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.34 |
| Benzyl Chloride | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Benzyl Chloride | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.26 |
| 4-Ethyl toluene | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S089Y01G

Date Printed.....: 04-NOV-08 12:47
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06229
DCL Report Group..: 08I-1074-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.25 |
| 1,3,5-Trimethylbenzene | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| 1,3,5-Trimethylbenzene | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.25 |
| 1,2,4-Trimethylbenzene | 31-OCT-08 12:20 | | 0.12 | ppb v/v | | 1 | 0.05 |
| 1,2,4-Trimethylbenzene | 31-OCT-08 12:20 | | 0.60 | µg/m³ | | 1 | 0.25 |
| 1,3-Dichlorobenzene | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| 1,3-Dichlorobenzene | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.30 |
| 1,4-Dichlorobenzene | 31-OCT-08 12:20 | | 0.056 | ppb v/v | | 1 | 0.05 |
| 1,4-Dichlorobenzene | 31-OCT-08 12:20 | | 0.34 | µg/m³ | | 1 | 0.30 |
| 1,2-Dichlorobenzene | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dichlorobenzene | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.30 |
| 1,2,4-Trichlorobenzene | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2,4-Trichlorobenzene | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.37 |
| Hexachlorobutadiene | 31-OCT-08 12:20 | | ND | ppb v/v | | 1 | 0.05 |
| Hexachlorobutadiene | 31-OCT-08 12:20 | | ND | µg/m³ | | 1 | 0.53 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
11040809460459
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S089Y01H

Date Printed.....: 04-NOV-08 09:46

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 20405.016.003.0121.00
Sampling Site.....: Behr PRP Voc Plume
Release Number.....: 20405.016.003.0121.00

Date Received.....: 27-OCT-08 00:00

Client Sample Name: Non-Responsive
DCL Sample Name...: 08I06230
DCL Report Group..: 08I-1074-02

Matrix.....: AIR
Date Sampled.....: 23-OCT-08 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G089Y00Y
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 30-OCT-08 14:43 | 0.432 | ND | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 30-OCT-08 14:43 | 2.1 | ND | µg/m³ | | 1 | 2.5 |
| Chloromethane | 30-OCT-08 14:43 | 0.405 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 30-OCT-08 14:43 | 0.84 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 30-OCT-08 14:43 | 0.409 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 30-OCT-08 14:43 | 2.9 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 30-OCT-08 14:43 | 0.443 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 30-OCT-08 14:43 | 1.1 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 30-OCT-08 14:43 | 0.338 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 30-OCT-08 14:43 | 0.75 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 30-OCT-08 14:43 | 0.326 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 30-OCT-08 14:43 | 1.3 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 30-OCT-08 14:43 | 0.267 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 30-OCT-08 14:43 | 0.70 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 30-OCT-08 14:43 | 0.384 | ND | ppb v/v | | 1 | 0.5 |
| Freon 11 | 30-OCT-08 14:43 | 2.2 | ND | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 30-OCT-08 14:43 | 0.387 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 30-OCT-08 14:43 | 1.5 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 30-OCT-08 14:43 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 30-OCT-08 14:43 | 1.2 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 30-OCT-08 14:43 | 0.369 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 30-OCT-08 14:43 | 2.8 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 30-OCT-08 14:43 | 0.195 | 6.1 | ppb v/v | | 1 | 0.5 |
| Acetone | 30-OCT-08 14:43 | 0.46 | 15. | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 30-OCT-08 14:43 | 0.339 | 0.47 J | ppb v/v | J | 1 | 0.5 |
| Methylene Chloride | 30-OCT-08 14:43 | 1.2 | 1.6 J | µg/m³ | J | 1 | 1.7 |
| trans-1,2-Dichloroethene | 30-OCT-08 14:43 | 0.437 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 30-OCT-08 14:43 | 1.7 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 30-OCT-08 14:43 | 0.355 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 30-OCT-08 14:43 | 1.4 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 30-OCT-08 14:43 | 0.255 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 30-OCT-08 14:43 | 0.92 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 30-OCT-08 14:43 | 0.222 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 30-OCT-08 14:43 | 0.78 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 30-OCT-08 14:43 | 0.390 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 30-OCT-08 14:43 | 1.5 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 30-OCT-08 14:43 | 0.248 | 0.41 J | ppb v/v | J | 1 | 0.5 |
| 2-Butanone | 30-OCT-08 14:43 | 0.73 | 1.2 J | µg/m³ | J | 1 | 1.5 |
| Ethyl Acetate | 30-OCT-08 14:43 | 0.261 | ND | ppb v/v | | 1 | 0.5 |
| Ethyl Acetate | 30-OCT-08 14:43 | 0.94 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 30-OCT-08 14:43 | 0.287 | 1.3 | ppb v/v | | 1 | 0.5 |

LB 12/5/08

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
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S089Y01H

Date Printed.....: 04-NOV-08 09:46
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06230
DCL Report Group..: 08I-1074-02

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 30-OCT-08 14:43 | 1.0 | 4.5 | µg/m³ | | 1 | 1.8 |
| Chloroform | 30-OCT-08 14:43 | 0.350 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 30-OCT-08 14:43 | 1.7 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 30-OCT-08 14:43 | 0.321 | 5.7 | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 30-OCT-08 14:43 | 1.8 | 31. | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 30-OCT-08 14:43 | 0.281 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 30-OCT-08 14:43 | 1.8 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 30-OCT-08 14:43 | 0.314 | ND | ppb v/v | | 1 | 0.5 |
| Benzene | 30-OCT-08 14:43 | 1.0 | ND | µg/m³ | | 1 | 1.6 |
| Tetrahydrofuran | 30-OCT-08 14:43 | 0.350 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 30-OCT-08 14:43 | 1.0 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 30-OCT-08 14:43 | 0.297 | 0.59 | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 30-OCT-08 14:43 | 1.2 | 2.4 | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 30-OCT-08 14:43 | 0.359 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 30-OCT-08 14:43 | 1.2 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 30-OCT-08 14:43 | 0.291 | ND | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 30-OCT-08 14:43 | 1.6 | ND | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 30-OCT-08 14:43 | 0.318 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 30-OCT-08 14:43 | 1.5 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 30-OCT-08 14:43 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 30-OCT-08 14:43 | 1.5 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 30-OCT-08 14:43 | 0.302 | 0.92 J | ppb v/v | | 1 | 0.5 |
| Heptane | 30-OCT-08 14:43 | 1.2 | 3.8 J | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 30-OCT-08 14:43 | 0.289 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 30-OCT-08 14:43 | 1.3 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 30-OCT-08 14:43 | 0.212 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 30-OCT-08 14:43 | 0.87 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 30-OCT-08 14:43 | 0.279 | 1.0 | ppb v/v | | 1 | 0.5 |
| Toluene | 30-OCT-08 14:43 | 1.1 | 3.9 | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 30-OCT-08 14:43 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 30-OCT-08 14:43 | 1.0 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 30-OCT-08 14:43 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 30-OCT-08 14:43 | 1.2 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 30-OCT-08 14:43 | 0.350 | 1.1 | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 30-OCT-08 14:43 | 2.4 | 7.2 | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 30-OCT-08 14:43 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 30-OCT-08 14:43 | 1.4 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 30-OCT-08 14:43 | 0.288 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 30-OCT-08 14:43 | 2.4 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 30-OCT-08 14:43 | 0.315 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 30-OCT-08 14:43 | 2.4 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 30-OCT-08 14:43 | 0.270 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 30-OCT-08 14:43 | 1.2 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 30-OCT-08 14:43 | 0.307 | 0.55 | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 30-OCT-08 14:43 | 1.3 | 2.4 | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 30-OCT-08 14:43 | 0.520 | 0.74 J | ppb v/v | J | 1 | 1.0 |
| m,p-Xylene | 30-OCT-08 14:43 | 2.3 | 3.2 J | µg/m³ | J | 1 | 4.3 |
| o-Xylene | 30-OCT-08 14:43 | 0.262 | 0.37 J | ppb v/v | J | 1 | 0.5 |
| o-Xylene | 30-OCT-08 14:43 | 1.1 | 1.6 J | µg/m³ | J | 1 | 2.2 |
| Styrene | 30-OCT-08 14:43 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 30-OCT-08 14:43 | 0.97 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 30-OCT-08 14:43 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 30-OCT-08 14:43 | 2.3 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 30-OCT-08 14:43 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 30-OCT-08 14:43 | 1.7 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 30-OCT-08 14:43 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 30-OCT-08 14:43 | 1.3 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 30-OCT-08 14:43 | 0.183 | ND | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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S089Y01H

Date Printed.....: 04-NOV-08 09:46
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **08I06230**
DCL Report Group..: **08I-1074-02**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 30-OCT-08 14:43 | 0.90 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 30-OCT-08 14:43 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 30-OCT-08 14:43 | 1.2 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 30-OCT-08 14:43 | 0.224 | 0.53 | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 30-OCT-08 14:43 | 1.1 | 2.6 | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 30-OCT-08 14:43 | 0.236 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 30-OCT-08 14:43 | 1.4 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 30-OCT-08 14:43 | 0.303 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 30-OCT-08 14:43 | 1.8 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 30-OCT-08 14:43 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 30-OCT-08 14:43 | 1.3 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 30-OCT-08 14:43 | 0.361 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 30-OCT-08 14:43 | 2.7 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 30-OCT-08 14:43 | 0.241 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 30-OCT-08 14:43 | 2.6 | ND | µg/m³ | | 1 | 5.3 |

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S089Y01J

Date Printed.....: 04-NOV-08 09:46

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 20405.016.003.0121.00
Sampling Site.....: Behr PRP Voc Plume
Release Number.....: 20405.016.003.0121.00

Date Received.....: 27-OCT-08 00:00

Client Sample Name: Non-Responsive
DCL Sample Name...: 08106231
DCL Report Group..: 08I-1074-02

Matrix.....: AIR
Date Sampled.....: 23-OCT-08 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G089Y00Y
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 30-OCT-08 16:01 | 0.432 | 0.60 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 30-OCT-08 16:01 | 2.1 | 2.9 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 30-OCT-08 16:01 | 0.405 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 30-OCT-08 16:01 | 0.84 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 30-OCT-08 16:01 | 0.409 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 30-OCT-08 16:01 | 2.9 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 30-OCT-08 16:01 | 0.443 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 30-OCT-08 16:01 | 1.1 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 30-OCT-08 16:01 | 0.338 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 30-OCT-08 16:01 | 0.75 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 30-OCT-08 16:01 | 0.326 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 30-OCT-08 16:01 | 1.3 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 30-OCT-08 16:01 | 0.267 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 30-OCT-08 16:01 | 0.70 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 30-OCT-08 16:01 | 0.384 | ND | ppb v/v | | 1 | 0.5 |
| Freon 11 | 30-OCT-08 16:01 | 2.2 | ND | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 30-OCT-08 16:01 | 0.387 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 30-OCT-08 16:01 | 1.5 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 30-OCT-08 16:01 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 30-OCT-08 16:01 | 1.2 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 30-OCT-08 16:01 | 0.369 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 30-OCT-08 16:01 | 2.8 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 30-OCT-08 16:01 | 0.195 | 8.3 | ppb v/v | | 1 | 0.5 |
| Acetone | 30-OCT-08 16:01 | 0.46 | 20. | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 30-OCT-08 16:01 | 0.339 | ND | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 30-OCT-08 16:01 | 1.2 | ND | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 30-OCT-08 16:01 | 0.437 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 30-OCT-08 16:01 | 1.7 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 30-OCT-08 16:01 | 0.355 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 30-OCT-08 16:01 | 1.4 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 30-OCT-08 16:01 | 0.255 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 30-OCT-08 16:01 | 0.92 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 30-OCT-08 16:01 | 0.222 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 30-OCT-08 16:01 | 0.78 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 30-OCT-08 16:01 | 0.390 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 30-OCT-08 16:01 | 1.5 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 30-OCT-08 16:01 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 30-OCT-08 16:01 | 0.73 | ND | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 30-OCT-08 16:01 | 0.261 | 0.29 J | ppb v/v | J | 1 | 0.5 |
| Ethyl Acetate | 30-OCT-08 16:01 | 0.94 | 1.0 J | µg/m³ | J | 1 | 1.8 |
| Hexane | 30-OCT-08 16:01 | 0.287 | 1.2 | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
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SAMPLE ANALYSIS DATA SHEET

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S089Y01J

Date Printed.....: 04-NOV-08 09:46
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06231
DCL Report Group..: 08I-1074-02

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 30-OCT-08 16:01 | 1.0 | 4.1 | µg/m³ | | 1 | 1.8 |
| Chloroform | 30-OCT-08 16:01 | 0.350 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 30-OCT-08 16:01 | 1.7 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 30-OCT-08 16:01 | 0.321 | 0.69 | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 30-OCT-08 16:01 | 1.8 | 3.8 | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 30-OCT-08 16:01 | 0.281 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 30-OCT-08 16:01 | 1.8 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 30-OCT-08 16:01 | 0.314 | 0.36 J | ppb v/v | J | 1 | 0.5 |
| Benzene | 30-OCT-08 16:01 | 1.0 | 1.1 J | µg/m³ | J | 1 | 1.6 |
| Tetrahydrofuran | 30-OCT-08 16:01 | 0.350 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 30-OCT-08 16:01 | 1.0 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 30-OCT-08 16:01 | 0.297 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 30-OCT-08 16:01 | 1.2 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 30-OCT-08 16:01 | 0.359 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 30-OCT-08 16:01 | 1.2 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 30-OCT-08 16:01 | 0.291 | 4.0 | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 30-OCT-08 16:01 | 1.6 | 22. | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 30-OCT-08 16:01 | 0.318 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 30-OCT-08 16:01 | 1.5 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 30-OCT-08 16:01 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 30-OCT-08 16:01 | 1.5 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 30-OCT-08 16:01 | 0.302 | 0.88 J | ppb v/v | | 1 | 0.5 |
| Heptane | 30-OCT-08 16:01 | 1.2 | 3.6 J | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 30-OCT-08 16:01 | 0.289 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 30-OCT-08 16:01 | 1.3 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 30-OCT-08 16:01 | 0.212 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 30-OCT-08 16:01 | 0.87 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 30-OCT-08 16:01 | 0.279 | 1.8 | ppb v/v | | 1 | 0.5 |
| Toluene | 30-OCT-08 16:01 | 1.1 | 6.7 | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 30-OCT-08 16:01 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 30-OCT-08 16:01 | 1.0 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 30-OCT-08 16:01 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 30-OCT-08 16:01 | 1.2 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 30-OCT-08 16:01 | 0.350 | 6.7 | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 30-OCT-08 16:01 | 2.4 | 45. | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 30-OCT-08 16:01 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 30-OCT-08 16:01 | 1.4 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 30-OCT-08 16:01 | 0.288 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 30-OCT-08 16:01 | 2.4 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 30-OCT-08 16:01 | 0.315 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 30-OCT-08 16:01 | 2.4 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 30-OCT-08 16:01 | 0.270 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 30-OCT-08 16:01 | 1.2 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 30-OCT-08 16:01 | 0.307 | 0.53 | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 30-OCT-08 16:01 | 1.3 | 2.3 | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 30-OCT-08 16:01 | 0.520 | 0.87 J | ppb v/v | J | 1 | 1.0 |
| m,p-Xylene | 30-OCT-08 16:01 | 2.3 | 3.8 J | µg/m³ | J | 1 | 4.3 |
| o-Xylene | 30-OCT-08 16:01 | 0.262 | 0.44 J | ppb v/v | J | 1 | 0.5 |
| o-Xylene | 30-OCT-08 16:01 | 1.1 | 1.9 J | µg/m³ | J | 1 | 2.2 |
| Styrene | 30-OCT-08 16:01 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 30-OCT-08 16:01 | 0.97 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 30-OCT-08 16:01 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 30-OCT-08 16:01 | 2.3 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 30-OCT-08 16:01 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 30-OCT-08 16:01 | 1.7 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 30-OCT-08 16:01 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 30-OCT-08 16:01 | 1.3 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 30-OCT-08 16:01 | 0.183 | ND | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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S089Y01J

Date Printed.....: 04-NOV-08 09:46
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06231
DCL Report Group..: 08I-1074-02

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 30-OCT-08 16:01 | 0.90 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 30-OCT-08 16:01 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 30-OCT-08 16:01 | 1.2 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 30-OCT-08 16:01 | 0.224 | 0.61 | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 30-OCT-08 16:01 | 1.1 | 3.0 | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 30-OCT-08 16:01 | 0.236 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 30-OCT-08 16:01 | 1.4 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 30-OCT-08 16:01 | 0.303 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 30-OCT-08 16:01 | 1.8 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 30-OCT-08 16:01 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 30-OCT-08 16:01 | 1.3 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 30-OCT-08 16:01 | 0.361 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 30-OCT-08 16:01 | 2.7 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 30-OCT-08 16:01 | 0.241 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 30-OCT-08 16:01 | 2.6 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Unknown fluorocarbon(4.16) | 30-OCT-08 16:01 | 4.0 | ppb v/v | J | 1 |
| Isobutane(4.28) | 30-OCT-08 16:01 | 7.2 | ppb v/v | J | 1 |
| Butane(4.49) | 30-OCT-08 16:01 | 2.5 | ppb v/v | J | 1 |
| Pentane, 2-methyl-(6.92) | 30-OCT-08 16:01 | 3.1 | ppb v/v | J | 1 |

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FORM A (TYPE I)
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SAMPLE ANALYSIS DATA SHEET

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S089Y01K

Date Printed.....: 04-NOV-08 09:46

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 20405.016.003.0121.00
Sampling Site.....: Behr PRP Voc Plume
Release Number.....: 20405.016.003.0121.00

Date Received.....: 27-OCT-08 00:00

Client Sample Name: Non-Responsive
DCL Sample Name...: 08106232
DCL Report Group..: 08I-1074-02

Matrix.....: AIR
Date Sampled.....: 23-OCT-08 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G089Y00Y
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 30-OCT-08 17:17 | 0.432 | 0.55 J | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 30-OCT-08 17:17 | 2.1 | 2.7 J | µg/m³ | | 1 | 2.5 |
| Chloromethane | 30-OCT-08 17:17 | 0.405 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 30-OCT-08 17:17 | 0.84 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 30-OCT-08 17:17 | 0.409 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 30-OCT-08 17:17 | 2.9 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 30-OCT-08 17:17 | 0.443 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 30-OCT-08 17:17 | 1.1 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 30-OCT-08 17:17 | 0.338 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 30-OCT-08 17:17 | 0.75 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 30-OCT-08 17:17 | 0.326 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 30-OCT-08 17:17 | 1.3 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 30-OCT-08 17:17 | 0.267 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 30-OCT-08 17:17 | 0.70 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 30-OCT-08 17:17 | 0.384 | ND | ppb v/v | | 1 | 0.5 |
| Freon 11 | 30-OCT-08 17:17 | 2.2 | ND | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 30-OCT-08 17:17 | 0.387 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 30-OCT-08 17:17 | 1.5 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 30-OCT-08 17:17 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 30-OCT-08 17:17 | 1.2 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 30-OCT-08 17:17 | 0.369 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 30-OCT-08 17:17 | 2.8 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 30-OCT-08 17:17 | 0.195 | 2.2 | ppb v/v | | 1 | 0.5 |
| Acetone | 30-OCT-08 17:17 | 0.46 | 5.3 | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 30-OCT-08 17:17 | 0.339 | ND | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 30-OCT-08 17:17 | 1.2 | ND | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 30-OCT-08 17:17 | 0.437 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 30-OCT-08 17:17 | 1.7 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 30-OCT-08 17:17 | 0.355 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 30-OCT-08 17:17 | 1.4 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 30-OCT-08 17:17 | 0.255 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 30-OCT-08 17:17 | 0.92 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 30-OCT-08 17:17 | 0.222 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 30-OCT-08 17:17 | 0.78 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 30-OCT-08 17:17 | 0.390 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 30-OCT-08 17:17 | 1.5 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 30-OCT-08 17:17 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 30-OCT-08 17:17 | 0.73 | ND | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 30-OCT-08 17:17 | 0.261 | ND | ppb v/v | | 1 | 0.5 |
| Ethyl Acetate | 30-OCT-08 17:17 | 0.94 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 30-OCT-08 17:17 | 0.287 | 1.7 | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
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S089Y01K

Date Printed.....: 04-NOV-08 09:46
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06232
DCL Report Group..: 08I-1074-02

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 30-OCT-08 17:17 | 1.0 | 5.8 | µg/m³ | | 1 | 1.8 |
| Chloroform | 30-OCT-08 17:17 | 0.350 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 30-OCT-08 17:17 | 1.7 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 30-OCT-08 17:17 | 0.321 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 30-OCT-08 17:17 | 1.8 | ND | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 30-OCT-08 17:17 | 0.281 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 30-OCT-08 17:17 | 1.8 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 30-OCT-08 17:17 | 0.314 | 0.41 J | ppb v/v | J | 1 | 0.5 |
| Benzene | 30-OCT-08 17:17 | 1.0 | 1.3 J | µg/m³ | J | 1 | 1.6 |
| Tetrahydrofuran | 30-OCT-08 17:17 | 0.350 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 30-OCT-08 17:17 | 1.0 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 30-OCT-08 17:17 | 0.297 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 30-OCT-08 17:17 | 1.2 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 30-OCT-08 17:17 | 0.359 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 30-OCT-08 17:17 | 1.2 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 30-OCT-08 17:17 | 0.291 | ND | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 30-OCT-08 17:17 | 1.6 | ND | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 30-OCT-08 17:17 | 0.318 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 30-OCT-08 17:17 | 1.5 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 30-OCT-08 17:17 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 30-OCT-08 17:17 | 1.5 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 30-OCT-08 17:17 | 0.302 | 1.3 J | ppb v/v | | 1 | 0.5 |
| Heptane | 30-OCT-08 17:17 | 1.2 | 5.1 J | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 30-OCT-08 17:17 | 0.289 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 30-OCT-08 17:17 | 1.3 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 30-OCT-08 17:17 | 0.212 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 30-OCT-08 17:17 | 0.87 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 30-OCT-08 17:17 | 0.279 | 1.7 | ppb v/v | | 1 | 0.5 |
| Toluene | 30-OCT-08 17:17 | 1.1 | 6.4 | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 30-OCT-08 17:17 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 30-OCT-08 17:17 | 1.0 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 30-OCT-08 17:17 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 30-OCT-08 17:17 | 1.2 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 30-OCT-08 17:17 | 0.350 | 0.56 | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 30-OCT-08 17:17 | 2.4 | 3.8 | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 30-OCT-08 17:17 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 30-OCT-08 17:17 | 1.4 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 30-OCT-08 17:17 | 0.288 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 30-OCT-08 17:17 | 2.4 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 30-OCT-08 17:17 | 0.315 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 30-OCT-08 17:17 | 2.4 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 30-OCT-08 17:17 | 0.270 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 30-OCT-08 17:17 | 1.2 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 30-OCT-08 17:17 | 0.307 | 0.62 | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 30-OCT-08 17:17 | 1.3 | 2.7 | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 30-OCT-08 17:17 | 0.520 | 0.88 J | ppb v/v | J | 1 | 1.0 |
| m,p-Xylene | 30-OCT-08 17:17 | 2.3 | 3.8 J | µg/m³ | J | 1 | 4.3 |
| o-Xylene | 30-OCT-08 17:17 | 0.262 | 0.39 J | ppb v/v | J | 1 | 0.5 |
| o-Xylene | 30-OCT-08 17:17 | 1.1 | 1.7 J | µg/m³ | J | 1 | 2.2 |
| Styrene | 30-OCT-08 17:17 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 30-OCT-08 17:17 | 0.97 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 30-OCT-08 17:17 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 30-OCT-08 17:17 | 2.3 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 30-OCT-08 17:17 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 30-OCT-08 17:17 | 1.7 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 30-OCT-08 17:17 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 30-OCT-08 17:17 | 1.3 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 30-OCT-08 17:17 | 0.183 | ND | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
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S089Y01K

Date Printed.....: 04-NOV-08 09:46
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06232
DCL Report Group..: 08I-1074-02

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 30-OCT-08 17:17 | 0.90 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 30-OCT-08 17:17 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 30-OCT-08 17:17 | 1.2 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 30-OCT-08 17:17 | 0.224 | 0.61 | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 30-OCT-08 17:17 | 1.1 | 3.0 | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 30-OCT-08 17:17 | 0.236 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 30-OCT-08 17:17 | 1.4 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 30-OCT-08 17:17 | 0.303 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 30-OCT-08 17:17 | 1.8 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 30-OCT-08 17:17 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 30-OCT-08 17:17 | 1.3 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 30-OCT-08 17:17 | 0.361 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 30-OCT-08 17:17 | 2.7 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 30-OCT-08 17:17 | 0.241 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 30-OCT-08 17:17 | 2.6 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Butane(4.50) | 30-OCT-08 17:17 | 2.6 | ppb v/v | J | 1 |
| Butane, 2-methyl-(5.28) | 30-OCT-08 17:17 | 2.6 | ppb v/v | J | 1 |

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**BEHR VOC PLUME SITE**
**DAYTON, OHIO**
**DATA VALIDATION REPORT**

**Date:** April 10, 2007
**Laboratory:** DataChem Laboratories, Inc. (DataChem), Salt Lake City, Utah
**Laboratory SDG #/Set ID #:** BEHR/07E-0199-01
**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)
**Weston Analytical Work Order #/TDD #**: 20405.016.003.0121.00/S05-0612-007

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation of air samples collected for the Behr VOC Plume Site that were analyzed for Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) method TO-15. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999.

**VOCs in Air by U.S. EPA Method TO15**

## 1. Samples

The following table summarizes the sample for which this data validation is being conducted.

| Samples | Lab ID | Matrix | Date Collected | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|
| EPA-11-SS | 07E01750 | Air | 03/19/07 | NA | 03/23/07 |

## 2. Holding Times

The sample was analyzed within the required holding time limit of 30 days from sample collection in accordance with method TO-15.

## 3. Instrument Performance Check

The instrument performance check using bromofluorobenzene (BFB) was performed within the 24-hour period for which the samples were analyzed as required for method TO-15. The BFB standard met the ion abundance criteria specified in method TO-15.

## 4. Initial Calibration

The initial calibration had acceptable results. The percent relative standard deviations (%RSD) for all compounds were less than 30 percent except for acetone. The detected result for acetone was flagged "J" as estimated for this discrepancy. The average relative response factors were all greater than 0.05.

## 5. Continuing Calibration

The percent differences (%D) in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent except for acetone, 4-methyl-2-pentanone, and 2-hexanone. For these three compounds, detected results were flagged "J" and the quantitation limits for non-detected results were flagged "UJ" as estimated.

## 6. Blanks

The method blank associated with the sample was free of target compound contamination.

## 7. Surrogates

All 4-bromofluorobenzene surrogate spike recovery for the sample was within the quality control (QC) limits.

## 8. Laboratory Control Sample (LCS)

All LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits of 70 to 130 percent recovery except for propene; 1,2,4-trichlorobenzene; and hexachlorobutadiene which were detected low in the LCS standards. For these three compounds, detected results were flagged "J" and the quantitation limits for non-detected results were flagged "UJ" as estimated.

## 9. Internal Standard Results

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than ±30 seconds from the retention time of the associated continuing calibration standard.

## 10. Target Compound Identification

A spot-check was performed of the mass spectra for detected compounds. The spot-check confirmed compound identification. DataChem appropriately flagged those results detected above the method detection limit but below the quantitation limit as "J" or estimated.

# ATTACHMENT

# DATACHEM LABORATORIES
# RESULTS SUMMARY

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# FORM A (TYPE I)
# SINGLE METHOD ANALYSES

## SAMPLE ANALYSIS DATA SHEET



S072N01C

Date Printed.....: 28-MAR-07 14:48

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: Not Provided
Sampling Site.....: Behr VOC Plume Site
Release Number.....: 055729

Date Received.....: 21-MAR-07 00:00

Client Sample Name: **EPA-11-SS**
DCL Sample Name...: **07E01750**
DCL Report Group..: **07E-0199-01**

Matrix.....: AIR
Date Sampled.....: 19-MAR-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G072V01N
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Propene | 23-MAR-07 01:33 | 0.180 | 0.95 J | ppb v/v | | 1 | 0.5 |
| Propene | 23-MAR-07 01:33 | 0.31 | 1.6 J | µg/m³ | | 1 | 0.86 |
| Dichlorodifluoromethane | 23-MAR-07 01:33 | 0.0669 | 0.65 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 23-MAR-07 01:33 | 0.33 | 3.2 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 23-MAR-07 01:33 | 0.249 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 23-MAR-07 01:33 | 0.51 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 23-MAR-07 01:33 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 23-MAR-07 01:33 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 23-MAR-07 01:33 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 23-MAR-07 01:33 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 23-MAR-07 01:33 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 23-MAR-07 01:33 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 23-MAR-07 01:33 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 23-MAR-07 01:33 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 23-MAR-07 01:33 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 23-MAR-07 01:33 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 23-MAR-07 01:33 | 0.0921 | 1.1 | ppb v/v | | 1 | 0.5 |
| Freon 11 | 23-MAR-07 01:33 | 0.52 | 6.4 | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 23-MAR-07 01:33 | 0.102 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 23-MAR-07 01:33 | 0.40 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 23-MAR-07 01:33 | 0.111 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 23-MAR-07 01:33 | 0.35 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 23-MAR-07 01:33 | 0.0950 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 23-MAR-07 01:33 | 0.73 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 23-MAR-07 01:33 | 0.113 | 5.2 J | ppb v/v | | 1 | 0.5 |
| Acetone | 23-MAR-07 01:33 | 0.27 | 12. J | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 23-MAR-07 01:33 | 0.168 | ND | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 23-MAR-07 01:33 | 0.58 | ND | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 23-MAR-07 01:33 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 23-MAR-07 01:33 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 23-MAR-07 01:33 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 23-MAR-07 01:33 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 23-MAR-07 01:33 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 23-MAR-07 01:33 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 23-MAR-07 01:33 | 0.133 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 23-MAR-07 01:33 | 0.47 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 23-MAR-07 01:33 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 23-MAR-07 01:33 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 23-MAR-07 01:33 | 0.182 | 4.0 | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 23-MAR-07 01:33 | 0.54 | 12. | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 23-MAR-07 01:33 | 0.273 | 0.49 | ppb v/v | J | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S072N01C

Date Printed.....: 28-MAR-07 14:48
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E01750**
DCL Report Group..: **07E-0199-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 23-MAR-07 01:33 | 0.98 | 1.7 | µg/m³ | J | 1 | 1.8 |
| Hexane | 23-MAR-07 01:33 | 0.121 | 0.33 | ppb v/v | J | 1 | 0.5 |
| Hexane | 23-MAR-07 01:33 | 0.43 | 1.1 | µg/m³ | J | 1 | 1.8 |
| Chloroform | 23-MAR-07 01:33 | 0.115 | 3.9 | ppb v/v | | 1 | 0.5 |
| Chloroform | 23-MAR-07 01:33 | 0.56 | 19. | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 23-MAR-07 01:33 | 0.0725 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 23-MAR-07 01:33 | 0.40 | ND | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 23-MAR-07 01:33 | 0.0657 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 23-MAR-07 01:33 | 0.41 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 23-MAR-07 01:33 | 0.102 | 0.14 | ppb v/v | J | 1 | 0.5 |
| Benzene | 23-MAR-07 01:33 | 0.33 | 0.44 | µg/m³ | J | 1 | 1.6 |
| Tetrahydrofuran | 23-MAR-07 01:33 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 23-MAR-07 01:33 | 0.67 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 23-MAR-07 01:33 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 23-MAR-07 01:33 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 23-MAR-07 01:33 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 23-MAR-07 01:33 | 0.41 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 23-MAR-07 01:33 | 0.120 | 0.17 | ppb v/v | J | 1 | 0.5 |
| Trichloroethene | 23-MAR-07 01:33 | 0.64 | 0.93 | µg/m³ | J | 1 | 2.7 |
| 1,2-Dichloropropane | 23-MAR-07 01:33 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 23-MAR-07 01:33 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 23-MAR-07 01:33 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 23-MAR-07 01:33 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 23-MAR-07 01:33 | 0.101 | 0.21 | ppb v/v | J | 1 | 0.5 |
| Heptane | 23-MAR-07 01:33 | 0.41 | 0.87 | µg/m³ | J | 1 | 2.0 |
| cis-1,3-Dichloropropene | 23-MAR-07 01:33 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 23-MAR-07 01:33 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 23-MAR-07 01:33 | 0.116 | ND UJ | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 23-MAR-07 01:33 | 0.48 | ND UJ | µg/m³ | | 1 | 2.0 |
| Toluene | 23-MAR-07 01:33 | 0.115 | 0.55 | ppb v/v | | 1 | 0.5 |
| Toluene | 23-MAR-07 01:33 | 0.43 | 2.1 | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 23-MAR-07 01:33 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 23-MAR-07 01:33 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 23-MAR-07 01:33 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 23-MAR-07 01:33 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 23-MAR-07 01:33 | 0.0847 | 0.48 | ppb v/v | J | 1 | 0.5 |
| Tetrachloroethene | 23-MAR-07 01:33 | 0.57 | 3.2 | µg/m³ | J | 1 | 3.4 |
| 2-Hexanone | 23-MAR-07 01:33 | 0.136 | ND UJ | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 23-MAR-07 01:33 | 0.56 | ND UJ | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 23-MAR-07 01:33 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 23-MAR-07 01:33 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 23-MAR-07 01:33 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 23-MAR-07 01:33 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 23-MAR-07 01:33 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 23-MAR-07 01:33 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 23-MAR-07 01:33 | 0.150 | 0.26 | ppb v/v | J | 1 | 0.5 |
| Ethylbenzene | 23-MAR-07 01:33 | 0.65 | 1.1 | µg/m³ | J | 1 | 2.2 |
| m,p-Xylene | 23-MAR-07 01:33 | 0.213 | 0.35 | ppb v/v | J | 1 | 1.0 |
| m,p-Xylene | 23-MAR-07 01:33 | 0.92 | 1.5 | µg/m³ | J | 1 | 4.3 |
| o-Xylene | 23-MAR-07 01:33 | 0.113 | 0.14 | ppb v/v | J | 1 | 0.5 |
| o-Xylene | 23-MAR-07 01:33 | 0.49 | 0.62 | µg/m³ | J | 1 | 2.2 |
| Styrene | 23-MAR-07 01:33 | 0.0748 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 23-MAR-07 01:33 | 0.32 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 23-MAR-07 01:33 | 0.0884 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 23-MAR-07 01:33 | 0.90 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 23-MAR-07 01:33 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 23-MAR-07 01:33 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 23-MAR-07 01:33 | 0.136 | ND | ppb v/v | | 1 | 0.5 |

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# FORM A (TYPE I)
## SINGLE METHOD ANALYSES

## SAMPLE ANALYSIS DATA SHEET



S072N01C

Date Printed.....: 28-MAR-07 14:48
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E01750**
DCL Report Group..: **07E-0199-01**

### Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Benzyl Chloride | 23-MAR-07 01:33 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 23-MAR-07 01:33 | 0.0983 | ND | ppb v/v | | 1 | 0.5 |
| 4-Ethyl toluene | 23-MAR-07 01:33 | 0.48 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 23-MAR-07 01:33 | 0.112 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 23-MAR-07 01:33 | 0.55 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 23-MAR-07 01:33 | 0.117 | 0.27 | ppb v/v | J | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 23-MAR-07 01:33 | 0.58 | 1.3 | µg/m³ | J | 1 | 2.5 |
| 1,3-Dichlorobenzene | 23-MAR-07 01:33 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 23-MAR-07 01:33 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 23-MAR-07 01:33 | 0.0987 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 23-MAR-07 01:33 | 0.59 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 23-MAR-07 01:33 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 23-MAR-07 01:33 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 23-MAR-07 01:33 | 0.115 | ND UJ | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 23-MAR-07 01:33 | 0.85 | ND UJ | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 23-MAR-07 01:33 | 0.119 | ND UJ | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 23-MAR-07 01:33 | 1.3 | ND UJ | µg/m³ | | 1 | 5.3 |

### Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Ethane, 1-chloro-1,1-difluoro-(4.39) | 23-MAR-07 01:33 | 55. | ppb v/v | J | 1 |
| Isobutane + Unk. Fluorocarbon(4.53) | 23-MAR-07 01:33 | 4.9 | ppb v/v | J | 1 |
| Unkown Fluorocarbon(4.78) | 23-MAR-07 01:33 | 2.3 | ppb v/v | J | 1 |
| Ethanol(5.26) | 23-MAR-07 01:33 | 17. | ppb v/v | J | 1 |
| Unkown Fluorocarbon(5.46) | 23-MAR-07 01:33 | 2.2 | ppb v/v | J | 1 |
| Unkown Fluorocarbon(8.94) | 23-MAR-07 01:33 | 2.1 | ppb v/v | J | 1 |

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**BEHR VOC PLUME SITE**
**DAYTON, OHIO**
**DATA VALIDATION REPORT**

**Date:** May 9, 2007
**Laboratory:** DataChem Laboratories, Inc. (DataChem), Salt Lake City, Utah
**Laboratory SDG #/Set ID #:** BEHR/07E-0270-01
**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)
**Weston Analytical Work Order #/TDD #**: 20405.016.003.0121.00/S05-0612-007

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation of air samples collected for the Behr VOC Plume Site that were analyzed for Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) method TO-15. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999.

**VOCs in Air by U.S. EPA Method TO15**

## 1. Samples

The following table summarizes the sample for which this data validation is being conducted.

| Samples | Lab ID | Matrix | Date Collected | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|
| EPA-10-SS2 | 07E02039 | Air | 04/10/07 | NA | 04/12/07 |
| EPA-10-IA | 07E02040 | Air | 04/10/07 | NA | 04/12/07 |
| EPA-11-IA | 07E02041 | Air | 04/10/07 | NA | 04/12/07 |

## 2. Holding Times

The sample was analyzed within the required holding time limit of 30 days from sample collection in accordance with method TO-15.

## 3. Instrument Performance Check

The instrument performance check using bromofluorobenzene (BFB) was performed within the 24-hour period for which the samples were analyzed as required for method TO-15. The BFB standard met the ion abundance criteria specified in method TO-15.

## 4. Initial Calibration

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30 percent. The average relative response factors were all greater than 0.05.

## 5. Continuing Calibration

The percent differences (%D) in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent except for the following compounds: methyl tert-butyl ether; m,p-xylenes; o-xylene; bromoform; 1,3,5-trimethylbenzene; 1,2,4-trimethylbenzene; and hexachlorobutadiene. For these compounds, detected results were flagged "J" and the quantitation limits of non-detected results were flagged "UJ" as estimated for this discrepancy.

## 6. Blanks

The method blank associated with the sample was free of target compound contamination.

## 7. Surrogates

The 4-bromofluorobenzene surrogate spike recovery in the sample was within the quality control (QC) limits.

## 8. Laboratory Control Sample (LCS)

All LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits of 70 to 130 percent recovery.

## 9. Internal Standard Results

The internal standard area counts in the samples were within -50 percent to +100 percent of the area counts of the associated continuing calibration standard. The retention time of the internal standards did not vary more than ±30 seconds from the retention time of the associated continuing calibration standard.

## 10. Target Compound Identification

A spot-check was performed of the mass spectra for detected compounds. The spot-check confirmed compound identification. DataChem appropriately flagged those results

detected above the method detection limit but below the quantitation limit as “J” or estimated.

# ATTACHMENT

## DATACHEM LABORATORIES
## RESULTS SUMMARY

DATA CHEM LABORATORIES
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# FORM A (TYPE I)
## SINGLE METHOD ANALYSES

## SAMPLE ANALYSIS DATA SHEET



S073C01R

Date Printed.....: 19-APR-07 10:49

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 0055729
Sampling Site.....: Behr VOC Plume Site
Release Number.....: 0055729

Date Received.....: 12-APR-07 00:00

Client Sample Name: **EPA-10-SS2|108010**
DCL Sample Name...: **07E02039**
DCL Report Group..: **07E-0270-01**

Matrix.....: AIR
Date Sampled.....: 10-APR-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G073J003
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Propene | 12-APR-07 12:18 | 0.180 | 4.7 | ppb v/v | | 1 | 0.5 |
| Propene | 12-APR-07 12:18 | 0.31 | 8.0 | µg/m³ | | 1 | 0.86 |
| Dichlorodifluoromethane | 12-APR-07 12:18 | 0.0669 | 0.84 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 12-APR-07 12:18 | 0.33 | 4.2 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 12-APR-07 12:18 | 0.249 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 12-APR-07 12:18 | 0.51 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 12-APR-07 12:18 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 12-APR-07 12:18 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 12-APR-07 12:18 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 12-APR-07 12:18 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 12-APR-07 12:18 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 12-APR-07 12:18 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 12-APR-07 12:18 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 12-APR-07 12:18 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 12-APR-07 12:18 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 12-APR-07 12:18 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 12-APR-07 12:18 | 0.0921 | 0.41 | ppb v/v | J | 1 | 0.5 |
| Freon 11 | 12-APR-07 12:18 | 0.52 | 2.3 | µg/m³ | J | 1 | 2.8 |
| cis-1,2-Dichloroethene | 12-APR-07 12:18 | 1.0 | 52. | ppb v/v | | 10 | 5.0 |
| cis-1,2-Dichloroethene | 12-APR-07 12:18 | 4.0 | 210 | µg/m³ | | 10 | 20. |
| Carbon Disulfide | 12-APR-07 12:18 | 0.111 | 1.0 | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 12-APR-07 12:18 | 0.35 | 3.2 | µg/m³ | | 1 | 1.6 |
| Freon 113 | 12-APR-07 12:18 | 0.0950 | 0.42 | ppb v/v | J | 1 | 0.5 |
| Freon 113 | 12-APR-07 12:18 | 0.73 | 3.2 | µg/m³ | J | 1 | 3.8 |
| Acetone | 12-APR-07 12:18 | 0.113 | 10. | ppb v/v | | 1 | 0.5 |
| Acetone | 12-APR-07 12:18 | 0.27 | 24. | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 12-APR-07 12:18 | 0.168 | ND | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 12-APR-07 12:18 | 0.58 | ND | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 12-APR-07 12:18 | 0.118 | 4.3 | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 12-APR-07 12:18 | 0.47 | 17. | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 12-APR-07 12:18 | 0.116 | 9.9 | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 12-APR-07 12:18 | 0.47 | 40. | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 12-APR-07 12:18 | 0.147 UJ | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 12-APR-07 12:18 | 0.53 UJ | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 12-APR-07 12:18 | 0.133 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 12-APR-07 12:18 | 0.47 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 12-APR-07 12:18 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 12-APR-07 12:18 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 12-APR-07 12:18 | 0.182 | 3.4 | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 12-APR-07 12:18 | 0.54 | 9.9 | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 12-APR-07 12:18 | 0.273 | 3.0 | ppb v/v | | 1 | 0.5 |

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JH 5/9/07

DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S073C01R

Date Printed.....: 19-APR-07 10:49
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E02039**
DCL Report Group..: **07E-0270-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 12-APR-07 12:18 | 0.98 | 11. | µg/m³ | | 1 | 1.8 |
| Hexane | 12-APR-07 12:18 | 0.121 | 4.4 | ppb v/v | | 1 | 0.5 |
| Hexane | 12-APR-07 12:18 | 0.43 | 16. | µg/m³ | | 1 | 1.8 |
| Chloroform | 12-APR-07 12:18 | 0.115 | 0.94 | ppb v/v | | 1 | 0.5 |
| Chloroform | 12-APR-07 12:18 | 0.56 | 4.6 | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 12-APR-07 12:18 | 0.0725 | 10. | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 12-APR-07 12:18 | 0.40 | 56. | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 12-APR-07 12:18 | 0.0657 | 0.17 | ppb v/v | J | 1 | 0.5 |
| Carbon Tetrachloride | 12-APR-07 12:18 | 0.41 | 1.1 | µg/m³ | J | 1 | 3.1 |
| Benzene | 12-APR-07 12:18 | 0.102 | 3.1 | ppb v/v | | 1 | 0.5 |
| Benzene | 12-APR-07 12:18 | 0.33 | 10. | µg/m³ | | 1 | 1.6 |
| Tetrahydrofuran | 12-APR-07 12:18 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 12-APR-07 12:18 | 0.67 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 12-APR-07 12:18 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 12-APR-07 12:18 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 12-APR-07 12:18 | 0.120 | 1.8 | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 12-APR-07 12:18 | 0.41 | 6.1 | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 12-APR-07 12:18 | 1.2 | 110 | ppb v/v | | 10 | 5.0 |
| Trichloroethene | 12-APR-07 12:18 | 6.4 | 580 | µg/m³ | | 10 | 27. |
| 1,2-Dichloropropane | 12-APR-07 12:18 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 12-APR-07 12:18 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 12-APR-07 12:18 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 12-APR-07 12:18 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 12-APR-07 12:18 | 0.101 | 3.5 | ppb v/v | | 1 | 0.5 |
| Heptane | 12-APR-07 12:18 | 0.41 | 14. | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 12-APR-07 12:18 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 12-APR-07 12:18 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 12-APR-07 12:18 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 12-APR-07 12:18 | 0.48 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 12-APR-07 12:18 | 0.115 | 6.2 | ppb v/v | | 1 | 0.5 |
| Toluene | 12-APR-07 12:18 | 0.43 | 23. | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 12-APR-07 12:18 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 12-APR-07 12:18 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 12-APR-07 12:18 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 12-APR-07 12:18 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 12-APR-07 12:18 | 0.85 | 170 | ppb v/v | | 10 | 5.0 |
| Tetrachloroethene | 12-APR-07 12:18 | 5.7 | 1200 | µg/m³ | | 10 | 34. |
| 2-Hexanone | 12-APR-07 12:18 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 12-APR-07 12:18 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 12-APR-07 12:18 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 12-APR-07 12:18 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 12-APR-07 12:18 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 12-APR-07 12:18 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 12-APR-07 12:18 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 12-APR-07 12:18 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 12-APR-07 12:18 | 0.150 | 2.7 | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 12-APR-07 12:18 | 0.65 | 12. | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 12-APR-07 12:18 | 0.213 | 4.0 J | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 12-APR-07 12:18 | 0.92 | 17. J | µg/m³ | | 1 | 4.3 |
| o-Xylene | 12-APR-07 12:18 | 0.113 | 1.6 J | ppb v/v | | 1 | 0.5 |
| o-Xylene | 12-APR-07 12:18 | 0.49 | 6.9 J | µg/m³ | | 1 | 2.2 |
| Styrene | 12-APR-07 12:18 | 0.0748 | 0.25 | ppb v/v | J | 1 | 0.5 |
| Styrene | 12-APR-07 12:18 | 0.32 | 1.1 | µg/m³ | J | 1 | 2.1 |
| Bromoform | 12-APR-07 12:18 | 0.0884 | ND UJ | ppb v/v | | 1 | 0.5 |
| Bromoform | 12-APR-07 12:18 | 0.90 | ND UJ | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 12-APR-07 12:18 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 12-APR-07 12:18 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 12-APR-07 12:18 | 0.136 | ND | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S073C01R

Date Printed.....: 19-APR-07 10:49
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E02039**
DCL Report Group..: **07E-0270-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Benzyl Chloride | 12-APR-07 12:18 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 12-APR-07 12:18 | 0.0983 | 0.45 | ppb v/v | J | 1 | 0.5 |
| 4-Ethyl toluene | 12-APR-07 12:18 | 0.48 | 2.2 | µg/m³ | J | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 12-APR-07 12:18 | 0.112 | 0.67 J | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 12-APR-07 12:18 | 0.55 | 3.3 J | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 12-APR-07 12:18 | 0.117 | 2.4 J | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 12-APR-07 12:18 | 0.58 | 12. J | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 12-APR-07 12:18 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 12-APR-07 12:18 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 12-APR-07 12:18 | 0.0987 | 0.27 | ppb v/v | J | 1 | 0.5 |
| 1,4-Dichlorobenzene | 12-APR-07 12:18 | 0.59 | 1.6 | µg/m³ | J | 1 | 3.0 |
| 1,2-Dichlorobenzene | 12-APR-07 12:18 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 12-APR-07 12:18 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 12-APR-07 12:18 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 12-APR-07 12:18 | 0.85 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 12-APR-07 12:18 | 0.119 | ND UJ | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 12-APR-07 12:18 | 1.3 | ND UJ | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Propene, hexafluoro-(4.07) | 12-APR-07 12:18 | 230 | ppb v/v | J | 1 |
| Isobutane(4.64) | 12-APR-07 12:18 | 5.1 | ppb v/v | J | 1 |
| Butane(4.91) | 12-APR-07 12:18 | 8.3 | ppb v/v | J | 1 |
| Ethanol(5.41) | 12-APR-07 12:18 | 18. | ppb v/v | J | 1 |
| Pentane, 2-methyl-(7.68) | 12-APR-07 12:18 | 4.7 | ppb v/v | J | 1 |
| CYCLOHEXANE, METHYL-(11.45) | 12-APR-07 12:18 | 4.5 | ppb v/v | J | 1 |
| Unknown fluorocarbon(11.57) | 12-APR-07 12:18 | 7.6 | ppb v/v | J | 1 |
| Unknown fluorocarbon(12.72) | 12-APR-07 12:18 | 3.8 | ppb v/v | J | 1 |
| Unknown fluorocarbon(13.78) | 12-APR-07 12:18 | 95. | ppb v/v | J | 1 |
| Nonane(15.15) | 12-APR-07 12:18 | 3.8 | ppb v/v | J | 1 |
| Decane(17.00) | 12-APR-07 12:18 | 5.3 | ppb v/v | J | 1 |
| Undecane(18.68) | 12-APR-07 12:18 | 6.4 | ppb v/v | J | 1 |
| Dodecane(20.23) | 12-APR-07 12:18 | 3.7 | ppb v/v | J | 1 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S073C01S

Date Printed.....: 19-APR-07 10:49

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 0055729
Sampling Site.....: Behr VOC Plume Site
Release Number.....: 0055729

Date Received.....: 12-APR-07 00:00

Client Sample Name: **EPA-10-IA|108724**
DCL Sample Name...: **07E02040**
DCL Report Group..: **07E-0270-01**

Matrix.....: AIR
Date Sampled.....: 10-APR-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G073J003
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Propene | 12-APR-07 13:37 | 0.180 | 2.6 | ppb v/v | | 1 | 0.5 |
| Propene | 12-APR-07 13:37 | 0.31 | 4.5 | µg/m³ | | 1 | 0.86 |
| Dichlorodifluoromethane | 12-APR-07 13:37 | 0.0669 | 1.4 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 12-APR-07 13:37 | 0.33 | 6.8 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 12-APR-07 13:37 | 0.249 | 0.54 | ppb v/v | | 1 | 0.5 |
| Chloromethane | 12-APR-07 13:37 | 0.51 | 1.1 | µg/m³ | | 1 | 1.0 |
| Freon 114 | 12-APR-07 13:37 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 12-APR-07 13:37 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 12-APR-07 13:37 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 12-APR-07 13:37 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 12-APR-07 13:37 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 12-APR-07 13:37 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 12-APR-07 13:37 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 12-APR-07 13:37 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 12-APR-07 13:37 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 12-APR-07 13:37 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 12-APR-07 13:37 | 0.0921 | 4.4 | ppb v/v | | 1 | 0.5 |
| Freon 11 | 12-APR-07 13:37 | 0.52 | 25. | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 12-APR-07 13:37 | 0.102 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 12-APR-07 13:37 | 0.40 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 12-APR-07 13:37 | 0.111 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 12-APR-07 13:37 | 0.35 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 12-APR-07 13:37 | 0.0950 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 12-APR-07 13:37 | 0.73 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 12-APR-07 13:37 | 0.113 | 7.1 | ppb v/v | | 1 | 0.5 |
| Acetone | 12-APR-07 13:37 | 0.27 | 17. | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 12-APR-07 13:37 | 0.168 | 0.30 | ppb v/v | J | 1 | 0.5 |
| Methylene Chloride | 12-APR-07 13:37 | 0.58 | 1.0 | µg/m³ | J | 1 | 1.7 |
| trans-1,2-Dichloroethene | 12-APR-07 13:37 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 12-APR-07 13:37 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 12-APR-07 13:37 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 12-APR-07 13:37 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 12-APR-07 13:37 | 0.147 | ND UJ | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 12-APR-07 13:37 | 0.53 | ND UJ | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 12-APR-07 13:37 | 0.133 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 12-APR-07 13:37 | 0.47 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 12-APR-07 13:37 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 12-APR-07 13:37 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 12-APR-07 13:37 | 0.182 | 0.24 | ppb v/v | J | 1 | 0.5 |
| 2-Butanone | 12-APR-07 13:37 | 0.54 | 0.70 | µg/m³ | J | 1 | 1.5 |
| Ethyl Acetate | 12-APR-07 13:37 | 0.273 | ND | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S073C01S

Date Printed.....: 19-APR-07 10:49
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E02040**
DCL Report Group..: **07E-0270-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 12-APR-07 13:37 | 0.98 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 12-APR-07 13:37 | 0.121 | 0.55 | ppb v/v | | 1 | 0.5 |
| Hexane | 12-APR-07 13:37 | 0.43 | 1.9 | µg/m³ | | 1 | 1.8 |
| Chloroform | 12-APR-07 13:37 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 12-APR-07 13:37 | 0.56 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 12-APR-07 13:37 | 0.0725 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 12-APR-07 13:37 | 0.40 | ND | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 12-APR-07 13:37 | 0.0657 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 12-APR-07 13:37 | 0.41 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 12-APR-07 13:37 | 0.102 | 0.50 | ppb v/v | J | 1 | 0.5 |
| Benzene | 12-APR-07 13:37 | 0.33 | 1.6 | µg/m³ | J | 1 | 1.6 |
| Tetrahydrofuran | 12-APR-07 13:37 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 12-APR-07 13:37 | 0.67 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 12-APR-07 13:37 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 12-APR-07 13:37 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 12-APR-07 13:37 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 12-APR-07 13:37 | 0.41 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 12-APR-07 13:37 | 0.120 | 0.20 | ppb v/v | J | 1 | 0.5 |
| Trichloroethene | 12-APR-07 13:37 | 0.64 | 1.1 | µg/m³ | J | 1 | 2.7 |
| 1,2-Dichloropropane | 12-APR-07 13:37 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 12-APR-07 13:37 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 12-APR-07 13:37 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 12-APR-07 13:37 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 12-APR-07 13:37 | 0.101 | 0.26 | ppb v/v | J | 1 | 0.5 |
| Heptane | 12-APR-07 13:37 | 0.41 | 1.1 | µg/m³ | J | 1 | 2.0 |
| cis-1,3-Dichloropropene | 12-APR-07 13:37 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 12-APR-07 13:37 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 12-APR-07 13:37 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 12-APR-07 13:37 | 0.48 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 12-APR-07 13:37 | 0.115 | 1.5 | ppb v/v | | 1 | 0.5 |
| Toluene | 12-APR-07 13:37 | 0.43 | 5.5 | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 12-APR-07 13:37 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 12-APR-07 13:37 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 12-APR-07 13:37 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 12-APR-07 13:37 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 12-APR-07 13:37 | 0.0847 | 0.20 | ppb v/v | J | 1 | 0.5 |
| Tetrachloroethene | 12-APR-07 13:37 | 0.57 | 1.4 | µg/m³ | J | 1 | 3.4 |
| 2-Hexanone | 12-APR-07 13:37 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 12-APR-07 13:37 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 12-APR-07 13:37 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 12-APR-07 13:37 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 12-APR-07 13:37 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 12-APR-07 13:37 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 12-APR-07 13:37 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 12-APR-07 13:37 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 12-APR-07 13:37 | 0.150 | ND | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 12-APR-07 13:37 | 0.65 | ND | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 12-APR-07 13:37 | 0.213 | 0.56 J | ppb v/v | J | 1 | 1.0 |
| m,p-Xylene | 12-APR-07 13:37 | 0.92 | 2.4 J | µg/m³ | J | 1 | 4.3 |
| o-Xylene | 12-APR-07 13:37 | 0.113 | 0.19 J | ppb v/v | J | 1 | 0.5 |
| o-Xylene | 12-APR-07 13:37 | 0.49 | 0.83 J | µg/m³ | J | 1 | 2.2 |
| Styrene | 12-APR-07 13:37 | 0.0748 | 0.94 | ppb v/v | | 1 | 0.5 |
| Styrene | 12-APR-07 13:37 | 0.32 | 4.0 | µg/m³ | | 1 | 2.1 |
| Bromoform | 12-APR-07 13:37 | 0.0884 | ND UJ | ppb v/v | | 1 | 0.5 |
| Bromoform | 12-APR-07 13:37 | 0.90 | ND UJ | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 12-APR-07 13:37 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 12-APR-07 13:37 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 12-APR-07 13:37 | 0.136 | ND | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
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S073C01S

Date Printed.....: 19-APR-07 10:49
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E02040**
DCL Report Group..: **07E-0270-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Benzyl Chloride | 12-APR-07 13:37 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 12-APR-07 13:37 | 0.0983 | ND | ppb v/v | | 1 | 0.5 |
| 4-Ethyl toluene | 12-APR-07 13:37 | 0.48 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 12-APR-07 13:37 | 0.112 | ND UJ | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 12-APR-07 13:37 | 0.55 | ND UJ | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 12-APR-07 13:37 | 0.117 | 0.16 J | ppb v/v | J | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 12-APR-07 13:37 | 0.58 | 0.76 J | µg/m³ | J | 1 | 2.5 |
| 1,3-Dichlorobenzene | 12-APR-07 13:37 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 12-APR-07 13:37 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 12-APR-07 13:37 | 0.0987 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 12-APR-07 13:37 | 0.59 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 12-APR-07 13:37 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 12-APR-07 13:37 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 12-APR-07 13:37 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 12-APR-07 13:37 | 0.85 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 12-APR-07 13:37 | 0.119 | ND UJ | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 12-APR-07 13:37 | 1.3 | ND UJ | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Ethanol(5.47) | 12-APR-07 13:37 | 6.7 | ppb v/v | J | 1 |
| Isopropyl Alcohol(6.08) | 12-APR-07 13:37 | 3.5 | ppb v/v | J | 1 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S073C01T

Date Printed.....: 19-APR-07 10:49

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 0055729
Sampling Site.....: Behr VOC Plume Site
Release Number.....: 0055729

Date Received.....: 12-APR-07 00:00

Client Sample Name: **EPA-11-IA|108807**
DCL Sample Name...: **07E02041**
DCL Report Group..: **07E-0270-01**

Matrix.....: AIR
Date Sampled.....: 10-APR-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G073J003
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Propene | 12-APR-07 14:14 | 0.180 | 1.1 | ppb v/v | | 1 | 0.5 |
| Propene | 12-APR-07 14:14 | 0.31 | 1.9 | µg/m³ | | 1 | 0.86 |
| Dichlorodifluoromethane | 12-APR-07 14:14 | 0.0669 | 0.55 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 12-APR-07 14:14 | 0.33 | 2.7 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 12-APR-07 14:14 | 0.249 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 12-APR-07 14:14 | 0.51 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 12-APR-07 14:14 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 12-APR-07 14:14 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 12-APR-07 14:14 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 12-APR-07 14:14 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 12-APR-07 14:14 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 12-APR-07 14:14 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 12-APR-07 14:14 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 12-APR-07 14:14 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 12-APR-07 14:14 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 12-APR-07 14:14 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 12-APR-07 14:14 | 0.0921 | 0.24 | ppb v/v | J | 1 | 0.5 |
| Freon 11 | 12-APR-07 14:14 | 0.52 | 1.4 | µg/m³ | J | 1 | 2.8 |
| cis-1,2-Dichloroethene | 12-APR-07 14:14 | 0.102 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 12-APR-07 14:14 | 0.40 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 12-APR-07 14:14 | 0.111 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 12-APR-07 14:14 | 0.35 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 12-APR-07 14:14 | 0.0950 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 12-APR-07 14:14 | 0.73 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 12-APR-07 14:14 | 0.113 | 9.3 | ppb v/v | | 1 | 0.5 |
| Acetone | 12-APR-07 14:14 | 0.27 | 22. | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 12-APR-07 14:14 | 0.168 | ND | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 12-APR-07 14:14 | 0.58 | ND | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 12-APR-07 14:14 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 12-APR-07 14:14 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 12-APR-07 14:14 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 12-APR-07 14:14 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 12-APR-07 14:14 | 0.147 | ND UJ | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 12-APR-07 14:14 | 0.53 | ND UJ | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 12-APR-07 14:14 | 0.133 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 12-APR-07 14:14 | 0.47 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 12-APR-07 14:14 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 12-APR-07 14:14 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 12-APR-07 14:14 | 0.182 | ND | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 12-APR-07 14:14 | 0.54 | ND | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 12-APR-07 14:14 | 0.273 | ND | ppb v/v | | 1 | 0.5 |

DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S073C01T

Date Printed.....: 19-APR-07 10:49
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E02041**
DCL Report Group..: **07E-0270-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 12-APR-07 14:14 | 0.98 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 12-APR-07 14:14 | 0.121 | 0.20 | ppb v/v | J | 1 | 0.5 |
| Hexane | 12-APR-07 14:14 | 0.43 | 0.71 | µg/m³ | J | 1 | 1.8 |
| Chloroform | 12-APR-07 14:14 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 12-APR-07 14:14 | 0.56 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 12-APR-07 14:14 | 0.0725 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 12-APR-07 14:14 | 0.40 | ND | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 12-APR-07 14:14 | 0.0657 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 12-APR-07 14:14 | 0.41 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 12-APR-07 14:14 | 0.102 | 0.28 | ppb v/v | J | 1 | 0.5 |
| Benzene | 12-APR-07 14:14 | 0.33 | 0.88 | µg/m³ | J | 1 | 1.6 |
| Tetrahydrofuran | 12-APR-07 14:14 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 12-APR-07 14:14 | 0.67 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 12-APR-07 14:14 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 12-APR-07 14:14 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 12-APR-07 14:14 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 12-APR-07 14:14 | 0.41 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 12-APR-07 14:14 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 12-APR-07 14:14 | 0.64 | ND | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 12-APR-07 14:14 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 12-APR-07 14:14 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 12-APR-07 14:14 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 12-APR-07 14:14 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 12-APR-07 14:14 | 0.101 | 0.17 | ppb v/v | J | 1 | 0.5 |
| Heptane | 12-APR-07 14:14 | 0.41 | 0.70 | µg/m³ | J | 1 | 2.0 |
| cis-1,3-Dichloropropene | 12-APR-07 14:14 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 12-APR-07 14:14 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 12-APR-07 14:14 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 12-APR-07 14:14 | 0.48 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 12-APR-07 14:14 | 0.115 | 1.3 | ppb v/v | | 1 | 0.5 |
| Toluene | 12-APR-07 14:14 | 0.43 | 4.9 | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 12-APR-07 14:14 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 12-APR-07 14:14 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 12-APR-07 14:14 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 12-APR-07 14:14 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 12-APR-07 14:14 | 0.0847 | ND | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 12-APR-07 14:14 | 0.57 | ND | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 12-APR-07 14:14 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 12-APR-07 14:14 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 12-APR-07 14:14 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 12-APR-07 14:14 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 12-APR-07 14:14 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 12-APR-07 14:14 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 12-APR-07 14:14 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 12-APR-07 14:14 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 12-APR-07 14:14 | 0.150 | ND | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 12-APR-07 14:14 | 0.65 | ND | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 12-APR-07 14:14 | 0.213 | 0.26 J | ppb v/v | J | 1 | 1.0 |
| m,p-Xylene | 12-APR-07 14:14 | 0.92 | 1.1 J | µg/m³ | J | 1 | 4.3 |
| o-Xylene | 12-APR-07 14:14 | 0.113 | ND UJ | ppb v/v | | 1 | 0.5 |
| o-Xylene | 12-APR-07 14:14 | 0.49 | ND UJ | µg/m³ | | 1 | 2.2 |
| Styrene | 12-APR-07 14:14 | 0.0748 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 12-APR-07 14:14 | 0.32 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 12-APR-07 14:14 | 0.0884 | ND UJ | ppb v/v | | 1 | 0.5 |
| Bromoform | 12-APR-07 14:14 | 0.90 | ND UJ | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 12-APR-07 14:14 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 12-APR-07 14:14 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 12-APR-07 14:14 | 0.136 | ND | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S073C01T

Date Printed.....: 19-APR-07 10:49
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E02041**
DCL Report Group..: **07E-0270-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Benzyl Chloride | 12-APR-07 14:14 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 12-APR-07 14:14 | 0.0983 | ND | ppb v/v | | 1 | 0.5 |
| 4-Ethyl toluene | 12-APR-07 14:14 | 0.48 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 12-APR-07 14:14 | 0.112 | ND UJ | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 12-APR-07 14:14 | 0.55 | ND UJ | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 12-APR-07 14:14 | 0.117 | ND UJ | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 12-APR-07 14:14 | 0.58 | ND UJ | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 12-APR-07 14:14 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 12-APR-07 14:14 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 12-APR-07 14:14 | 0.0987 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 12-APR-07 14:14 | 0.59 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 12-APR-07 14:14 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 12-APR-07 14:14 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 12-APR-07 14:14 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 12-APR-07 14:14 | 0.85 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 12-APR-07 14:14 | 0.119 | ND UJ | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 12-APR-07 14:14 | 1.3 | ND UJ | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Ethane, 1-chloro-1,1-difluoro-(4.51) | 12-APR-07 14:14 | 23. | ppb v/v | J | 1 |
| Pentane(6.26) | 12-APR-07 14:14 | 5.5 | ppb v/v | J | 1 |

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5/9/07

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**BEHR VOC PLUME SITE**
**DAYTON, OHIO**
**DATA VALIDATION REPORT**

**Date:** August 7, 2007
**Laboratory:** DataChem Laboratories, Inc. (DataChem), Salt Lake City, Utah
**Laboratory SDG #/Set ID #:** BEHR/07E-0634-01
**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)
**Weston Analytical Work Order #/TDD #**: 20405.016.003.0121.00/S05-0612-007

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation of air samples collected for the Behr VOC Plume Site that were analyzed for Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) method TO-15. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999.

**VOCs in Air by U.S. EPA Method TO15**

## 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

| Samples | Lab ID | Matrix | Date Collected | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|
| EPA-10-IA2 | 07E03542 | Air | 07/18/07 | NA | 07/25/07 |
| EPA-10-IA3 | 07E03543 | Air | 07/18/07 | NA | 07/25/07 |

## 2. Holding Times

The samples were analyzed within the required holding time limit of 30 days from sample collection in accordance with method TO-15.

## 3. Instrument Performance Check

The instrument performance check using bromofluorobenzene (BFB) standard met the ion abundance criteria specified in method TO-15.

## 4. Initial Calibration

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30 percent. The average relative response factors were all greater than 0.05.

## 5. Continuing Calibration

The percent differences in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent.

## 6. Blanks

The method blank associated with the samples was free of target compound contamination.

## 7. Surrogates

The 4-bromofluorobenzene surrogate spike recoveries in the samples were within the quality control (QC) limits.

## 8. Laboratory Control Sample (LCS)

The LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits of 70 to 130 percent recovery.

The relative percent difference between the LCS and LCS duplicate samples was greater than the QC limit of 25 for 1,2,4-trichlorobenzene and hexachlorobutadiene. Because these compounds were not detected in the samples, no qualification was applied.

## 9. Internal Standard Results

The internal standard area counts in the samples were within -50 percent to +100 percent of the area counts of the associated continuing calibration standard. The retention time of the internal standards did not vary more than ±30 seconds from the retention time of the associated continuing calibration standard.

## 10. Target Compound Identification

A spot-check was performed of the mass spectra for detected compounds. The spot-check confirmed compound identification. DataChem appropriately flagged those results detected above the method detection limit but below the quantitation limit as “J” or estimated. DataChem also flagged those results detected above the calibration range as “E” indicating that these result should be considered estimated.

# ATTACHMENT

## DATACHEM LABORATORIES
## RESULTS SUMMARY

DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
0727071116036 8
Page 12

S076N00D

Date Printed.....: 27-JUL-07 11:16

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 0055729
Sampling Site.....: Behr Voc Plume PRP
Release Number.....: 0055729

Date Received.....: 20-JUL-07 00:00

Client Sample Name: **EPA-10-IA2**
DCL Sample Name...: **07E03683**
DCL Report Group..: **07E-0634-01**

Matrix.....: AIR
Date Sampled.....: 18-JUL-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G076V003
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 25-JUL-07 18:01 | 0.0669 | 1.4 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 25-JUL-07 18:01 | 0.33 | 6.9 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 25-JUL-07 18:01 | 0.249 | 0.59 | ppb v/v | | 1 | 0.5 |
| Chloromethane | 25-JUL-07 18:01 | 0.51 | 1.2 | µg/m³ | | 1 | 1.0 |
| Freon 114 | 25-JUL-07 18:01 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 25-JUL-07 18:01 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 25-JUL-07 18:01 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 25-JUL-07 18:01 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 25-JUL-07 18:01 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 25-JUL-07 18:01 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 25-JUL-07 18:01 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 25-JUL-07 18:01 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 25-JUL-07 18:01 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 25-JUL-07 18:01 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 25-JUL-07 18:01 | 0.0921 | 3.5 | ppb v/v | | 1 | 0.5 |
| Freon 11 | 25-JUL-07 18:01 | 0.52 | 20. | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 25-JUL-07 18:01 | 0.102 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 25-JUL-07 18:01 | 0.40 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 25-JUL-07 18:01 | 0.111 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 25-JUL-07 18:01 | 0.35 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 25-JUL-07 18:01 | 0.0950 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 25-JUL-07 18:01 | 0.73 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 25-JUL-07 18:01 | 0.113 | 32. | ppb v/v | E | 1 | 0.5 |
| Acetone | 25-JUL-07 18:01 | 0.27 | 75. | µg/m³ | E | 1 | 1.2 |
| Methylene Chloride | 25-JUL-07 18:01 | 0.168 | 1.8 | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 25-JUL-07 18:01 | 0.58 | 6.2 | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 25-JUL-07 18:01 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 25-JUL-07 18:01 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 25-JUL-07 18:01 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 25-JUL-07 18:01 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 25-JUL-07 18:01 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 25-JUL-07 18:01 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 25-JUL-07 18:01 | 0.133 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 25-JUL-07 18:01 | 0.47 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 25-JUL-07 18:01 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 25-JUL-07 18:01 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 25-JUL-07 18:01 | 0.182 | 2.3 | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 25-JUL-07 18:01 | 0.54 | 6.8 | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 25-JUL-07 18:01 | 0.273 | ND | ppb v/v | | 1 | 0.5 |
| Ethyl Acetate | 25-JUL-07 18:01 | 0.98 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 25-JUL-07 18:01 | 0.121 | 0.51 | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S076N00D

Date Printed.....: 27-JUL-07 11:16
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E03683**
DCL Report Group..: **07E-0634-01**

**Analytical Results**

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 25-JUL-07 18:01 | 0.43 | 1.8 | µg/m³ | | 1 | 1.8 |
| Chloroform | 25-JUL-07 18:01 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 25-JUL-07 18:01 | 0.56 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 25-JUL-07 18:01 | 0.0725 | 0.49 | ppb v/v | J | 1 | 0.5 |
| 1,1,1-Trichloroethane | 25-JUL-07 18:01 | 0.40 | 2.7 | µg/m³ | J | 1 | 2.7 |
| Carbon Tetrachloride | 25-JUL-07 18:01 | 0.0657 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 25-JUL-07 18:01 | 0.41 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 25-JUL-07 18:01 | 0.102 | 0.32 | ppb v/v | J | 1 | 0.5 |
| Benzene | 25-JUL-07 18:01 | 0.33 | 1.0 | µg/m³ | J | 1 | 1.6 |
| Tetrahydrofuran | 25-JUL-07 18:01 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 25-JUL-07 18:01 | 0.67 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 25-JUL-07 18:01 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 25-JUL-07 18:01 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 25-JUL-07 18:01 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 25-JUL-07 18:01 | 0.41 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 25-JUL-07 18:01 | 0.120 | 4.3 | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 25-JUL-07 18:01 | 0.64 | 23. | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 25-JUL-07 18:01 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 25-JUL-07 18:01 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 25-JUL-07 18:01 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 25-JUL-07 18:01 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 25-JUL-07 18:01 | 0.101 | 0.42 | ppb v/v | J | 1 | 0.5 |
| Heptane | 25-JUL-07 18:01 | 0.41 | 1.7 | µg/m³ | J | 1 | 2.0 |
| cis-1,3-Dichloropropene | 25-JUL-07 18:01 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 25-JUL-07 18:01 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 25-JUL-07 18:01 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 25-JUL-07 18:01 | 0.48 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 25-JUL-07 18:01 | 0.115 | 8.0 | ppb v/v | | 1 | 0.5 |
| Toluene | 25-JUL-07 18:01 | 0.43 | 30. | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 25-JUL-07 18:01 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 25-JUL-07 18:01 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 25-JUL-07 18:01 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 25-JUL-07 18:01 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 25-JUL-07 18:01 | 0.0847 | 14. | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 25-JUL-07 18:01 | 0.57 | 97. | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 25-JUL-07 18:01 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 25-JUL-07 18:01 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 25-JUL-07 18:01 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 25-JUL-07 18:01 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 25-JUL-07 18:01 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 25-JUL-07 18:01 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 25-JUL-07 18:01 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 25-JUL-07 18:01 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 25-JUL-07 18:01 | 0.150 | 0.37 | ppb v/v | J | 1 | 0.5 |
| Ethylbenzene | 25-JUL-07 18:01 | 0.65 | 1.6 | µg/m³ | J | 1 | 2.2 |
| m,p-Xylene | 25-JUL-07 18:01 | 0.213 | 1.2 | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 25-JUL-07 18:01 | 0.92 | 5.1 | µg/m³ | | 1 | 4.3 |
| o-Xylene | 25-JUL-07 18:01 | 0.113 | 0.30 | ppb v/v | J | 1 | 0.5 |
| o-Xylene | 25-JUL-07 18:01 | 0.49 | 1.3 | µg/m³ | J | 1 | 2.2 |
| Styrene | 25-JUL-07 18:01 | 0.0748 | 0.23 | ppb v/v | J | 1 | 0.5 |
| Styrene | 25-JUL-07 18:01 | 0.32 | 1.0 | µg/m³ | J | 1 | 2.1 |
| Bromoform | 25-JUL-07 18:01 | 0.0884 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 25-JUL-07 18:01 | 0.90 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 25-JUL-07 18:01 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 25-JUL-07 18:01 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 25-JUL-07 18:01 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 25-JUL-07 18:01 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 25-JUL-07 18:01 | 0.0983 | ND | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
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S076N00D

Date Printed.....: 27-JUL-07 11:16
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E03683**
DCL Report Group..: **07E-0634-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 25-JUL-07 18:01 | 0.48 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 25-JUL-07 18:01 | 0.112 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 25-JUL-07 18:01 | 0.55 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 25-JUL-07 18:01 | 0.117 | 0.26 | ppb v/v | J | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 25-JUL-07 18:01 | 0.58 | 1.3 | µg/m³ | J | 1 | 2.5 |
| 1,3-Dichlorobenzene | 25-JUL-07 18:01 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 25-JUL-07 18:01 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 25-JUL-07 18:01 | 0.0987 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 25-JUL-07 18:01 | 0.59 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 25-JUL-07 18:01 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 25-JUL-07 18:01 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 25-JUL-07 18:01 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 25-JUL-07 18:01 | 0.85 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 25-JUL-07 18:01 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 25-JUL-07 18:01 | 1.3 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Propene(4.21) | 25-JUL-07 18:01 | 2.2 | ppb v/v | J | 1 |
| Propane, 1-chloro-2-methyl-(4.54) | 25-JUL-07 18:01 | 5.3 | ppb v/v | J | 1 |
| Ethanol(5.28) | 25-JUL-07 18:01 | 8.2 | ppb v/v | J | 1 |
| Isopropyl Alcohol(5.90) | 25-JUL-07 18:01 | 5.8 | ppb v/v | J | 1 |

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# FORM A (TYPE I)
# SINGLE METHOD ANALYSES

## SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
0727071116036 8
Page 15

S076N00F

Date Printed.....: 27-JUL-07 11:16

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 0055729
Sampling Site.....: Behr Voc Plume PRP
Release Number.....: 0055729

Date Received.....: 20-JUL-07 00:00

Client Sample Name: **EPA-10-IA3**
DCL Sample Name...: **07E03684**
DCL Report Group..: **07E-0634-01**

Matrix.....: AIR
Date Sampled.....: 18-JUL-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G076V003
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 25-JUL-07 19:15 | 0.0669 | 0.73 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 25-JUL-07 19:15 | 0.33 | 3.6 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 25-JUL-07 19:15 | 0.249 | 0.50 | ppb v/v | | 1 | 0.5 |
| Chloromethane | 25-JUL-07 19:15 | 0.51 | 1.0 | µg/m³ | | 1 | 1.0 |
| Freon 114 | 25-JUL-07 19:15 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 25-JUL-07 19:15 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 25-JUL-07 19:15 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 25-JUL-07 19:15 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 25-JUL-07 19:15 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 25-JUL-07 19:15 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 25-JUL-07 19:15 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 25-JUL-07 19:15 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 25-JUL-07 19:15 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 25-JUL-07 19:15 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 25-JUL-07 19:15 | 0.0921 | 0.49 | ppb v/v | J | 1 | 0.5 |
| Freon 11 | 25-JUL-07 19:15 | 0.52 | 2.7 | µg/m³ | J | 1 | 2.8 |
| cis-1,2-Dichloroethene | 25-JUL-07 19:15 | 0.102 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 25-JUL-07 19:15 | 0.40 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 25-JUL-07 19:15 | 0.111 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 25-JUL-07 19:15 | 0.35 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 25-JUL-07 19:15 | 0.0950 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 25-JUL-07 19:15 | 0.73 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 25-JUL-07 19:15 | 0.113 | 9.7 | ppb v/v | | 1 | 0.5 |
| Acetone | 25-JUL-07 19:15 | 0.27 | 23. | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 25-JUL-07 19:15 | 0.168 | 2.9 | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 25-JUL-07 19:15 | 0.58 | 10. | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 25-JUL-07 19:15 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 25-JUL-07 19:15 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 25-JUL-07 19:15 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 25-JUL-07 19:15 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 25-JUL-07 19:15 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 25-JUL-07 19:15 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 25-JUL-07 19:15 | 0.133 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 25-JUL-07 19:15 | 0.47 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 25-JUL-07 19:15 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 25-JUL-07 19:15 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 25-JUL-07 19:15 | 0.182 | 3.5 | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 25-JUL-07 19:15 | 0.54 | 10. | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 25-JUL-07 19:15 | 0.273 | ND | ppb v/v | | 1 | 0.5 |
| Ethyl Acetate | 25-JUL-07 19:15 | 0.98 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 25-JUL-07 19:15 | 0.121 | 0.36 | ppb v/v | J | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S076N00F

Date Printed.....: 27-JUL-07 11:16
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E03684**
DCL Report Group..: **07E-0634-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 25-JUL-07 19:15 | 0.43 | 1.3 | µg/m³ | J | 1 | 1.8 |
| Chloroform | 25-JUL-07 19:15 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 25-JUL-07 19:15 | 0.56 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 25-JUL-07 19:15 | 0.0725 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 25-JUL-07 19:15 | 0.40 | ND | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 25-JUL-07 19:15 | 0.0657 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 25-JUL-07 19:15 | 0.41 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 25-JUL-07 19:15 | 0.102 | 0.22 | ppb v/v | J | 1 | 0.5 |
| Benzene | 25-JUL-07 19:15 | 0.33 | 0.70 | µg/m³ | J | 1 | 1.6 |
| Tetrahydrofuran | 25-JUL-07 19:15 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 25-JUL-07 19:15 | 0.67 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 25-JUL-07 19:15 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 25-JUL-07 19:15 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 25-JUL-07 19:15 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 25-JUL-07 19:15 | 0.41 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 25-JUL-07 19:15 | 0.120 | 1.2 | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 25-JUL-07 19:15 | 0.64 | 6.3 | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 25-JUL-07 19:15 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 25-JUL-07 19:15 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 25-JUL-07 19:15 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 25-JUL-07 19:15 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 25-JUL-07 19:15 | 0.101 | 0.32 | ppb v/v | J | 1 | 0.5 |
| Heptane | 25-JUL-07 19:15 | 0.41 | 1.3 | µg/m³ | J | 1 | 2.0 |
| cis-1,3-Dichloropropene | 25-JUL-07 19:15 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 25-JUL-07 19:15 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 25-JUL-07 19:15 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 25-JUL-07 19:15 | 0.48 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 25-JUL-07 19:15 | 0.115 | 7.3 | ppb v/v | | 1 | 0.5 |
| Toluene | 25-JUL-07 19:15 | 0.43 | 27. | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 25-JUL-07 19:15 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 25-JUL-07 19:15 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 25-JUL-07 19:15 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 25-JUL-07 19:15 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 25-JUL-07 19:15 | 0.0847 | 2.6 | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 25-JUL-07 19:15 | 0.57 | 18. | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 25-JUL-07 19:15 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 25-JUL-07 19:15 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 25-JUL-07 19:15 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 25-JUL-07 19:15 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 25-JUL-07 19:15 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 25-JUL-07 19:15 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 25-JUL-07 19:15 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 25-JUL-07 19:15 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 25-JUL-07 19:15 | 0.150 | 0.47 | ppb v/v | J | 1 | 0.5 |
| Ethylbenzene | 25-JUL-07 19:15 | 0.65 | 2.0 | µg/m³ | J | 1 | 2.2 |
| m,p-Xylene | 25-JUL-07 19:15 | 0.213 | 1.6 | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 25-JUL-07 19:15 | 0.92 | 7.1 | µg/m³ | | 1 | 4.3 |
| o-Xylene | 25-JUL-07 19:15 | 0.113 | 0.37 | ppb v/v | J | 1 | 0.5 |
| o-Xylene | 25-JUL-07 19:15 | 0.49 | 1.6 | µg/m³ | J | 1 | 2.2 |
| Styrene | 25-JUL-07 19:15 | 0.0748 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 25-JUL-07 19:15 | 0.32 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 25-JUL-07 19:15 | 0.0884 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 25-JUL-07 19:15 | 0.90 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 25-JUL-07 19:15 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 25-JUL-07 19:15 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 25-JUL-07 19:15 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 25-JUL-07 19:15 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 25-JUL-07 19:15 | 0.0983 | ND | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S076N00F

Date Printed.....: 27-JUL-07 11:16
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E03684**
DCL Report Group..: **07E-0634-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 25-JUL-07 19:15 | 0.48 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 25-JUL-07 19:15 | 0.112 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 25-JUL-07 19:15 | 0.55 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 25-JUL-07 19:15 | 0.117 | 0.18 | ppb v/v | J | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 25-JUL-07 19:15 | 0.58 | 0.88 | µg/m³ | J | 1 | 2.5 |
| 1,3-Dichlorobenzene | 25-JUL-07 19:15 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 25-JUL-07 19:15 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 25-JUL-07 19:15 | 0.0987 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 25-JUL-07 19:15 | 0.59 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 25-JUL-07 19:15 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 25-JUL-07 19:15 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 25-JUL-07 19:15 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 25-JUL-07 19:15 | 0.85 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 25-JUL-07 19:15 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 25-JUL-07 19:15 | 1.3 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Ethanol(5.27) | 25-JUL-07 19:15 | 4.3 | ppb v/v | J | 1 |
| Isopropyl Alcohol(5.87) | 25-JUL-07 19:15 | 39. | ppb v/v | J | 1 |

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**BEHR VOC PLUME SITE**
**DAYTON, OHIO**
**DATA VALIDATION REPORT**

**Date:** October 4, 2007
**Laboratory:** DataChem Laboratories, Inc. (DataChem), Salt Lake City, Utah
**Laboratory SDG #/Set ID #:** BEHR/07E-0733-01
**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)
**Weston Analytical Work Order #/TDD #**: 20405.016.003.0121.00/S05-0612-007

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation of air samples collected for the Behr VOC Plume Site that were analyzed for Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) method TO-15. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999.

**VOCs in Air by U.S. EPA Method TO15**

## 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

| Samples | Lab ID | Matrix | Date Collected | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|
| EPA-10-IA4 | 07E04216 | Air | 08/14/07 | NA | 08/17/07 |
| EPA-10-IA5 | 07E04217 | Air | 08/14/07 | NA | 08/17/07 |
| EPA-10-IA6 | 07E04218 | Air | 08/14/07 | NA | 08/17/07 |

## 2. Holding Times

The samples were analyzed within the required holding time limit of 30 days from sample collection in accordance with method TO-15.

## 3. Instrument Performance Check

The instrument performance check using bromofluorobenzene (BFB) standard met the ion abundance criteria specified in method TO-15.

## 4. Initial Calibration

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30 percent except for hexachlorobutadiene. The quantitation limits for hexachlorobutadiene were flagged "UJ" as estimated for this discrepancy. The average relative response factors were all greater than 0.05.

## 5. Continuing Calibration

The percent differences in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent except for 1,2,4-trichlorobenzene which had a percent difference of 28 percent. The quantitation limits for 1,2,4-trichlorobenzene were flagged "UJ" as estimated for this discrepancy.

## 6. Blanks

The method blank associated with the samples was free of target compound contamination.

## 7. Surrogates

The 4-bromofluorobenzene surrogate spike recoveries in the samples were within the quality control (QC) limits.

## 8. Laboratory Control Sample (LCS)

The LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits of 70 to 130 percent recovery.

The relative percent difference between the LCS and LCS duplicate samples was greater than the QC limit of 25 for 1,2,4-trichlorobenzene and hexachlorobutadiene. Because these compounds were not detected in the samples, no qualification was applied.

## 9. Internal Standard Results

The internal standard area counts in the samples were within -50 percent to +100 percent of the area counts of the associated continuing calibration standard. The retention time of the internal standards did not vary more than ±30 seconds from the retention time of the associated continuing calibration standard.

## 10. Target Compound Identification

A spot-check was performed of the mass spectra for detected compounds. The spot-check confirmed compound identification. DataChem appropriately flagged those results detected above the method detection limit but below the quantitation limit as "J" or estimated. DataChem also flagged those results detected above the calibration range as "E" indicating that these result should be considered estimated.

# ATTACHMENT

## DATACHEM LABORATORIES
## RESULTS SUMMARY

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
08230709522948
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Date Printed.....: 23-AUG-07 09:52

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 055729
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 055729

Date Received.....: 16-AUG-07 00:00

Client Sample Name: **EPA-10-IA4**
DCL Sample Name...: **07E04216**
DCL Report Group..: **07E-0733-01**

Matrix.....: AIR
Date Sampled.....: 14-AUG-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G077P00G
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 17-AUG-07 14:19 | 0.0669 | 1.0 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 17-AUG-07 14:19 | 0.33 | 5.0 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 17-AUG-07 14:19 | 0.249 | 0.54 | ppb v/v | | 1 | 0.5 |
| Chloromethane | 17-AUG-07 14:19 | 0.51 | 1.1 | µg/m³ | | 1 | 1.0 |
| Freon 114 | 17-AUG-07 14:19 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 17-AUG-07 14:19 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 17-AUG-07 14:19 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 17-AUG-07 14:19 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 17-AUG-07 14:19 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 17-AUG-07 14:19 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 17-AUG-07 14:19 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 17-AUG-07 14:19 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 17-AUG-07 14:19 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 17-AUG-07 14:19 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 17-AUG-07 14:19 | 0.0921 | 1.2 | ppb v/v | | 1 | 0.5 |
| Freon 11 | 17-AUG-07 14:19 | 0.52 | 6.7 | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 17-AUG-07 14:19 | 0.102 | 0.22 | ppb v/v | J | 1 | 0.5 |
| cis-1,2-Dichloroethene | 17-AUG-07 14:19 | 0.40 | 0.87 | µg/m³ | J | 1 | 2.0 |
| Carbon Disulfide | 17-AUG-07 14:19 | 0.111 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 17-AUG-07 14:19 | 0.35 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 17-AUG-07 14:19 | 0.0950 | 0.10 | ppb v/v | J | 1 | 0.5 |
| Freon 113 | 17-AUG-07 14:19 | 0.73 | 0.77 | µg/m³ | J | 1 | 3.8 |
| Acetone | 17-AUG-07 14:19 | 0.113 | 24. | ppb v/v | E | 1 | 0.5 |
| Acetone | 17-AUG-07 14:19 | 0.27 | 57. | µg/m³ | E | 1 | 1.2 |
| Methylene Chloride | 17-AUG-07 14:19 | 0.168 | 1.3 | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 17-AUG-07 14:19 | 0.58 | 4.6 | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 17-AUG-07 14:19 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 17-AUG-07 14:19 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 17-AUG-07 14:19 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 17-AUG-07 14:19 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 17-AUG-07 14:19 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 17-AUG-07 14:19 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 17-AUG-07 14:19 | 0.133 | 0.61 | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 17-AUG-07 14:19 | 0.47 | 2.2 | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 17-AUG-07 14:19 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 17-AUG-07 14:19 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 17-AUG-07 14:19 | 0.182 | 1.9 | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 17-AUG-07 14:19 | 0.54 | 5.7 | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 17-AUG-07 14:19 | 0.273 | ND | ppb v/v | | 1 | 0.5 |
| Ethyl Acetate | 17-AUG-07 14:19 | 0.98 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 17-AUG-07 14:19 | 0.121 | ND | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
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S077H03T

Date Printed.....: 23-AUG-07 09:52
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 07E04216
DCL Report Group..: 07E-0733-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 17-AUG-07 14:19 | 0.43 | ND | µg/m³ | | 1 | 1.8 |
| Chloroform | 17-AUG-07 14:19 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 17-AUG-07 14:19 | 0.56 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 17-AUG-07 14:19 | 0.0725 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 17-AUG-07 14:19 | 0.40 | ND | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 17-AUG-07 14:19 | 0.0657 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 17-AUG-07 14:19 | 0.41 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 17-AUG-07 14:19 | 0.102 | 0.23 | ppb v/v | J | 1 | 0.5 |
| Benzene | 17-AUG-07 14:19 | 0.33 | 0.73 | µg/m³ | J | 1 | 1.6 |
| Tetrahydrofuran | 17-AUG-07 14:19 | 0.227 | 0.84 | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 17-AUG-07 14:19 | 0.67 | 2.5 | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 17-AUG-07 14:19 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 17-AUG-07 14:19 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 17-AUG-07 14:19 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 17-AUG-07 14:19 | 0.41 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 17-AUG-07 14:19 | 0.120 | 7.0 | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 17-AUG-07 14:19 | 0.64 | 37. | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 17-AUG-07 14:19 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 17-AUG-07 14:19 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 17-AUG-07 14:19 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 17-AUG-07 14:19 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 17-AUG-07 14:19 | 0.101 | 1.3 | ppb v/v | | 1 | 0.5 |
| Heptane | 17-AUG-07 14:19 | 0.41 | 5.1 | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 17-AUG-07 14:19 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 17-AUG-07 14:19 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 17-AUG-07 14:19 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 17-AUG-07 14:19 | 0.48 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 17-AUG-07 14:19 | 0.115 | 4.7 | ppb v/v | | 1 | 0.5 |
| Toluene | 17-AUG-07 14:19 | 0.43 | 18. | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 17-AUG-07 14:19 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 17-AUG-07 14:19 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 17-AUG-07 14:19 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 17-AUG-07 14:19 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 17-AUG-07 14:19 | 0.0847 | 23. | ppb v/v | E | 1 | 0.5 |
| Tetrachloroethene | 17-AUG-07 14:19 | 0.57 | 160 | µg/m³ | E | 1 | 3.4 |
| 2-Hexanone | 17-AUG-07 14:19 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 17-AUG-07 14:19 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 17-AUG-07 14:19 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 17-AUG-07 14:19 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 17-AUG-07 14:19 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 17-AUG-07 14:19 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 17-AUG-07 14:19 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 17-AUG-07 14:19 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 17-AUG-07 14:19 | 0.150 | 1.2 | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 17-AUG-07 14:19 | 0.65 | 5.3 | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 17-AUG-07 14:19 | 0.213 | 4.1 | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 17-AUG-07 14:19 | 0.92 | 18. | µg/m³ | | 1 | 4.3 |
| o-Xylene | 17-AUG-07 14:19 | 0.113 | 1.4 | ppb v/v | | 1 | 0.5 |
| o-Xylene | 17-AUG-07 14:19 | 0.49 | 6.2 | µg/m³ | | 1 | 2.2 |
| Styrene | 17-AUG-07 14:19 | 0.0748 | 0.11 | ppb v/v | J | 1 | 0.5 |
| Styrene | 17-AUG-07 14:19 | 0.32 | 0.45 | µg/m³ | J | 1 | 2.1 |
| Bromoform | 17-AUG-07 14:19 | 0.0884 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 17-AUG-07 14:19 | 0.90 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 17-AUG-07 14:19 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 17-AUG-07 14:19 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 17-AUG-07 14:19 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 17-AUG-07 14:19 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 17-AUG-07 14:19 | 0.0983 | 0.23 | ppb v/v | J | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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Page 14

S077H03T

Date Printed.....: 23-AUG-07 09:52
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E04216**
DCL Report Group..: **07E-0733-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 17-AUG-07 14:19 | 0.48 | 1.1 | µg/m³ | J | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 17-AUG-07 14:19 | 0.112 | 0.24 | ppb v/v | J | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 17-AUG-07 14:19 | 0.55 | 1.2 | µg/m³ | J | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 17-AUG-07 14:19 | 0.117 | 0.59 | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 17-AUG-07 14:19 | 0.58 | 2.9 | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 17-AUG-07 14:19 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 17-AUG-07 14:19 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 17-AUG-07 14:19 | 0.0987 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 17-AUG-07 14:19 | 0.59 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 17-AUG-07 14:19 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 17-AUG-07 14:19 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 17-AUG-07 14:19 | 0.115 UJ | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 17-AUG-07 14:19 | 0.85 UJ | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 17-AUG-07 14:19 | 0.119 UJ | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 17-AUG-07 14:19 | 1.3 UJ | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Propene(4.23) | 17-AUG-07 14:19 | 4.1 | ppb v/v | J | 1 |
| Butane(4.82) | 17-AUG-07 14:19 | 4.4 | ppb v/v | J | 1 |
| Ethanol(5.30) | 17-AUG-07 14:19 | 5.1 | ppb v/v | J | 1 |
| Isopropyl Alcohol(5.94) | 17-AUG-07 14:19 | 1.7 | ppb v/v | J | 1 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
08230709522948
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S077H03V

Date Printed.....: 23-AUG-07 09:52

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 055729
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 055729

Date Received.....: 16-AUG-07 00:00

Client Sample Name: **EPA-10-IA5**
DCL Sample Name...: **07E04217**
DCL Report Group..: **07E-0733-01**

Matrix.....: AIR
Date Sampled.....: 14-AUG-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G077P00G
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 17-AUG-07 15:29 | 0.0669 | 0.90 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 17-AUG-07 15:29 | 0.33 | 4.4 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 17-AUG-07 15:29 | 0.249 | 0.54 | ppb v/v | | 1 | 0.5 |
| Chloromethane | 17-AUG-07 15:29 | 0.51 | 1.1 | µg/m³ | | 1 | 1.0 |
| Freon 114 | 17-AUG-07 15:29 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 17-AUG-07 15:29 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 17-AUG-07 15:29 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 17-AUG-07 15:29 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 17-AUG-07 15:29 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 17-AUG-07 15:29 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 17-AUG-07 15:29 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 17-AUG-07 15:29 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 17-AUG-07 15:29 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 17-AUG-07 15:29 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 17-AUG-07 15:29 | 0.0921 | 0.92 | ppb v/v | | 1 | 0.5 |
| Freon 11 | 17-AUG-07 15:29 | 0.52 | 5.2 | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 17-AUG-07 15:29 | 0.102 | 0.19 | ppb v/v | J | 1 | 0.5 |
| cis-1,2-Dichloroethene | 17-AUG-07 15:29 | 0.40 | 0.77 | µg/m³ | J | 1 | 2.0 |
| Carbon Disulfide | 17-AUG-07 15:29 | 0.111 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 17-AUG-07 15:29 | 0.35 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 17-AUG-07 15:29 | 0.0950 | 0.10 | ppb v/v | J | 1 | 0.5 |
| Freon 113 | 17-AUG-07 15:29 | 0.73 | 0.79 | µg/m³ | J | 1 | 3.8 |
| Acetone | 17-AUG-07 15:29 | 0.113 | 15. | ppb v/v | | 1 | 0.5 |
| Acetone | 17-AUG-07 15:29 | 0.27 | 35. | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 17-AUG-07 15:29 | 0.168 | 0.95 | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 17-AUG-07 15:29 | 0.58 | 3.3 | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 17-AUG-07 15:29 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 17-AUG-07 15:29 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 17-AUG-07 15:29 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 17-AUG-07 15:29 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 17-AUG-07 15:29 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 17-AUG-07 15:29 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 17-AUG-07 15:29 | 0.133 | 0.48 | ppb v/v | J | 1 | 0.5 |
| Vinyl Acetate | 17-AUG-07 15:29 | 0.47 | 1.7 | µg/m³ | J | 1 | 1.8 |
| 1,1-Dichloroethene | 17-AUG-07 15:29 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 17-AUG-07 15:29 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 17-AUG-07 15:29 | 0.182 | 1.1 | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 17-AUG-07 15:29 | 0.54 | 3.3 | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 17-AUG-07 15:29 | 0.273 | ND | ppb v/v | | 1 | 0.5 |
| Ethyl Acetate | 17-AUG-07 15:29 | 0.98 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 17-AUG-07 15:29 | 0.121 | 0.33 | ppb v/v | J | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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S077H03V

Date Printed.....: 23-AUG-07 09:52
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 07E04217
DCL Report Group..: 07E-0733-01

**Analytical Results**

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 17-AUG-07 15:29 | 0.43 | 1.2 | µg/m³ | J | 1 | 1.8 |
| Chloroform | 17-AUG-07 15:29 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 17-AUG-07 15:29 | 0.56 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 17-AUG-07 15:29 | 0.0725 | 0.16 | ppb v/v | J | 1 | 0.5 |
| 1,1,1-Trichloroethane | 17-AUG-07 15:29 | 0.40 | 0.89 | µg/m³ | J | 1 | 2.7 |
| Carbon Tetrachloride | 17-AUG-07 15:29 | 0.0657 | 0.13 | ppb v/v | J | 1 | 0.5 |
| Carbon Tetrachloride | 17-AUG-07 15:29 | 0.41 | 0.84 | µg/m³ | J | 1 | 3.1 |
| Benzene | 17-AUG-07 15:29 | 0.102 | 0.35 | ppb v/v | J | 1 | 0.5 |
| Benzene | 17-AUG-07 15:29 | 0.33 | 1.1 | µg/m³ | J | 1 | 1.6 |
| Tetrahydrofuran | 17-AUG-07 15:29 | 0.227 | 0.75 | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 17-AUG-07 15:29 | 0.67 | 2.2 | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 17-AUG-07 15:29 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 17-AUG-07 15:29 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 17-AUG-07 15:29 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 17-AUG-07 15:29 | 0.41 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 17-AUG-07 15:29 | 0.120 | 3.9 | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 17-AUG-07 15:29 | 0.64 | 21. | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 17-AUG-07 15:29 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 17-AUG-07 15:29 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 17-AUG-07 15:29 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 17-AUG-07 15:29 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 17-AUG-07 15:29 | 0.101 | 1.4 | ppb v/v | | 1 | 0.5 |
| Heptane | 17-AUG-07 15:29 | 0.41 | 5.5 | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 17-AUG-07 15:29 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 17-AUG-07 15:29 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 17-AUG-07 15:29 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 17-AUG-07 15:29 | 0.48 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 17-AUG-07 15:29 | 0.115 | 3.0 | ppb v/v | | 1 | 0.5 |
| Toluene | 17-AUG-07 15:29 | 0.43 | 11. | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 17-AUG-07 15:29 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 17-AUG-07 15:29 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 17-AUG-07 15:29 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 17-AUG-07 15:29 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 17-AUG-07 15:29 | 0.0847 | 14. | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 17-AUG-07 15:29 | 0.57 | 92. | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 17-AUG-07 15:29 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 17-AUG-07 15:29 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 17-AUG-07 15:29 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 17-AUG-07 15:29 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 17-AUG-07 15:29 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 17-AUG-07 15:29 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 17-AUG-07 15:29 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 17-AUG-07 15:29 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 17-AUG-07 15:29 | 0.150 | 0.85 | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 17-AUG-07 15:29 | 0.65 | 3.7 | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 17-AUG-07 15:29 | 0.213 | 2.6 | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 17-AUG-07 15:29 | 0.92 | 11. | µg/m³ | | 1 | 4.3 |
| o-Xylene | 17-AUG-07 15:29 | 0.113 | 0.99 | ppb v/v | | 1 | 0.5 |
| o-Xylene | 17-AUG-07 15:29 | 0.49 | 4.3 | µg/m³ | | 1 | 2.2 |
| Styrene | 17-AUG-07 15:29 | 0.0748 | 0.24 | ppb v/v | J | 1 | 0.5 |
| Styrene | 17-AUG-07 15:29 | 0.32 | 1.0 | µg/m³ | J | 1 | 2.1 |
| Bromoform | 17-AUG-07 15:29 | 0.0884 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 17-AUG-07 15:29 | 0.90 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 17-AUG-07 15:29 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 17-AUG-07 15:29 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 17-AUG-07 15:29 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 17-AUG-07 15:29 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 17-AUG-07 15:29 | 0.0983 | 0.17 | ppb v/v | J | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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S077H03V

Date Printed.....: 23-AUG-07 09:52
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E04217**
DCL Report Group..: **07E-0733-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 17-AUG-07 15:29 | 0.48 | 0.82 | µg/m³ | J | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 17-AUG-07 15:29 | 0.112 | 0.18 | ppb v/v | J | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 17-AUG-07 15:29 | 0.55 | 0.90 | µg/m³ | J | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 17-AUG-07 15:29 | 0.117 | 0.49 | ppb v/v | J | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 17-AUG-07 15:29 | 0.58 | 2.4 | µg/m³ | J | 1 | 2.5 |
| 1,3-Dichlorobenzene | 17-AUG-07 15:29 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 17-AUG-07 15:29 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 17-AUG-07 15:29 | 0.0987 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 17-AUG-07 15:29 | 0.59 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 17-AUG-07 15:29 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 17-AUG-07 15:29 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 17-AUG-07 15:29 | 0.115 UJ | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 17-AUG-07 15:29 | 0.85 UJ | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 17-AUG-07 15:29 | 0.119 UJ | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 17-AUG-07 15:29 | 1.3 UJ | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Propene(4.22) | 17-AUG-07 15:29 | 2.8 | ppb v/v | J | 1 |
| Butane(4.83) | 17-AUG-07 15:29 | 3.3 | ppb v/v | J | 1 |
| Ethanol(5.32) | 17-AUG-07 15:29 | 9.7 | ppb v/v | J | 1 |
| Isopropyl Alcohol(5.98) | 17-AUG-07 15:29 | 1.9 | ppb v/v | J | 1 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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S077H03W

Date Printed.....: 23-AUG-07 09:52

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 055729
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 055729

Date Received.....: 16-AUG-07 00:00

Client Sample Name: EPA-10-IA6
DCL Sample Name...: 07E04218
DCL Report Group..: 07E-0733-01

Matrix.....: AIR
Date Sampled.....: 14-AUG-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G077P00G
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 17-AUG-07 16:11 | 0.0669 | 0.84 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 17-AUG-07 16:11 | 0.33 | 4.2 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 17-AUG-07 16:11 | 0.249 | 0.64 | ppb v/v | | 1 | 0.5 |
| Chloromethane | 17-AUG-07 16:11 | 0.51 | 1.3 | µg/m³ | | 1 | 1.0 |
| Freon 114 | 17-AUG-07 16:11 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 17-AUG-07 16:11 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 17-AUG-07 16:11 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 17-AUG-07 16:11 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 17-AUG-07 16:11 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 17-AUG-07 16:11 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 17-AUG-07 16:11 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 17-AUG-07 16:11 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 17-AUG-07 16:11 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 17-AUG-07 16:11 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 17-AUG-07 16:11 | 0.0921 | 0.66 | ppb v/v | | 1 | 0.5 |
| Freon 11 | 17-AUG-07 16:11 | 0.52 | 3.7 | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 17-AUG-07 16:11 | 0.102 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 17-AUG-07 16:11 | 0.40 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 17-AUG-07 16:11 | 0.111 | 3.0 | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 17-AUG-07 16:11 | 0.35 | 9.2 | µg/m³ | | 1 | 1.6 |
| Freon 113 | 17-AUG-07 16:11 | 0.0950 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 17-AUG-07 16:11 | 0.73 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 17-AUG-07 16:11 | 0.113 | 7.5 | ppb v/v | | 1 | 0.5 |
| Acetone | 17-AUG-07 16:11 | 0.27 | 18. | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 17-AUG-07 16:11 | 0.168 | 1.2 | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 17-AUG-07 16:11 | 0.58 | 4.3 | µg/m³ | | 1 | 1.7 |
| trans-1,2 Dichloroethene | 17-AUG-07 16:11 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 17-AUG-07 16:11 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 17-AUG-07 16:11 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 17-AUG-07 16:11 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 17-AUG-07 16:11 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 17-AUG-07 16:11 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 17-AUG-07 16:11 | 0.133 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 17-AUG-07 16:11 | 0.47 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 17-AUG-07 16:11 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 17-AUG-07 16:11 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 17-AUG-07 16:11 | 0.182 | 0.78 | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 17-AUG-07 16:11 | 0.54 | 2.3 | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 17-AUG-07 16:11 | 0.273 | 0.33 | ppb v/v | J | 1 | 0.5 |
| Ethyl Acetate | 17-AUG-07 16:11 | 0.98 | 1.2 | µg/m³ | J | 1 | 1.8 |
| Hexane | 17-AUG-07 16:11 | 0.121 | ND | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

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S077H03W

Date Printed.....: 23-AUG-07 09:52
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 07E04218
DCL Report Group..: 07E-0733-01

**Analytical Results**

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 17-AUG-07 16:11 | 0.43 | ND | µg/m³ | | 1 | 1.8 |
| Chloroform | 17-AUG-07 16:11 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 17-AUG-07 16:11 | 0.56 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 17-AUG-07 16:11 | 0.0725 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 17-AUG-07 16:11 | 0.40 | ND | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 17-AUG-07 16:11 | 0.0657 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 17-AUG-07 16:11 | 0.41 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 17-AUG-07 16:11 | 0.102 | 0.34 | ppb v/v | J | 1 | 0.5 |
| Benzene | 17-AUG-07 16:11 | 0.33 | 1.1 | µg/m³ | J | 1 | 1.6 |
| Tetrahydrofuran | 17-AUG-07 16:11 | 0.227 | 0.42 | ppb v/v | J | 1 | 0.5 |
| Tetrahydrofuran | 17-AUG-07 16:11 | 0.67 | 1.2 | µg/m³ | J | 1 | 1.5 |
| 1,2-Dichloroethane | 17-AUG-07 16:11 | 0.153 | 0.25 | ppb v/v | J | 1 | 0.5 |
| 1,2-Dichloroethane | 17-AUG-07 16:11 | 0.62 | 1.0 | µg/m³ | J | 1 | 2.0 |
| Cyclohexane | 17-AUG-07 16:11 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 17-AUG-07 16:11 | 0.41 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 17-AUG-07 16:11 | 0.120 | 1.4 | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 17-AUG-07 16:11 | 0.64 | 7.7 | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 17-AUG-07 16:11 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 17-AUG-07 16:11 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 17-AUG-07 16:11 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 17-AUG-07 16:11 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 17-AUG-07 16:11 | 0.101 | 0.68 | ppb v/v | | 1 | 0.5 |
| Heptane | 17-AUG-07 16:11 | 0.41 | 2.8 | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 17-AUG-07 16:11 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 17-AUG-07 16:11 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 17-AUG-07 16:11 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 17-AUG-07 16:11 | 0.48 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 17-AUG-07 16:11 | 0.115 | 1.1 | ppb v/v | | 1 | 0.5 |
| Toluene | 17-AUG-07 16:11 | 0.43 | 4.2 | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 17-AUG-07 16:11 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 17-AUG-07 16:11 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 17-AUG-07 16:11 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 17-AUG-07 16:11 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 17-AUG-07 16:11 | 0.0847 | 1.9 | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 17-AUG-07 16:11 | 0.57 | 13. | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 17-AUG-07 16:11 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 17-AUG-07 16:11 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 17-AUG-07 16:11 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 17-AUG-07 16:11 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 17-AUG-07 16:11 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 17-AUG-07 16:11 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 17-AUG-07 16:11 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 17-AUG-07 16:11 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 17-AUG-07 16:11 | 0.150 | 0.24 | ppb v/v | J | 1 | 0.5 |
| Ethylbenzene | 17-AUG-07 16:11 | 0.65 | 1.0 | µg/m³ | J | 1 | 2.2 |
| m,p-Xylene | 17-AUG-07 16:11 | 0.213 | 0.81 | ppb v/v | J | 1 | 1.0 |
| m,p-Xylene | 17-AUG-07 16:11 | 0.92 | 3.5 | µg/m³ | J | 1 | 4.3 |
| o-Xylene | 17-AUG-07 16:11 | 0.113 | 0.31 | ppb v/v | J | 1 | 0.5 |
| o-Xylene | 17-AUG-07 16:11 | 0.49 | 1.4 | µg/m³ | J | 1 | 2.2 |
| Styrene | 17-AUG-07 16:11 | 0.0748 | 0.11 | ppb v/v | J | 1 | 0.5 |
| Styrene | 17-AUG-07 16:11 | 0.32 | 0.46 | µg/m³ | J | 1 | 2.1 |
| Bromoform | 17-AUG-07 16:11 | 0.0884 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 17-AUG-07 16:11 | 0.90 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 17-AUG-07 16:11 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 17-AUG-07 16:11 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 17-AUG-07 16:11 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 17-AUG-07 16:11 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 17-AUG-07 16:11 | 0.0983 | ND | ppb v/v | | 1 | 0.5 |

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SAMPLE ANALYSIS DATA SHEET

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S077H03W

Date Printed.....: 23-AUG-07 09:52
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 07E04218
DCL Report Group..: 07E-0733-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 17-AUG-07 16:11 | 0.48 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 17-AUG-07 16:11 | 0.112 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 17-AUG-07 16:11 | 0.55 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 17-AUG-07 16:11 | 0.117 | 0.19 | ppb v/v | J | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 17-AUG-07 16:11 | 0.58 | 0.94 | µg/m³ | J | 1 | 2.5 |
| 1,3-Dichlorobenzene | 17-AUG-07 16:11 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 17-AUG-07 16:11 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 17-AUG-07 16:11 | 0.0987 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 17-AUG-07 16:11 | 0.59 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 17-AUG-07 16:11 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 17-AUG-07 16:11 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 17-AUG-07 16:11 | 0.115 | UJ ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 17-AUG-07 16:11 | 0.85 | UJ ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 17-AUG-07 16:11 | 0.119 | UJ ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 17-AUG-07 16:11 | 1.3 | UJ ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Propene(4.23) | 17-AUG-07 16:11 | 1.2 | ppb v/v | J | 1 |
| Ethanol(5.31) | 17-AUG-07 16:11 | 5.7 | ppb v/v | J | 1 |
| Isopropyl Alcohol(5.96) | 17-AUG-07 16:11 | 1.3 | ppb v/v | J | 1 |

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**BEHR VOC PLUME SITE**
**DAYTON, OHIO**
**DATA VALIDATION REPORT**

**Date:** April 10, 2007
**Laboratory:** DataChem Laboratories, Inc. (DataChem), Salt Lake City, Utah
**Laboratory SDG #/Set ID #:** BEHR/07E-0202-01
**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)
**Weston Analytical Work Order #/TDD #**: 20405.016.003.0121.00/S05-0612-007

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation of air samples collected for the Behr VOC Plume Site that were analyzed for Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) method TO-15. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999.

**VOCs in Air by U.S. EPA Method TO15**

## 1. Samples

The following table summarizes the sample for which this data validation is being conducted.

| Samples | Lab ID | Matrix | Date Collected | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|
| EPA-10-SS | 07E01754 | Air | 03/20/07 | NA | 03/23/07 |

## 2. Holding Times

The sample was analyzed within the required holding time limit of 30 days from sample collection in accordance with method TO-15.

## 3. Instrument Performance Check

The instrument performance check using bromofluorobenzene (BFB) was performed within the 24-hour period for which the samples were analyzed as required for method TO-15. The BFB standard met the ion abundance criteria specified in method TO-15.

## 4. Initial Calibration

The initial calibration had acceptable results. The percent relative standard deviations (%RSD) for all compounds were less than 30 percent except for acetone. The detected result for acetone was flagged "J" as estimated for this discrepancy. The average relative response factors were all greater than 0.05.

## 5. Continuing Calibration

The percent differences (%D) in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent except for acetone, 4-methyl-2-pentanone, and 2-hexanone. For these three compounds, detected results were flagged "J" and the quantitation limits for non-detected results were flagged "UJ" as estimated.

## 6. Blanks

The method blank associated with the sample was free of target compound contamination.

## 7. Surrogates

All 4-bromofluorobenzene surrogate spike recovery for the sample was within the quality control (QC) limits.

## 8. Laboratory Control Sample (LCS)

All LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits of 70 to 130 percent recovery except for propene; 1,2,4-trichlorobenzene; and hexachlorobutadiene which were detected low in the LCS standards. For these three compounds, detected results were flagged "J" and the quantitation limits for non-detected results were flagged "UJ" as estimated.

## 9. Internal Standard Results

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than ±30 seconds from the retention time of the associated continuing calibration standard.

## 10. Target Compound Identification

A spot-check was performed of the mass spectra for detected compounds. The spot-check confirmed compound identification. DataChem appropriately flagged those results detected above the method detection limit but below the quantitation limit as "J" or estimated.

# ATTACHMENT

# DATACHEM LABORATORIES
# RESULTS SUMMARY

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
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S072P018

Date Printed.....: 28-MAR-07 14:49

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: Not Provided
Sampling Site.....: Behr VOC Plume Site
Release Number.....: 0555729

Date Received.....: 22-MAR-07 00:00

Client Sample Name: **EPA-10-SS**
DCL Sample Name...: **07E01754**
DCL Report Group..: **07E-0202-01**

Matrix.....: AIR
Date Sampled.....: 20-MAR-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G072V01Q
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Propene | 23-MAR-07 02:59 | 0.180 | 5.9 J | ppb v/v | | 1 | 0.5 |
| Propene | 23-MAR-07 02:59 | 0.31 | 10. J | µg/m³ | | 1 | 0.86 |
| Dichlorodifluoromethane | 23-MAR-07 02:59 | 0.0669 | 0.65 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 23-MAR-07 02:59 | 0.33 | 3.2 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 23-MAR-07 02:59 | 0.249 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 23-MAR-07 02:59 | 0.51 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 23-MAR-07 02:59 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 23-MAR-07 02:59 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 23-MAR-07 02:59 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 23-MAR-07 02:59 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 23-MAR-07 02:59 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 23-MAR-07 02:59 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 23-MAR-07 02:59 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 23-MAR-07 02:59 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 23-MAR-07 02:59 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 23-MAR-07 02:59 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 23-MAR-07 02:59 | 0.0921 | 0.35 | ppb v/v | J | 1 | 0.5 |
| Freon 11 | 23-MAR-07 02:59 | 0.52 | 2.0 | µg/m³ | J | 1 | 2.8 |
| cis-1,2-Dichloroethene | 23-MAR-07 02:59 | 0.102 | 1.7 | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 23-MAR-07 02:59 | 0.40 | 6.6 | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 23-MAR-07 02:59 | 0.111 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 23-MAR-07 02:59 | 0.35 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 23-MAR-07 02:59 | 0.0950 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 23-MAR-07 02:59 | 0.73 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 23-MAR-07 02:59 | 0.113 | 7.0 J | ppb v/v | | 1 | 0.5 |
| Acetone | 23-MAR-07 02:59 | 0.27 | 17. J | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 23-MAR-07 02:59 | 0.168 | 1.9 | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 23-MAR-07 02:59 | 0.58 | 6.6 | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 23-MAR-07 02:59 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 23-MAR-07 02:59 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 23-MAR-07 02:59 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 23-MAR-07 02:59 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 23-MAR-07 02:59 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 23-MAR-07 02:59 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 23-MAR-07 02:59 | 0.133 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 23-MAR-07 02:59 | 0.47 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 23-MAR-07 02:59 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 23-MAR-07 02:59 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 23-MAR-07 02:59 | 0.182 | 0.96 | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 23-MAR-07 02:59 | 0.54 | 2.8 | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 23-MAR-07 02:59 | 0.273 | ND | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S072P018

Date Printed.....: 28-MAR-07 14:49
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E01754**
DCL Report Group..: **07E-0202-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Ethyl Acetate | 23-MAR-07 02:59 | 0.98 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 23-MAR-07 02:59 | 0.121 | 0.37 | ppb v/v | J | 1 | 0.5 |
| Hexane | 23-MAR-07 02:59 | 0.43 | 1.3 | µg/m³ | J | 1 | 1.8 |
| Chloroform | 23-MAR-07 02:59 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 23-MAR-07 02:59 | 0.56 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 23-MAR-07 02:59 | 0.0725 | 0.40 | ppb v/v | J | 1 | 0.5 |
| 1,1,1-Trichloroethane | 23-MAR-07 02:59 | 0.40 | 2.2 | µg/m³ | J | 1 | 2.7 |
| Carbon Tetrachloride | 23-MAR-07 02:59 | 0.0657 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 23-MAR-07 02:59 | 0.41 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 23-MAR-07 02:59 | 0.102 | 0.21 | ppb v/v | J | 1 | 0.5 |
| Benzene | 23-MAR-07 02:59 | 0.33 | 0.67 | µg/m³ | J | 1 | 1.6 |
| Tetrahydrofuran | 23-MAR-07 02:59 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 23-MAR-07 02:59 | 0.67 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 23-MAR-07 02:59 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 23-MAR-07 02:59 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 23-MAR-07 02:59 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 23-MAR-07 02:59 | 0.41 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 23-MAR-07 02:59 | 0.24 | 30. | ppb v/v | | 2 | 1.0 |
| Trichloroethene | 23-MAR-07 02:59 | 1.3 | 160 | µg/m³ | | 2 | 5.4 |
| 1,2-Dichloropropane | 23-MAR-07 02:59 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 23-MAR-07 02:59 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 23-MAR-07 02:59 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 23-MAR-07 02:59 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 23-MAR-07 02:59 | 0.101 | ND | ppb v/v | | 1 | 0.5 |
| Heptane | 23-MAR-07 02:59 | 0.41 | ND | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 23-MAR-07 02:59 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 23-MAR-07 02:59 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 23-MAR-07 02:59 | 0.116 | ND UJ | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 23-MAR-07 02:59 | 0.48 | ND UJ | µg/m³ | | 1 | 2.0 |
| Toluene | 23-MAR-07 02:59 | 0.115 | 0.26 | ppb v/v | J | 1 | 0.5 |
| Toluene | 23-MAR-07 02:59 | 0.43 | 0.96 | µg/m³ | J | 1 | 1.9 |
| trans-1,3-Dichloropropene | 23-MAR-07 02:59 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 23-MAR-07 02:59 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 23-MAR-07 02:59 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 23-MAR-07 02:59 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 23-MAR-07 02:59 | 0.0847 | 22. | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 23-MAR-07 02:59 | 0.57 | 150 | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 23-MAR-07 02:59 | 0.136 | ND UJ | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 23-MAR-07 02:59 | 0.56 | ND UJ | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 23-MAR-07 02:59 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 23-MAR-07 02:59 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 23-MAR-07 02:59 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 23-MAR-07 02:59 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 23-MAR-07 02:59 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 23-MAR-07 02:59 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 23-MAR-07 02:59 | 0.150 | ND | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 23-MAR-07 02:59 | 0.65 | ND | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 23-MAR-07 02:59 | 0.213 | ND | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 23-MAR-07 02:59 | 0.92 | ND | µg/m³ | | 1 | 4.3 |
| o-Xylene | 23-MAR-07 02:59 | 0.113 | ND | ppb v/v | | 1 | 0.5 |
| o-Xylene | 23-MAR-07 02:59 | 0.49 | ND | µg/m³ | | 1 | 2.2 |
| Styrene | 23-MAR-07 02:59 | 0.0748 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 23-MAR-07 02:59 | 0.32 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 23-MAR-07 02:59 | 0.0884 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 23-MAR-07 02:59 | 0.90 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 23-MAR-07 02:59 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 23-MAR-07 02:59 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 23-MAR-07 02:59 | 0.136 | ND | ppb v/v | | 1 | 0.5 |

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4/12/07

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S072P018

Date Printed.....: 28-MAR-07 14:49
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E01754**
DCL Report Group..: **07E-0202-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Benzyl Chloride | 23-MAR-07 02:59 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 23-MAR-07 02:59 | 0.0983 | ND | ppb v/v | | 1 | 0.5 |
| 4-Ethyl toluene | 23-MAR-07 02:59 | 0.48 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 23-MAR-07 02:59 | 0.112 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 23-MAR-07 02:59 | 0.55 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 23-MAR-07 02:59 | 0.117 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 23-MAR-07 02:59 | 0.58 | ND | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 23-MAR-07 02:59 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 23-MAR-07 02:59 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 23-MAR-07 02:59 | 0.0987 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 23-MAR-07 02:59 | 0.59 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 23-MAR-07 02:59 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 23-MAR-07 02:59 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 23-MAR-07 02:59 | 0.115 | ND UJ | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 23-MAR-07 02:59 | 0.85 | ND UJ | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 23-MAR-07 02:59 | 0.119 | ND UJ | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 23-MAR-07 02:59 | 1.3 | ND UJ | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Isobutane(4.54) | 23-MAR-07 02:59 | 4.0 | ppb v/v | J | 1 |
| Butane(4.80) | 23-MAR-07 02:59 | 2.1 | ppb v/v | J | 1 |
| Ethanol(5.27) | 23-MAR-07 02:59 | 6.3 | ppb v/v | J | 1 |

ZY
4/10/07

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**BEHR VOC PLUME SITE**
**DAYTON, OHIO**
**DATA VALIDATION REPORT**

**Date:** August 7, 2007
**Laboratory:** DataChem Laboratories, Inc. (DataChem), Salt Lake City, Utah
**Laboratory SDG #/Set ID #:** BEHR/07E-0616-01
**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)
**Weston Analytical Work Order #/TDD #**: 20405.016.003.0121.00/S05-0612-007

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation of air samples collected for the Behr VOC Plume Site that were analyzed for Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) method TO-15. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999.

**VOCs in Air by U.S. EPA Method TO15**

## 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

| Samples | Lab ID | Matrix | Date Collected | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|
| EPA-11-SS2 | 07E03542 | Air | 07/11/07 | NA | 07/13/07 |
| EPA-11-IA2 | 07E03543 | Air | 07/11/07 | NA | 07/13/07 |

## 2. Holding Times

The samples were analyzed within the required holding time limit of 30 days from sample collection in accordance with method TO-15.

## 3. Instrument Performance Check

The instrument performance check using bromofluorobenzene (BFB) standard met the ion abundance criteria specified in method TO-15.

## 4. Initial Calibration

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30 percent. The average relative response factors were all greater than 0.05.

## 5. Continuing Calibration

The percent differences in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent.

## 6. Blanks

The method blank associated with the samples was free of target compound contamination except for dichlorodifluoromethane at 0.51 part per billion (ppb) and acetone at 0.76 ppb. Detected results at less than 5 times the blank concentration for dichlorodifluoromethane and less than 10 times the blank concentration for acetone were flagged "U" as not detected.

## 7. Surrogates

The 4-bromofluorobenzene surrogate spike recoveries in the samples were within the quality control (QC) limits.

## 8. Laboratory Control Sample (LCS)

The LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits of 70 to 130 percent recovery.

## 9. Internal Standard Results

The internal standard area counts in the samples were within -50 percent to +100 percent of the area counts of the associated continuing calibration standard. The retention time of the internal standards did not vary more than ±30 seconds from the retention time of the associated continuing calibration standard.

## 10. Target Compound Identification

A spot-check was performed of the mass spectra for detected compounds. The spot-check confirmed compound identification. DataChem appropriately flagged those results detected above the method detection limit but below the quantitation limit as "J" or estimated.

# ATTACHMENT

## DATACHEM LABORATORIES
## RESULTS SUMMARY

DATA CHEM LABORATORIES
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# FORM A (TYPE I)
## SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
07200711463070


## SAMPLE ANALYSIS DATA SHEET

S076D00N

Date Printed.....: 20-JUL-07 11:46

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 055729
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 055729

Date Received.....: 13-JUL-07 00:00

Client Sample Name: **EPA-11-SS2|107003**
DCL Sample Name...: **07E03542**
DCL Report Group..: **07E-0616-01**

Matrix.....: AIR
Date Sampled.....: 11-JUL-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G076K00Z
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 13-JUL-07 13:22 | 0.0669 | 4.0 | ppb v/v | B | 1 | 0.5 |
| Dichlorodifluoromethane | 13-JUL-07 13:22 | 0.33 | 20. | µg/m³ | B | 1 | 2.5 |
| Chloromethane | 13-JUL-07 13:22 | 0.249 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 13-JUL-07 13:22 | 0.51 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 13-JUL-07 13:22 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 13-JUL-07 13:22 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 13-JUL-07 13:22 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 13-JUL-07 13:22 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 13-JUL-07 13:22 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 13-JUL-07 13:22 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 13-JUL-07 13:22 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 13-JUL-07 13:22 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 13-JUL-07 13:22 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 13-JUL-07 13:22 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 13-JUL-07 13:22 | 0.0921 | 1.3 | ppb v/v | | 1 | 0.5 |
| Freon 11 | 13-JUL-07 13:22 | 0.52 | 7.0 | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 13-JUL-07 13:22 | 0.102 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 13-JUL-07 13:22 | 0.40 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 13-JUL-07 13:22 | 0.111 | 0.29 | ppb v/v | J | 1 | 0.5 |
| Carbon Disulfide | 13-JUL-07 13:22 | 0.35 | 0.90 | µg/m³ | J | 1 | 1.6 |
| Freon 113 | 13-JUL-07 13:22 | 0.0950 | 0.14 | ppb v/v | J | 1 | 0.5 |
| Freon 113 | 13-JUL-07 13:22 | 0.73 | 1.1 | µg/m³ | J | 1 | 3.8 |
| Acetone | 13-JUL-07 13:22 | 0.113 | 5.8 | ppb v/v | B | 1 | 0.5 |
| Acetone | 13-JUL-07 13:22 | 0.27 | 14. | µg/m³ | B | 1 | 1.2 |
| Methylene Chloride | 13-JUL-07 13:22 | 0.168 | 0.39 | ppb v/v | J | 1 | 0.5 |
| Methylene Chloride | 13-JUL-07 13:22 | 0.58 | 1.4 | µg/m³ | J | 1 | 1.7 |
| trans-1,2-Dichloroethene | 13-JUL-07 13:22 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 13-JUL-07 13:22 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 13-JUL-07 13:22 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 13-JUL-07 13:22 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 13-JUL-07 13:22 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 13-JUL-07 13:22 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 13-JUL-07 13:22 | 0.133 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 13-JUL-07 13:22 | 0.47 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 13-JUL-07 13:22 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 13-JUL-07 13:22 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 13-JUL-07 13:22 | 0.182 | 0.40 | ppb v/v | J | 1 | 0.5 |
| 2-Butanone | 13-JUL-07 13:22 | 0.54 | 1.2 | µg/m³ | J | 1 | 1.5 |
| Ethyl Acetate | 13-JUL-07 13:22 | 0.273 | 0.43 | ppb v/v | J | 1 | 0.5 |
| Ethyl Acetate | 13-JUL-07 13:22 | 0.98 | 1.5 | µg/m³ | J | 1 | 1.8 |
| Hexane | 13-JUL-07 13:22 | 0.121 | ND | ppb v/v | | 1 | 0.5 |

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8/7/07

DATA CHEM LABORATORIES
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**FORM A (TYPE I)**
**SINGLE METHOD ANALYSES**

**SAMPLE ANALYSIS DATA SHEET**



S076D00N

Date Printed.....: 20-JUL-07 11:46
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E03542**
DCL Report Group..: **07E-0616-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 13-JUL-07 13:22 | 0.43 | ND | µg/m³ | | 1 | 1.8 |
| Chloroform | 13-JUL-07 13:22 | 0.115 | 3.9 | ppb v/v | | 1 | 0.5 |
| Chloroform | 13-JUL-07 13:22 | 0.56 | 19. | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 13-JUL-07 13:22 | 0.0725 | 0.21 | ppb v/v | J | 1 | 0.5 |
| 1,1,1-Trichloroethane | 13-JUL-07 13:22 | 0.40 | 1.1 | µg/m³ | J | 1 | 2.7 |
| Carbon Tetrachloride | 13-JUL-07 13:22 | 0.0657 | 0.16 | ppb v/v | J | 1 | 0.5 |
| Carbon Tetrachloride | 13-JUL-07 13:22 | 0.41 | 0.98 | µg/m³ | J | 1 | 3.1 |
| Benzene | 13-JUL-07 13:22 | 0.102 | ND | ppb v/v | | 1 | 0.5 |
| Benzene | 13-JUL-07 13:22 | 0.33 | ND | µg/m³ | | 1 | 1.6 |
| Tetrahydrofuran | 13-JUL-07 13:22 | 0.227 | 1.6 | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 13-JUL-07 13:22 | 0.67 | 4.8 | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 13-JUL-07 13:22 | 0.153 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 13-JUL-07 13:22 | 0.62 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 13-JUL-07 13:22 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 13-JUL-07 13:22 | 0.41 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 13-JUL-07 13:22 | 0.120 | 0.17 | ppb v/v | J | 1 | 0.5 |
| Trichloroethene | 13-JUL-07 13:22 | 0.64 | 0.93 | µg/m³ | J | 1 | 2.7 |
| 1,2-Dichloropropane | 13-JUL-07 13:22 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 13-JUL-07 13:22 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 13-JUL-07 13:22 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 13-JUL-07 13:22 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 13-JUL-07 13:22 | 0.101 | ND | ppb v/v | | 1 | 0.5 |
| Heptane | 13-JUL-07 13:22 | 0.41 | ND | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 13-JUL-07 13:22 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 13-JUL-07 13:22 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 13-JUL-07 13:22 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 13-JUL-07 13:22 | 0.48 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 13-JUL-07 13:22 | 0.115 | 0.32 | ppb v/v | J | 1 | 0.5 |
| Toluene | 13-JUL-07 13:22 | 0.43 | 1.2 | µg/m³ | J | 1 | 1.9 |
| trans-1,3-Dichloropropene | 13-JUL-07 13:22 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 13-JUL-07 13:22 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 13-JUL-07 13:22 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 13-JUL-07 13:22 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 13-JUL-07 13:22 | 0.0847 | 1.0 | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 13-JUL-07 13:22 | 0.57 | 6.9 | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 13-JUL-07 13:22 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 13-JUL-07 13:22 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 13-JUL-07 13:22 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 13-JUL-07 13:22 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 13-JUL-07 13:22 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 13-JUL-07 13:22 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 13-JUL-07 13:22 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 13-JUL-07 13:22 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 13-JUL-07 13:22 | 0.150 | ND | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 13-JUL-07 13:22 | 0.65 | ND | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 13-JUL-07 13:22 | 0.213 | ND | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 13-JUL-07 13:22 | 0.92 | ND | µg/m³ | | 1 | 4.3 |
| o-Xylene | 13-JUL-07 13:22 | 0.113 | ND | ppb v/v | | 1 | 0.5 |
| o-Xylene | 13-JUL-07 13:22 | 0.49 | ND | µg/m³ | | 1 | 2.2 |
| Styrene | 13-JUL-07 13:22 | 0.0748 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 13-JUL-07 13:22 | 0.32 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 13-JUL-07 13:22 | 0.0884 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 13-JUL-07 13:22 | 0.90 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 13-JUL-07 13:22 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 13-JUL-07 13:22 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 13-JUL-07 13:22 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 13-JUL-07 13:22 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 13-JUL-07 13:22 | 0.0983 | ND | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S076D00N

Date Printed.....: 20-JUL-07 11:46
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E03542**
DCL Report Group..: **07E-0616-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 13-JUL-07 13:22 | 0.48 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 13-JUL-07 13:22 | 0.112 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 13-JUL-07 13:22 | 0.55 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 13-JUL-07 13:22 | 0.117 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 13-JUL-07 13:22 | 0.58 | ND | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 13-JUL-07 13:22 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 13-JUL-07 13:22 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 13-JUL-07 13:22 | 0.0987 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 13-JUL-07 13:22 | 0.59 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 13-JUL-07 13:22 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 13-JUL-07 13:22 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 13-JUL-07 13:22 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 13-JUL-07 13:22 | 0.85 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 13-JUL-07 13:22 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 13-JUL-07 13:22 | 1.3 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Methane, chlorodifluoro-(4.14) | 13-JUL-07 13:22 | 85. | ppb v/v | J | 1 |
| Ethane, 1-chloro-1,1-difluoro-(4.39) | 13-JUL-07 13:22 | 290 | ppb v/v | J | 1 |
| Isobutane(4.52) | 13-JUL-07 13:22 | 4.9 | ppb v/v | J | 1 |
| 1,4-Dioxane(10.51) | 13-JUL-07 13:22 | 3.1 | ppb v/v | J | 1 |

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# FORM A (TYPE I)
## SINGLE METHOD ANALYSES

## SAMPLE ANALYSIS DATA SHEET



S076D00P

Date Printed.....: 20-JUL-07 11:46

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 055729
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 055729

Date Received.....: 13-JUL-07 00:00

Client Sample Name: **EPA-11-I42|108018**
DCL Sample Name...: **07E03543**
DCL Report Group..: **07E-0616-01**

Matrix.....: AIR
Date Sampled.....: 11-JUL-07 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G076K00Z
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

### Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 13-JUL-07 14:46 | 0.0669 | 1.1 | ppb v/v | B | 1 | 0.5 |
| Dichlorodifluoromethane | 13-JUL-07 14:46 | 0.33 | 5.3 | µg/m³ | B | 1 | 2.5 |
| Chloromethane | 13-JUL-07 14:46 | 0.249 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 13-JUL-07 14:46 | 0.51 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 13-JUL-07 14:46 | 0.156 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 13-JUL-07 14:46 | 1.1 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 13-JUL-07 14:46 | 0.301 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 13-JUL-07 14:46 | 0.77 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 13-JUL-07 14:46 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 13-JUL-07 14:46 | 0.77 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 13-JUL-07 14:46 | 0.215 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 13-JUL-07 14:46 | 0.83 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 13-JUL-07 14:46 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 13-JUL-07 14:46 | 1.0 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 13-JUL-07 14:46 | 0.0921 | 0.32 | ppb v/v | J | 1 | 0.5 |
| Freon 11 | 13-JUL-07 14:46 | 0.52 | 1.8 | µg/m³ | J | 1 | 2.8 |
| cis-1,2-Dichloroethene | 13-JUL-07 14:46 | 0.102 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 13-JUL-07 14:46 | 0.40 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 13-JUL-07 14:46 | 0.111 | 0.33 | ppb v/v | J | 1 | 0.5 |
| Carbon Disulfide | 13-JUL-07 14:46 | 0.35 | 1.0 | µg/m³ | J | 1 | 1.6 |
| Freon 113 | 13-JUL-07 14:46 | 0.0950 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 13-JUL-07 14:46 | 0.73 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 13-JUL-07 14:46 | 0.113 | 19. | ppb v/v | B | 1 | 0.5 |
| Acetone | 13-JUL-07 14:46 | 0.27 | 46. | µg/m³ | B | 1 | 1.2 |
| Methylene Chloride | 13-JUL-07 14:46 | 0.168 | 0.28 | ppb v/v | J | 1 | 0.5 |
| Methylene Chloride | 13-JUL-07 14:46 | 0.58 | 0.98 | µg/m³ | J | 1 | 1.7 |
| trans-1,2-Dichloroethene | 13-JUL-07 14:46 | 0.118 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 13-JUL-07 14:46 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 13-JUL-07 14:46 | 0.116 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 13-JUL-07 14:46 | 0.47 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 13-JUL-07 14:46 | 0.147 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 13-JUL-07 14:46 | 0.53 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 13-JUL-07 14:46 | 0.133 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 13-JUL-07 14:46 | 0.47 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 13-JUL-07 14:46 | 0.109 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 13-JUL-07 14:46 | 0.43 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 13-JUL-07 14:46 | 0.182 | 3.2 | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 13-JUL-07 14:46 | 0.54 | 9.5 | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 13-JUL-07 14:46 | 0.273 | ND | ppb v/v | | 1 | 0.5 |
| Ethyl Acetate | 13-JUL-07 14:46 | 0.98 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 13-JUL-07 14:46 | 0.121 | 0.53 | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S076D00P

Date Printed.....: 20-JUL-07 11:46
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E03543**
DCL Report Group..: **07E-0616-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 13-JUL-07 14:46 | 0.43 | 1.9 | µg/m³ | | 1 | 1.8 |
| Chloroform | 13-JUL-07 14:46 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 13-JUL-07 14:46 | 0.56 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 13-JUL-07 14:46 | 0.0725 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 13-JUL-07 14:46 | 0.40 | ND | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 13-JUL-07 14:46 | 0.0657 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 13-JUL-07 14:46 | 0.41 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 13-JUL-07 14:46 | 0.102 | 0.10 | ppb v/v | J | 1 | 0.5 |
| Benzene | 13-JUL-07 14:46 | 0.33 | 0.33 | µg/m³ | J | 1 | 1.6 |
| Tetrahydrofuran | 13-JUL-07 14:46 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 13-JUL-07 14:46 | 0.67 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 13-JUL-07 14:46 | 0.153 | 0.55 | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 13-JUL-07 14:46 | 0.62 | 2.2 | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 13-JUL-07 14:46 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 13-JUL-07 14:46 | 0.41 | ND | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 13-JUL-07 14:46 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 13-JUL-07 14:46 | 0.64 | ND | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 13-JUL-07 14:46 | 0.123 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 13-JUL-07 14:46 | 0.57 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 13-JUL-07 14:46 | 0.0779 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 13-JUL-07 14:46 | 0.52 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 13-JUL-07 14:46 | 0.101 | ND | ppb v/v | | 1 | 0.5 |
| Heptane | 13-JUL-07 14:46 | 0.41 | ND | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 13-JUL-07 14:46 | 0.106 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 13-JUL-07 14:46 | 0.48 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 13-JUL-07 14:46 | 0.116 | 0.52 | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 13-JUL-07 14:46 | 0.48 | 2.1 | µg/m³ | | 1 | 2.0 |
| Toluene | 13-JUL-07 14:46 | 0.115 | 2.5 | ppb v/v | | 1 | 0.5 |
| Toluene | 13-JUL-07 14:46 | 0.43 | 9.5 | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 13-JUL-07 14:46 | 0.130 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 13-JUL-07 14:46 | 0.59 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 13-JUL-07 14:46 | 0.0972 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 13-JUL-07 14:46 | 0.53 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 13-JUL-07 14:46 | 0.0847 | ND | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 13-JUL-07 14:46 | 0.57 | ND | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 13-JUL-07 14:46 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 13-JUL-07 14:46 | 0.56 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 13-JUL-07 14:46 | 0.0792 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 13-JUL-07 14:46 | 0.67 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 13-JUL-07 14:46 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 13-JUL-07 14:46 | 0.91 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 13-JUL-07 14:46 | 0.0882 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 13-JUL-07 14:46 | 0.41 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 13-JUL-07 14:46 | 0.150 | ND | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 13-JUL-07 14:46 | 0.65 | ND | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 13-JUL-07 14:46 | 0.213 | 0.38 | ppb v/v | J | 1 | 1.0 |
| m,p-Xylene | 13-JUL-07 14:46 | 0.92 | 1.6 | µg/m³ | J | 1 | 4.3 |
| o-Xylene | 13-JUL-07 14:46 | 0.113 | 0.15 | ppb v/v | J | 1 | 0.5 |
| o-Xylene | 13-JUL-07 14:46 | 0.49 | 0.65 | µg/m³ | J | 1 | 2.2 |
| Styrene | 13-JUL-07 14:46 | 0.0748 | 0.31 | ppb v/v | J | 1 | 0.5 |
| Styrene | 13-JUL-07 14:46 | 0.32 | 1.3 | µg/m³ | J | 1 | 2.1 |
| Bromoform | 13-JUL-07 14:46 | 0.0884 | 0.30 | ppb v/v | J | 1 | 0.5 |
| Bromoform | 13-JUL-07 14:46 | 0.90 | 3.1 | µg/m³ | J | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 13-JUL-07 14:46 | 0.108 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 13-JUL-07 14:46 | 0.74 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 13-JUL-07 14:46 | 0.136 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 13-JUL-07 14:46 | 0.70 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 13-JUL-07 14:46 | 0.0983 | ND | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
07200711463070
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S076D00P

Date Printed.....: 20-JUL-07 11:46
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **07E03543**
DCL Report Group..: **07E-0616-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 13-JUL-07 14:46 | 0.48 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 13-JUL-07 14:46 | 0.112 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 13-JUL-07 14:46 | 0.55 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 13-JUL-07 14:46 | 0.117 | 0.24 | ppb v/v | J | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 13-JUL-07 14:46 | 0.58 | 1.2 | µg/m³ | J | 1 | 2.5 |
| 1,3-Dichlorobenzene | 13-JUL-07 14:46 | 0.120 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 13-JUL-07 14:46 | 0.72 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 13-JUL-07 14:46 | 0.0987 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 13-JUL-07 14:46 | 0.59 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 13-JUL-07 14:46 | 0.0851 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 13-JUL-07 14:46 | 0.51 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 13-JUL-07 14:46 | 0.115 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 13-JUL-07 14:46 | 0.85 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 13-JUL-07 14:46 | 0.119 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 13-JUL-07 14:46 | 1.3 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Ethane, 1-chloro-1,1-difluoro-(4.39) | 13-JUL-07 14:46 | 40. | ppb v/v | J | 1 |
| Ethanol(5.27) | 13-JUL-07 14:46 | 10. | ppb v/v | J | 1 |
| Isopropyl Alcohol(5.89) | 13-JUL-07 14:46 | 11. | ppb v/v | J | 1 |
| Pentane(6.11) | 13-JUL-07 14:46 | 6.8 | ppb v/v | J | 1 |

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1401 Leo SS 122707**

**Lab ID#: 0712590A-01A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **5010207** | **Date of Collection:** | **12/27/07** |
| **Dil. Factor:** | **1.79** | **Date of Analysis:** | **1/2/08 01:04 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.90 | Not Detected | 4.4 | Not Detected |
| Freon 114 | 0.90 | Not Detected | 6.2 | Not Detected |
| Chloromethane | 3.6 | Not Detected | 7.4 | Not Detected |
| Vinyl Chloride | 0.90 | Not Detected | 2.3 | Not Detected |
| 1,3-Butadiene | 0.90 | Not Detected | 2.0 | Not Detected |
| Bromomethane | 0.90 | Not Detected | 3.5 | Not Detected |
| Chloroethane | 0.90 | Not Detected | 2.4 | Not Detected |
| Freon 11 | 0.90 | 9.6 | 5.0 | 54 |
| Ethanol | 3.6 | Not Detected | 6.7 | Not Detected |
| Freon 113 | 0.90 | Not Detected | 6.8 | Not Detected |
| 1,1-Dichloroethene | 0.90 | Not Detected | 3.5 | Not Detected |
| Acetone | 3.6 | Not Detected | 8.5 | Not Detected |
| 2-Propanol | 3.6 | Not Detected | 8.8 | Not Detected |
| Carbon Disulfide | 0.90 | Not Detected | 2.8 | Not Detected |
| 3-Chloropropene | 3.6 | Not Detected | 11 | Not Detected |
| Methylene Chloride | 0.90 | Not Detected | 3.1 | Not Detected |
| Methyl tert-butyl ether | 0.90 | Not Detected | 3.2 | Not Detected |
| trans-1,2-Dichloroethene | 0.90 | Not Detected | 3.5 | Not Detected |
| Hexane | 0.90 | Not Detected | 3.2 | Not Detected |
| 1,1-Dichloroethane | 0.90 | Not Detected | 3.6 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.90 | Not Detected | 2.6 | Not Detected |
| cis-1,2-Dichloroethene | 0.90 | Not Detected | 3.5 | Not Detected |
| Tetrahydrofuran | 0.90 | Not Detected | 2.6 | Not Detected |
| Chloroform | 0.90 | 19 | 4.4 | 93 |
| 1,1,1-Trichloroethane | 0.90 | Not Detected | 4.9 | Not Detected |
| Cyclohexane | 0.90 | Not Detected | 3.1 | Not Detected |
| Carbon Tetrachloride | 0.90 | Not Detected | 5.6 | Not Detected |
| 2,2,4-Trimethylpentane | 0.90 | Not Detected | 4.2 | Not Detected |
| Benzene | 0.90 | Not Detected | 2.8 | Not Detected |
| 1,2-Dichloroethane | 0.90 | Not Detected | 3.6 | Not Detected |
| Heptane | 0.90 | Not Detected | 3.7 | Not Detected |
| Trichloroethene | 0.90 | Not Detected | 4.8 | Not Detected |
| 1,2-Dichloropropane | 0.90 | Not Detected | 4.1 | Not Detected |
| 1,4-Dioxane | 3.6 | Not Detected | 13 | Not Detected |
| Bromodichloromethane | 0.90 | Not Detected | 6.0 | Not Detected |
| cis-1,3-Dichloropropene | 0.90 | Not Detected | 4.1 | Not Detected |
| 4-Methyl-2-pentanone | 0.90 | Not Detected | 3.7 | Not Detected |
| Toluene | 0.90 | Not Detected | 3.4 | Not Detected |
| trans-1,3-Dichloropropene | 0.90 | Not Detected | 4.1 | Not Detected |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1401 Leo SS 122707**

**Lab ID#: 0712590A-01A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **5010207** | **Date of Collection:** | **12/27/07** |
| **Dil. Factor:** | **1.79** | **Date of Analysis:** | **1/2/08 01:04 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,1,2-Trichloroethane | 0.90 | Not Detected | 4.9 | Not Detected |
| Tetrachloroethene | 0.90 | 1.3 | 6.1 | 8.8 |
| 2-Hexanone | 3.6 | Not Detected | 15 | Not Detected |
| Dibromochloromethane | 0.90 | Not Detected | 7.6 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.90 | Not Detected | 6.9 | Not Detected |
| Chlorobenzene | 0.90 | Not Detected | 4.1 | Not Detected |
| Ethyl Benzene | 0.90 | Not Detected | 3.9 | Not Detected |
| m,p-Xylene | 0.90 | Not Detected | 3.9 | Not Detected |
| o-Xylene | 0.90 | Not Detected | 3.9 | Not Detected |
| Styrene | 0.90 | Not Detected | 3.8 | Not Detected |
| Bromoform | 0.90 | Not Detected | 9.2 | Not Detected |
| Cumene | 0.90 | Not Detected | 4.4 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.90 | Not Detected | 6.1 | Not Detected |
| Propylbenzene | 0.90 | Not Detected | 4.4 | Not Detected |
| 4-Ethyltoluene | 0.90 | Not Detected | 4.4 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.90 | Not Detected | 4.4 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.90 | Not Detected | 4.4 | Not Detected |
| 1,3-Dichlorobenzene | 0.90 | Not Detected | 5.4 | Not Detected |
| 1,4-Dichlorobenzene | 0.90 | Not Detected | 5.4 | Not Detected |
| alpha-Chlorotoluene | 0.90 | Not Detected | 4.6 | Not Detected |
| 1,2-Dichlorobenzene | 0.90 | Not Detected | 5.4 | Not Detected |
| 1,2,4-Trichlorobenzene | 3.6 | Not Detected | 26 | Not Detected |
| Hexachlorobutadiene | 3.6 | Not Detected | 38 | Not Detected |

**Container Type: 6 Liter Summa Canister**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| Toluene-d8 | 92 | 70-130 |
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| 4-Bromofluorobenzene | 95 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1401 Leo IA 122707**

**Lab ID#: 0712590B-02A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y010507** | **Date of Collection:** | **12/27/07** |
| **Dil. Factor:** | **1.68** | **Date of Analysis:** | **1/5/08 02:50 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.17 | 0.62 | 0.83 | 3.0 |
| Freon 114 | 0.17 | Not Detected | 1.2 | Not Detected |
| Chloromethane | 0.17 | Not Detected | 0.35 | Not Detected |
| Vinyl Chloride | 0.17 | Not Detected | 0.43 | Not Detected |
| 1,3-Butadiene | 0.17 | Not Detected | 0.37 | Not Detected |
| Bromomethane | 0.17 | Not Detected | 0.65 | Not Detected |
| Chloroethane | 0.17 | Not Detected | 0.44 | Not Detected |
| Freon 11 | 0.17 | 0.40 | 0.94 | 2.3 |
| Ethanol | 0.84 | 10 J | 1.6 | 19 J |
| Freon 113 | 0.17 | Not Detected | 1.3 | Not Detected |
| 1,1-Dichloroethene | 0.17 | Not Detected | 0.67 | Not Detected |
| Acetone | 0.84 | 7.9 | 2.0 | 19 |
| 2-Propanol | 0.84 | 2.0 | 2.1 | 4.8 |
| Carbon Disulfide | 0.84 | Not Detected | 2.6 | Not Detected |
| Methylene Chloride | 0.34 | Not Detected | 1.2 | Not Detected |
| Methyl tert-butyl ether | 0.17 | Not Detected U J | 0.60 | Not Detected U J |
| trans-1,2-Dichloroethene | 0.17 | Not Detected | 0.67 | Not Detected |
| Hexane | 0.17 | 0.35 | 0.59 | 1.2 |
| 1,1-Dichloroethane | 0.17 | Not Detected | 0.68 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.17 | 0.65 | 0.50 | 1.9 |
| cis-1,2-Dichloroethene | 0.17 | Not Detected | 0.67 | Not Detected |
| Tetrahydrofuran | 0.84 | Not Detected | 2.5 | Not Detected |
| Chloroform | 0.17 | Not Detected | 0.82 | Not Detected |
| 1,1,1-Trichloroethane | 0.17 | Not Detected | 0.92 | Not Detected |
| Cyclohexane | 0.17 | Not Detected | 0.58 | Not Detected |
| Carbon Tetrachloride | 0.17 | Not Detected | 1.0 | Not Detected |
| Benzene | 0.17 | 0.29 | 0.54 | 0.93 |
| 1,2-Dichloroethane | 0.17 | Not Detected | 0.68 | Not Detected |
| Heptane | 0.17 | 0.19 | 0.69 | 0.76 |
| Trichloroethene | 0.17 | Not Detected | 0.90 | Not Detected |
| 1,2-Dichloropropane | 0.17 | Not Detected | 0.78 | Not Detected |
| 1,4-Dioxane | 0.17 | Not Detected | 0.60 | Not Detected |
| Bromodichloromethane | 0.17 | Not Detected | 1.1 | Not Detected |
| cis-1,3-Dichloropropene | 0.17 | Not Detected | 0.76 | Not Detected |
| 4-Methyl-2-pentanone | 0.17 | Not Detected | 0.69 | Not Detected |
| Toluene | 0.17 | 1.0 | 0.63 | 3.8 |
| trans-1,3-Dichloropropene | 0.17 | Not Detected | 0.76 | Not Detected |
| 1,1,2-Trichloroethane | 0.17 | Not Detected | 0.92 | Not Detected |
| Tetrachloroethene | 0.17 | Not Detected | 1.1 | Not Detected |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1401 Leo IA 122707**

**Lab ID#: 0712590B-02A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y010507** | **Date of Collection:** | **12/27/07** |
| **Dil. Factor:** | **1.68** | **Date of Analysis:** | **1/5/08 02:50 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 2-Hexanone | 0.84 | Not Detected | 3.4 | Not Detected |
| Dibromochloromethane | 0.17 | Not Detected | 1.4 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.17 | Not Detected | 1.3 | Not Detected |
| Chlorobenzene | 0.17 | Not Detected | 0.77 | Not Detected |
| Ethyl Benzene | 0.17 | Not Detected | 0.73 | Not Detected |
| m,p-Xylene | 0.17 | 0.28 | 0.73 | 1.2 |
| o-Xylene | 0.17 | Not Detected | 0.73 | Not Detected |
| Styrene | 0.17 | Not Detected | 0.72 | Not Detected |
| Bromoform | 0.17 | Not Detected | 1.7 | Not Detected |
| Cumene | 0.17 | Not Detected | 0.82 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.17 | Not Detected | 1.2 | Not Detected |
| Propylbenzene | 0.17 | Not Detected | 0.82 | Not Detected |
| 4-Ethyltoluene | 0.17 | Not Detected | 0.82 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.17 | Not Detected | 0.82 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.17 | Not Detected | 0.82 | Not Detected |
| 1,3-Dichlorobenzene | 0.17 | Not Detected | 1.0 | Not Detected |
| 1,4-Dichlorobenzene | 0.17 | Not Detected | 1.0 | Not Detected |
| alpha-Chlorotoluene | 0.17 | Not Detected | 0.87 | Not Detected |
| 1,2-Dichlorobenzene | 0.17 | Not Detected | 1.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.84 | Not Detected | 6.2 | Not Detected |
| Hexachlorobutadiene | 0.84 | Not Detected | 9.0 | Not Detected |

J = Estimated value due to bias in the CCV.
UJ = Non-detected compound associated with low bias in the CCV

**Container Type: 6 Liter Summa Canister (100% Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 88 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1401LeoSS032608**

**Lab ID#: 0803624A-03A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **7040120** | **Date of Collection:** | **3/26/08** |
| **Dil. Factor:** | **1.71** | **Date of Analysis:** | **4/1/08 11:50 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.86 | Not Detected | 4.2 | Not Detected |
| Freon 114 | 0.86 | Not Detected | 6.0 | Not Detected |
| Chloromethane | 3.4 | Not Detected | 7.1 | Not Detected |
| Vinyl Chloride | 0.86 | Not Detected | 2.2 | Not Detected |
| 1,3-Butadiene | 0.86 | Not Detected | 1.9 | Not Detected |
| Bromomethane | 0.86 | Not Detected | 3.3 | Not Detected |
| Chloroethane | 0.86 | Not Detected | 2.2 | Not Detected |
| Freon 11 | 0.86 | 2.1 | 4.8 | 12 |
| Ethanol | 3.4 | Not Detected | 6.4 | Not Detected |
| Freon 113 | 0.86 | Not Detected | 6.6 | Not Detected |
| 1,1-Dichloroethene | 0.86 | Not Detected | 3.4 | Not Detected |
| Acetone | 3.4 | Not Detected | 8.1 | Not Detected |
| 2-Propanol | 3.4 | Not Detected | 8.4 | Not Detected |
| Carbon Disulfide | 0.86 | Not Detected | 2.7 | Not Detected |
| 3-Chloropropene | 3.4 | Not Detected | 11 | Not Detected |
| Methylene Chloride | 0.86 | Not Detected | 3.0 | Not Detected |
| Methyl tert-butyl ether | 0.86 | Not Detected | 3.1 | Not Detected |
| trans-1,2-Dichloroethene | 0.86 | Not Detected | 3.4 | Not Detected |
| Hexane | 0.86 | Not Detected | 3.0 | Not Detected |
| 1,1-Dichloroethane | 0.86 | Not Detected | 3.5 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.86 | Not Detected | 2.5 | Not Detected |
| cis-1,2-Dichloroethene | 0.86 | Not Detected | 3.4 | Not Detected |
| Tetrahydrofuran | 0.86 | Not Detected | 2.5 | Not Detected |
| Chloroform | 0.86 | 30 | 4.2 | 140 |
| 1,1,1-Trichloroethane | 0.86 | Not Detected | 4.7 | Not Detected |
| Cyclohexane | 0.86 | Not Detected | 2.9 | Not Detected |
| Carbon Tetrachloride | 0.86 | Not Detected | 5.4 | Not Detected |
| 2,2,4-Trimethylpentane | 0.86 | Not Detected | 4.0 | Not Detected |
| Benzene | 0.86 | Not Detected | 2.7 | Not Detected |
| 1,2-Dichloroethane | 0.86 | Not Detected | 3.5 | Not Detected |
| Heptane | 0.86 | Not Detected | 3.5 | Not Detected |
| Trichloroethene | 0.86 | Not Detected | 4.6 | Not Detected |
| 1,2-Dichloropropane | 0.86 | Not Detected | 4.0 | Not Detected |
| 1,4-Dioxane | 3.4 | Not Detected | 12 | Not Detected |
| Bromodichloromethane | 0.86 | Not Detected | 5.7 | Not Detected |
| cis-1,3-Dichloropropene | 0.86 | Not Detected | 3.9 | Not Detected |
| 4-Methyl-2-pentanone | 0.86 | Not Detected | 3.5 | Not Detected |
| Toluene | 0.86 | Not Detected | 3.2 | Not Detected |
| trans-1,3-Dichloropropene | 0.86 | Not Detected | 3.9 | Not Detected |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 1401LeoSS032608**

**Lab ID#: 0803624A-03A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **7040120** | **Date of Collection:** | **3/26/08** |
| **Dil. Factor:** | **1.71** | **Date of Analysis:** | **4/1/08 11:50 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,1,2-Trichloroethane | 0.86 | Not Detected | 4.7 | Not Detected |
| Tetrachloroethene | 0.86 | 1.8 | 5.8 | 12 |
| 2-Hexanone | 3.4 | Not Detected | 14 | Not Detected |
| Dibromochloromethane | 0.86 | Not Detected | 7.3 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.86 | Not Detected | 6.6 | Not Detected |
| Chlorobenzene | 0.86 | Not Detected | 3.9 | Not Detected |
| Ethyl Benzene | 0.86 | Not Detected | 3.7 | Not Detected |
| m,p-Xylene | 0.86 | Not Detected | 3.7 | Not Detected |
| o-Xylene | 0.86 | Not Detected | 3.7 | Not Detected |
| Styrene | 0.86 | Not Detected | 3.6 | Not Detected |
| Bromoform | 0.86 | Not Detected | 8.8 | Not Detected |
| Cumene | 0.86 | Not Detected | 4.2 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.86 | Not Detected | 5.9 | Not Detected |
| Propylbenzene | 0.86 | Not Detected | 4.2 | Not Detected |
| 4-Ethyltoluene | 0.86 | Not Detected | 4.2 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.86 | Not Detected | 4.2 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.86 | Not Detected | 4.2 | Not Detected |
| 1,3-Dichlorobenzene | 0.86 | Not Detected | 5.1 | Not Detected |
| 1,4-Dichlorobenzene | 0.86 | Not Detected | 5.1 | Not Detected |
| alpha-Chlorotoluene | 0.86 | Not Detected | 4.4 | Not Detected |
| 1,2-Dichlorobenzene | 0.86 | Not Detected | 5.1 | Not Detected |
| 1,2,4-Trichlorobenzene | 3.4 | Not Detected | 25 | Not Detected |
| Hexachlorobutadiene | 3.4 | Not Detected | 36 | Not Detected |

**Container Type: 6 Liter Summa Canister**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| Toluene-d8 | 89 | 70-130 |
| 1,2-Dichloroethane-d4 | 120 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 140LeoIA032608**

**Lab ID#: 0803624B-08A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y033122** | **Date of Collection:** | **3/26/08** |
| **Dil. Factor:** | **1.68** | **Date of Analysis:** | **4/1/08 12:47 AM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.17 | 0.54 | 0.83 | 2.7 |
| Freon 114 | 0.17 | Not Detected | 1.2 | Not Detected |
| Chloromethane | 0.17 | 1.4 | 0.35 | 3.0 |
| Vinyl Chloride | 0.17 | Not Detected | 0.43 | Not Detected |
| 1,3-Butadiene | 0.17 | Not Detected | 0.37 | Not Detected |
| Bromomethane | 0.17 | Not Detected | 0.65 | Not Detected |
| Chloroethane | 0.17 | Not Detected U J | 0.44 | Not Detected U J |
| Freon 11 | 0.17 | 0.25 | 0.94 | 1.4 |
| Ethanol | 0.84 | 6.8 | 1.6 | 13 |
| Freon 113 | 0.17 | Not Detected | 1.3 | Not Detected |
| 1,1-Dichloroethene | 0.17 | Not Detected | 0.67 | Not Detected |
| Acetone | 0.84 | 23 | 2.0 | 54 |
| 2-Propanol | 0.84 | 1.8 | 2.1 | 4.3 |
| Carbon Disulfide | 0.84 | Not Detected | 2.6 | Not Detected |
| Methylene Chloride | 0.34 | Not Detected | 1.2 | Not Detected |
| Methyl tert-butyl ether | 0.17 | Not Detected | 0.60 | Not Detected |
| trans-1,2-Dichloroethene | 0.17 | Not Detected | 0.67 | Not Detected |
| Hexane | 0.17 | 0.23 | 0.59 | 0.80 |
| 1,1-Dichloroethane | 0.17 | Not Detected | 0.68 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.17 | 1.7 | 0.50 | 5.0 |
| cis-1,2-Dichloroethene | 0.17 | Not Detected | 0.67 | Not Detected |
| Tetrahydrofuran | 0.84 | Not Detected | 2.5 | Not Detected |
| Chloroform | 0.17 | Not Detected | 0.82 | Not Detected |
| 1,1,1-Trichloroethane | 0.17 | Not Detected | 0.92 | Not Detected |
| Cyclohexane | 0.17 | Not Detected | 0.58 | Not Detected |
| Carbon Tetrachloride | 0.17 | Not Detected | 1.0 | Not Detected |
| Benzene | 0.17 | 0.19 | 0.54 | 0.61 |
| 1,2-Dichloroethane | 0.17 | Not Detected | 0.68 | Not Detected |
| Heptane | 0.17 | Not Detected | 0.69 | Not Detected |
| Trichloroethene | 0.17 | Not Detected | 0.90 | Not Detected |
| 1,2-Dichloropropane | 0.17 | Not Detected | 0.78 | Not Detected |
| 1,4-Dioxane | 0.17 | Not Detected | 0.60 | Not Detected |
| Bromodichloromethane | 0.17 | Not Detected | 1.1 | Not Detected |
| cis-1,3-Dichloropropene | 0.17 | Not Detected | 0.76 | Not Detected |
| 4-Methyl-2-pentanone | 0.17 | Not Detected | 0.69 | Not Detected |
| Toluene | 0.17 | 0.32 | 0.63 | 1.2 |
| trans-1,3-Dichloropropene | 0.17 | Not Detected | 0.76 | Not Detected |
| 1,1,2-Trichloroethane | 0.17 | Not Detected | 0.92 | Not Detected |
| Tetrachloroethene | 0.17 | Not Detected | 1.1 | Not Detected |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 140LeoIA032608**

**Lab ID#: 0803624B-08A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y033122** | **Date of Collection:** | **3/26/08** |
| **Dil. Factor:** | **1.68** | **Date of Analysis:** | **4/1/08 12:47 AM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 2-Hexanone | 0.84 | Not Detected | 3.4 | Not Detected |
| Dibromochloromethane | 0.17 | Not Detected | 1.4 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.17 | Not Detected | 1.3 | Not Detected |
| Chlorobenzene | 0.17 | Not Detected | 0.77 | Not Detected |
| Ethyl Benzene | 0.17 | Not Detected | 0.73 | Not Detected |
| m,p-Xylene | 0.17 | Not Detected | 0.73 | Not Detected |
| o-Xylene | 0.17 | Not Detected | 0.73 | Not Detected |
| Styrene | 0.17 | Not Detected | 0.72 | Not Detected |
| Bromoform | 0.17 | Not Detected | 1.7 | Not Detected |
| Cumene | 0.17 | Not Detected | 0.82 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.17 | Not Detected | 1.2 | Not Detected |
| Propylbenzene | 0.17 | Not Detected | 0.82 | Not Detected |
| 4-Ethyltoluene | 0.17 | Not Detected | 0.82 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.17 | Not Detected | 0.82 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.17 | Not Detected | 0.82 | Not Detected |
| 1,3-Dichlorobenzene | 0.17 | Not Detected | 1.0 | Not Detected |
| 1,4-Dichlorobenzene | 0.17 | Not Detected | 1.0 | Not Detected |
| alpha-Chlorotoluene | 0.17 | Not Detected | 0.87 | Not Detected |
| 1,2-Dichlorobenzene | 0.17 | Not Detected | 1.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.84 | Not Detected | 6.2 | Not Detected |
| Hexachlorobutadiene | 0.84 | Not Detected | 9.0 | Not Detected |

UJ = Non-detected compound associated with low bias in the CCV

**Container Type: 6 Liter Summa Canister (100% Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 92 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

**BEHR VOC PLUME SITE**
**DAYTON, OHIO**
**DATA VALIDATION REPORT**

**Date:** March 12, 2009
**Laboratory:** DataChem Laboratories, Inc. (DataChem), Salt Lake City, Utah
**Laboratory SDG #/Set ID #:** 08I-1193-01 and 08I-1193-02
**Data Validation Performed By:** Lisa Graczyk, Weston Solutions, Inc. (WESTON) Superfund Technical Assessment and Response Team (START)
**Weston Analytical Work Order #/TDD #**: 20405.016.003.0121.00/S05-0612-007

This data validation report has been prepared by WESTON START, under the START III Region V contract. This report documents the data validation of air samples collected for the Behr VOC Plume Site that were analyzed for Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) method TO-15. The sample analyzed under work order 08I-1193-02, was analyzed according to method TO-15 but with modifications for SIM for low-level VOC analysis. DataChem submitted a Level II data package which contains sample results and summary reports for quality control (QC) samples only (calibration information and instrument printouts are not included). The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008.

## VOCs IN AIR BY U.S. EPA METHOD TO-15

### 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

| Samples | Lab ID | Date Collected | Date Analyzed |
|---|---|---|---|
| 1401LEOSS122208 | 08I07020 | 12/22/08 | 12/29/08 |
| 1401LEOIA122208 | 08I07021 | 12/22/08 | 12/31/08 |

### 2. Holding Times

The samples were analyzed within the required holding time limit of 30 days from sample collection in accordance with method TO-15.

## 3. Blanks

The method blanks associated with the samples were free of target compound contamination.

## 4. Surrogate Results

The 4-bromofluorobenzene surrogate spike recoveries in the samples were acceptable.

## 5. Laboratory Control Sample (LCS) Results

The LCS recoveries and LCS duplicate (LCSD) recoveries were within the laboratory-established QC limits of 65 to 135 percent recovery for the low-level SIM analysis and 70 to 130 percent recovery for the standard TO-15 analysis except for as follows.

In work order 08I-1193-01, benzyl chloride was detected high in the LCS and dichlorodifluoromethane was detected low in the LCSD. In addition the relative percent difference (RPD) between the LCS and LCSD was 34 (above the QC limit of 25 RPD). Because benzyl chloride was not detected in the sample associated with this work order, no qualification was required. The result for dichlorodifluoromethane in the sample associated with this work order was flagged “J” as estimated.

## 6. Overall Data Assessment

Some results were flagged “J” by the laboratory because they were detected below the reporting limit. These results should be considered estimated and were flagged “J” to indicate this. The data are acceptable for use as qualified based on the information received.

# ATTACHMENT

## DATACHEM LABORATORIES
## RESULTS SUMMARY

DATA CHEM LABORATORIES
A Sorenson Company

# FORM A (TYPE I)
## SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
01020910220022


S08CT01V

## SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 02-JAN-09 10:22

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 20405.016.003.0121.00
Sampling Site.....: Behr PRP Voc Plume
Release Number.....: 20405.016.003.0121.00

Date Received.....: 24-DEC-08 00:00

Client Sample Name: 1401LEOSS|108860
DCL Sample Name...: 08I07020
DCL Report Group..: 08I-1193-01

Matrix.....: AIR
Date Sampled.....: 22-DEC-08 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G08CY005
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 29-DEC-08 15:37 | 4.3 | 110 J | ppb v/v | | 10 | 5.0 |
| Dichlorodifluoromethane | 29-DEC-08 15:37 | 21. | 540 J | µg/m³ | | 10 | 25. |
| Chloromethane | 29-DEC-08 15:37 | 0.405 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 29-DEC-08 15:37 | 0.84 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 29-DEC-08 15:37 | 0.409 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 29-DEC-08 15:37 | 2.9 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 29-DEC-08 15:37 | 0.443 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 29-DEC-08 15:37 | 1.1 | ND | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 29-DEC-08 15:37 | 0.338 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 29-DEC-08 15:37 | 0.75 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 29-DEC-08 15:37 | 0.326 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 29-DEC-08 15:37 | 1.3 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 29-DEC-08 15:37 | 0.267 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 29-DEC-08 15:37 | 0.70 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 29-DEC-08 15:37 | 0.384 | ND | ppb v/v | | 1 | 0.5 |
| Freon 11 | 29-DEC-08 15:37 | 2.2 | ND | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 29-DEC-08 15:37 | 0.387 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,2-Dichloroethene | 29-DEC-08 15:37 | 1.5 | ND | µg/m³ | | 1 | 2.0 |
| Carbon Disulfide | 29-DEC-08 15:37 | 0.388 | 2.4 | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 29-DEC-08 15:37 | 1.2 | 7.4 | µg/m³ | | 1 | 1.6 |
| Freon 113 | 29-DEC-08 15:37 | 0.369 | ND | ppb v/v | | 1 | 0.5 |
| Freon 113 | 29-DEC-08 15:37 | 2.8 | ND | µg/m³ | | 1 | 3.8 |
| Acetone | 29-DEC-08 15:37 | 2.0 | 38. | ppb v/v | | 10 | 5.0 |
| Acetone | 29-DEC-08 15:37 | 4.6 | 89. | µg/m³ | | 10 | 12. |
| Methylene Chloride | 29-DEC-08 15:37 | 0.339 | 0.37 J | ppb v/v | J | 1 | 0.5 |
| Methylene Chloride | 29-DEC-08 15:37 | 1.2 | 1.3 J | µg/m³ | J | 1 | 1.7 |
| trans-1,2-Dichloroethene | 29-DEC-08 15:37 | 0.437 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 29-DEC-08 15:37 | 1.7 | ND | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 29-DEC-08 15:37 | 0.355 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 29-DEC-08 15:37 | 1.4 | ND | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 29-DEC-08 15:37 | 0.255 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 29-DEC-08 15:37 | 0.92 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 29-DEC-08 15:37 | 0.222 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 29-DEC-08 15:37 | 0.78 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 29-DEC-08 15:37 | 0.390 | ND | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 29-DEC-08 15:37 | 1.5 | ND | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 29-DEC-08 15:37 | 0.248 | 3.3 | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 29-DEC-08 15:37 | 0.73 | 9.7 | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 29-DEC-08 15:37 | 0.261 | 0.35 J | ppb v/v | J | 1 | 0.5 |
| Ethyl Acetate | 29-DEC-08 15:37 | 0.94 | 1.3 J | µg/m³ | J | 1 | 1.8 |
| Hexane | 29-DEC-08 15:37 | 0.287 | 7.1 | ppb v/v | | 1 | 0.5 |

LD 3/12/09

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
Phone (801) 266-7700 Web Page: www.datachem.com
FAX (801) 268-9992 E-mail: lab@datachem.com

DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S08CT01V

Date Printed.....: 02-JAN-09 10:22
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I07020
DCL Report Group..: 08I-1193-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 29-DEC-08 15:37 | 1.0 | 25. | µg/m³ | | 1 | 1.8 |
| Chloroform | 29-DEC-08 15:37 | 0.350 | ND | ppb v/v | | 1 | 0.5 |
| Chloroform | 29-DEC-08 15:37 | 1.7 | ND | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 29-DEC-08 15:37 | 0.321 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,1-Trichloroethane | 29-DEC-08 15:37 | 1.8 | ND | µg/m³ | | 1 | 2.7 |
| Carbon Tetrachloride | 29-DEC-08 15:37 | 0.281 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 29-DEC-08 15:37 | 1.8 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 29-DEC-08 15:37 | 0.314 | 3.3 | ppb v/v | | 1 | 0.5 |
| Benzene | 29-DEC-08 15:37 | 1.0 | 11. | µg/m³ | | 1 | 1.6 |
| Tetrahydrofuran | 29-DEC-08 15:37 | 0.350 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 29-DEC-08 15:37 | 1.0 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 29-DEC-08 15:37 | 0.297 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 29-DEC-08 15:37 | 1.2 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 29-DEC-08 15:37 | 0.359 | 4.0 | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 29-DEC-08 15:37 | 1.2 | 14. | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 29-DEC-08 15:37 | 0.291 | ND | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 29-DEC-08 15:37 | 1.6 | ND | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 29-DEC-08 15:37 | 0.318 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 29-DEC-08 15:37 | 1.5 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 29-DEC-08 15:37 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 29-DEC-08 15:37 | 1.5 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 29-DEC-08 15:37 | 0.302 | 4.8 | ppb v/v | | 1 | 0.5 |
| Heptane | 29-DEC-08 15:37 | 1.2 | 20. | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 29-DEC-08 15:37 | 0.289 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 29-DEC-08 15:37 | 1.3 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 29-DEC-08 15:37 | 0.212 | 0.47 J | ppb v/v | J | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 29-DEC-08 15:37 | 0.87 | 1.9 J | µg/m³ | J | 1 | 2.0 |
| Toluene | 29-DEC-08 15:37 | 0.279 | 9.6 | ppb v/v | | 1 | 0.5 |
| Toluene | 29-DEC-08 15:37 | 1.1 | 36. | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 29-DEC-08 15:37 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 29-DEC-08 15:37 | 1.0 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 29-DEC-08 15:37 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 29-DEC-08 15:37 | 1.2 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 29-DEC-08 15:37 | 0.350 | ND | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 29-DEC-08 15:37 | 2.4 | ND | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 29-DEC-08 15:37 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 29-DEC-08 15:37 | 1.4 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 29-DEC-08 15:37 | 0.288 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 29-DEC-08 15:37 | 2.4 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 29-DEC-08 15:37 | 0.315 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 29-DEC-08 15:37 | 2.4 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 29-DEC-08 15:37 | 0.270 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 29-DEC-08 15:37 | 1.2 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 29-DEC-08 15:37 | 0.307 | 3.1 | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 29-DEC-08 15:37 | 1.3 | 14. | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 29-DEC-08 15:37 | 0.520 | 5.3 | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 29-DEC-08 15:37 | 2.3 | 23. | µg/m³ | | 1 | 4.3 |
| o-Xylene | 29-DEC-08 15:37 | 0.262 | 2.6 | ppb v/v | | 1 | 0.5 |
| o-Xylene | 29-DEC-08 15:37 | 1.1 | 11. | µg/m³ | | 1 | 2.2 |
| Styrene | 29-DEC-08 15:37 | 0.227 | 0.29 J | ppb v/v | J | 1 | 0.5 |
| Styrene | 29-DEC-08 15:37 | 0.97 | 1.2 J | µg/m³ | J | 1 | 2.1 |
| Bromoform | 29-DEC-08 15:37 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 29-DEC-08 15:37 | 2.3 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 29-DEC-08 15:37 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 29-DEC-08 15:37 | 1.7 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 29-DEC-08 15:37 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 29-DEC-08 15:37 | 1.3 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 29-DEC-08 15:37 | 0.183 | 0.60 | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S08CT01V

Date Printed.....: 02-JAN-09 10:22
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **08I07020**
DCL Report Group..: **08I-1193-01**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 29-DEC-08 15:37 | 0.90 | 3.0 | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 29-DEC-08 15:37 | 0.248 | 0.91 | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 29-DEC-08 15:37 | 1.2 | 4.5 | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 29-DEC-08 15:37 | 0.224 | 3.0 | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 29-DEC-08 15:37 | 1.1 | 15. | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 29-DEC-08 15:37 | 0.236 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 29-DEC-08 15:37 | 1.4 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 29-DEC-08 15:37 | 0.303 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 29-DEC-08 15:37 | 1.8 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 29-DEC-08 15:37 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 29-DEC-08 15:37 | 1.3 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 29-DEC-08 15:37 | 0.361 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 29-DEC-08 15:37 | 2.7 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 29-DEC-08 15:37 | 0.241 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 29-DEC-08 15:37 | 2.6 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Isobutane(4.28) | 29-DEC-08 15:37 | 8.2 | ppb v/v | J | 1 |
| Butane(4.51) | 29-DEC-08 15:37 | 6.6 | ppb v/v | J | 1 |
| Ethanol(4.97) | 29-DEC-08 15:37 | 7.9 | ppb v/v | J | 1 |
| Isopropyl Alcohol(5.48) | 29-DEC-08 15:37 | 16. | ppb v/v | J | 1 |
| Pentane(5.65) | 29-DEC-08 15:37 | 4.7 | ppb v/v | J | 1 |
| Pentane, 2-methyl-(6.93) | 29-DEC-08 15:37 | 4.0 | ppb v/v | J | 1 |
| Pentane, 3-methyl-(7.25) | 29-DEC-08 15:37 | 3.1 | ppb v/v | J | 1 |
| CYCLOPENTANE, METHYL-(8.27) | 29-DEC-08 15:37 | 3.3 | ppb v/v | J | 1 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S08CT01W

Date Printed.....: 05-JAN-09 11:42

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 20405.016.003.0121.00
Sampling Site.....: Behr PRP Voc Plume
Release Number.....: 20405.016.003.0121.00

Date Received.....: 24-DEC-08 00:00

Client Sample Name: 1401LEOIA|108713
DCL Sample Name...: 08I07021
DCL Report Group..: 08I-1193-02

Matrix.....: AIR
Date Sampled.....: 22-DEC-08 00:00
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G0901001
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-O
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 31-DEC-08 18:28 | | 1.2 | ppb v/v | | 1 | 0.05 |
| Dichlorodifluoromethane | 31-DEC-08 18:28 | | 6.1 | µg/m³ | | 1 | 0.25 |
| Chloromethane | 31-DEC-08 18:28 | | 0.38 | ppb v/v | | 1 | 0.05 |
| Chloromethane | 31-DEC-08 18:28 | | 0.79 | µg/m³ | | 1 | 0.10 |
| Freon 114 | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Freon 114 | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.35 |
| Vinyl Chloride | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Vinyl Chloride | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.13 |
| 1,3-Butadiene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 1,3-Butadiene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.11 |
| Bromomethane | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Bromomethane | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.19 |
| Chloroethane | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Chloroethane | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.13 |
| Freon 11 | 31-DEC-08 18:28 | | 0.47 | ppb v/v | | 1 | 0.05 |
| Freon 11 | 31-DEC-08 18:28 | | 2.7 | µg/m³ | | 1 | 0.28 |
| cis-1,2-Dichloroethene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| cis-1,2-Dichloroethene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.20 |
| Carbon Disulfide | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Carbon Disulfide | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.16 |
| Freon 113 | 31-DEC-08 18:28 | | 0.057 | ppb v/v | | 1 | 0.05 |
| Freon 113 | 31-DEC-08 18:28 | | 0.43 | µg/m³ | | 1 | 0.38 |
| Acetone | 31-DEC-08 18:28 | | 2.1 | ppb v/v | | 10 | 0.50 |
| Acetone | 31-DEC-08 18:28 | | 4.9 | µg/m³ | | 10 | 1.2 |
| Methylene Chloride | 31-DEC-08 18:28 | | 0.11 | ppb v/v | | 1 | 0.05 |
| Methylene Chloride | 31-DEC-08 18:28 | | 0.40 | µg/m³ | | 1 | 0.17 |
| trans-1,2-Dichloroethene | 31-DEC-08 18:28 | | 0.084 | ppb v/v | | 1 | 0.05 |
| trans-1,2-Dichloroethene | 31-DEC-08 18:28 | | 0.33 | µg/m³ | | 1 | 0.20 |
| 1,1-Dichloroethane | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1-Dichloroethane | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.20 |
| Methyl t-Butyl Ether | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Methyl t-Butyl Ether | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.18 |
| Vinyl Acetate | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Vinyl Acetate | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.18 |
| 1,1-Dichloroethene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1-Dichloroethene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.20 |
| 2-Butanone | 31-DEC-08 18:28 | | 0.13 | ppb v/v | | 1 | 0.05 |
| 2-Butanone | 31-DEC-08 18:28 | | 0.39 | µg/m³ | | 1 | 0.15 |
| Ethyl Acetate | 31-DEC-08 18:28 | | 0.067 | ppb v/v | | 1 | 0.05 |
| Ethyl Acetate | 31-DEC-08 18:28 | | 0.24 | µg/m³ | | 1 | 0.18 |
| Hexane | 31-DEC-08 18:28 | | 0.13 | ppb v/v | | 1 | 0.05 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S08CT01W

Date Printed.....: 05-JAN-09 10:26
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I07021
DCL Report Group..: 08I-1193-02

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 31-DEC-08 18:28 | | 0.46 | µg/m³ | | 1 | 0.18 |
| Chloroform | 31-DEC-08 18:28 | | 0.067 | ppb v/v | | 1 | 0.05 |
| Chloroform | 31-DEC-08 18:28 | | 0.33 | µg/m³ | | 1 | 0.24 |
| 1,1,1-Trichloroethane | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1,1-Trichloroethane | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.27 |
| Carbon Tetrachloride | 31-DEC-08 18:28 | | 0.061 | ppb v/v | | 1 | 0.05 |
| Carbon Tetrachloride | 31-DEC-08 18:28 | | 0.38 | µg/m³ | | 1 | 0.31 |
| Benzene | 31-DEC-08 18:28 | | 0.16 | ppb v/v | | 1 | 0.05 |
| Benzene | 31-DEC-08 18:28 | | 0.52 | µg/m³ | | 1 | 0.16 |
| Tetrahydrofuran | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Tetrahydrofuran | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.15 |
| 1,2-Dichloroethane | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dichloroethane | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.20 |
| Cyclohexane | 31-DEC-08 18:28 | | 0.051 | ppb v/v | | 1 | 0.05 |
| Cyclohexane | 31-DEC-08 18:28 | | 0.18 | µg/m³ | | 1 | 0.17 |
| Trichloroethene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Trichloroethene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.27 |
| 1,2-Dichloropropane | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dichloropropane | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.23 |
| Bromodichloromethane | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Bromodichloromethane | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.33 |
| Heptane | 31-DEC-08 18:28 | | 0.052 | ppb v/v | | 1 | 0.05 |
| Heptane | 31-DEC-08 18:28 | | 0.21 | µg/m³ | | 1 | 0.20 |
| cis-1,3-Dichloropropene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| cis-1,3-Dichloropropene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.23 |
| 4-Methyl-2-Pentanone | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 4-Methyl-2-Pentanone | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.20 |
| Toluene | 31-DEC-08 18:28 | | 0.36 | ppb v/v | | 1 | 0.05 |
| Toluene | 31-DEC-08 18:28 | | 1.4 | µg/m³ | | 1 | 0.19 |
| trans-1,3-Dichloropropene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| trans-1,3-Dichloropropene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.23 |
| 1,1,2-Trichloroethane | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1,2-Trichloroethane | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.27 |
| Tetrachloroethene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Tetrachloroethene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.34 |
| 2-Hexanone | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 2-Hexanone | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.20 |
| Dibromochloromethane | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Dibromochloromethane | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.42 |
| 1,2-Dibromoethane | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dibromoethane | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.38 |
| Chlorobenzene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Chlorobenzene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.23 |
| Ethylbenzene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Ethylbenzene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.22 |
| m,p-Xylene | 31-DEC-08 18:28 | | 0.11 | ppb v/v | | 1 | 0.05 |
| m,p-Xylene | 31-DEC-08 18:28 | | 0.46 | µg/m³ | | 1 | 0.22 |
| o-Xylene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| o-Xylene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.22 |
| Styrene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Styrene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.21 |
| Bromoform | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Bromoform | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.51 |
| 1,1,2,2-Tetrachloroethane | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 1,1,2,2-Tetrachloroethane | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.34 |
| Benzyl Chloride | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Benzyl Chloride | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.26 |
| 4-Ethyl toluene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S08CT01W

Date Printed.....: 05-JAN-09 10:26
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: **08I07021**
DCL Report Group..: **08I-1193-02**

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.25 |
| 1,3,5-Trimethylbenzene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 1,3,5-Trimethylbenzene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.25 |
| 1,2,4-Trimethylbenzene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2,4-Trimethylbenzene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.25 |
| 1,3-Dichlorobenzene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 1,3-Dichlorobenzene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.30 |
| 1,4-Dichlorobenzene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 1,4-Dichlorobenzene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.30 |
| 1,2-Dichlorobenzene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2-Dichlorobenzene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.30 |
| 1,2,4-Trichlorobenzene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| 1,2,4-Trichlorobenzene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.37 |
| Hexachlorobutadiene | 31-DEC-08 18:28 | | ND | ppb v/v | | 1 | 0.05 |
| Hexachlorobutadiene | 31-DEC-08 18:28 | | ND | µg/m³ | | 1 | 0.53 |

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**BEHR VOC PLUME SITE**
**DAYTON, OHIO**
**DATA VALIDATION REPORT**

**Date:** December 2, 2008
**Laboratory:** DataChem Laboratories, Inc. (DataChem), Salt Lake City, Utah
**Laboratory SDG #/Set ID #:** 08I-1030-01
**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)
**Weston Analytical Work Order #/TDD #**: 20405.016.003.0121.00/S05-0612-007

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation of air samples collected for the Behr VOC Plume Site that were analyzed for Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) method TO-15. DataChem submitted a Level II data package which contains sample results and summary reports for quality control (QC) samples only (calibration information and instrument printouts are not included). The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008.

## VOCs IN AIR BY U.S. EPA METHOD TO15

### 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

| Samples | Lab ID | Date Collected | Date Analyzed |
|---|---|---|---|
| INF-101408 | 08I05995 | 10/14/08 | 10/15/08 |
| CARBON-101408 | 08I05996 | 10/14/08 | 10/16/08 |
| EFF-101408 | 08I05997 | 10/14/08 | 10/16/08 |

### 2. Holding Times

The samples were analyzed within the required holding time limit of 30 days from sample collection in accordance with method TO-15.

## 3. Blanks

The method blank associated with the samples was free of target compound contamination except for acetone at 0.56 part per billion by volume (ppb v/v). Because acetone was not detected in the samples, no qualification was required.

## 4. Surrogate Results

The 4-bromofluorobenzene surrogate spike recoveries in the samples were acceptable.

## 5. Laboratory Control Sample (LCS) Results

The LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits of 70 to 130 percent recovery except for as follows. Benzyl chloride was detected high in the LCS. Because benzyl chloride was not detected in the samples, no qualification was necessary. Hexachlorobutadiene and 1,2,4-trichlorobenzene were detected low in the LCS and LCS duplicate. The quantitation limits for hexachlorobutadiene and 1,2,4-trichlorobenzene were flagged “UJ” as estimated for this discrepancy.

The relative percent difference between the LCS and LCS duplicate samples was greater than the QC limit of 25 for 1,2,4-trichlorobenzene. Because this compound was not detected in the samples, no qualification is required.

## 6. Overall Data Assessment

The data are acceptable for use as qualified based on the information received.

# ATTACHMENT

## DATACHEM LABORATORIES
## RESULTS SUMMARY

DATA CHEM LABORATORIES
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# FORM A (TYPE I)
## SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
10210814023163


S089H01K

## SAMPLE ANALYSIS DATA SHEET

Date Printed.....: 21-OCT-08 14:02

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 20405.016.003.0121.00
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 20405.016.003.0121.00

Date Received.....: 15-OCT-08 00:00

Client Sample Name: **INF-101408|108706**
DCL Sample Name...: **08I05995**
DCL Report Group..: **08I-1030-01**

Matrix.....: SUMMA
Date Sampled.....: 14-OCT-08 12:56
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G089J003
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

### Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 15-OCT-08 23:44 | 0.432 | 0.68 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 15-OCT-08 23:44 | 2.1 | 3.3 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 15-OCT-08 23:44 | 0.405 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 15-OCT-08 23:44 | 0.84 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 15-OCT-08 23:44 | 0.409 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 15-OCT-08 23:44 | 2.9 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 15-OCT-08 23:44 | 0.443 | 2.7 | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 15-OCT-08 23:44 | 1.1 | 6.9 | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 15-OCT-08 23:44 | 0.338 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 15-OCT-08 23:44 | 0.75 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 15-OCT-08 23:44 | 0.326 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 15-OCT-08 23:44 | 1.3 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 15-OCT-08 23:44 | 0.267 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 15-OCT-08 23:44 | 0.70 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 15-OCT-08 23:44 | 0.384 | 0.40 | ppb v/v | J | 1 | 0.5 |
| Freon 11 | 15-OCT-08 23:44 | 2.2 | 2.2 | µg/m³ | J | 1 | 2.8 |
| cis-1,2-Dichloroethene | 15-OCT-08 23:44 | 3.9 | 510 | ppb v/v | E | 10 | 5.0 |
| cis-1,2-Dichloroethene | 15-OCT-08 23:44 | 15. | 2000 | µg/m³ | E | 10 | 20. |
| Carbon Disulfide | 15-OCT-08 23:44 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 15-OCT-08 23:44 | 1.2 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 15-OCT-08 23:44 | 0.369 | 2.2 | ppb v/v | | 1 | 0.5 |
| Freon 113 | 15-OCT-08 23:44 | 2.8 | 17. | µg/m³ | | 1 | 3.8 |
| Acetone | 15-OCT-08 23:44 | 0.195 | ND | ppb v/v | B | 1 | 0.5 |
| Acetone | 15-OCT-08 23:44 | 0.46 | ND | µg/m³ | B | 1 | 1.2 |
| Methylene Chloride | 15-OCT-08 23:44 | 0.339 | ND | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 15-OCT-08 23:44 | 1.2 | ND | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 15-OCT-08 23:44 | 0.437 | 13. | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 15-OCT-08 23:44 | 1.7 | 51. | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 15-OCT-08 23:44 | 3.6 | 29. | ppb v/v | | 10 | 5.0 |
| 1,1-Dichloroethane | 15-OCT-08 23:44 | 14. | 120 | µg/m³ | | 10 | 20. |
| Methyl t-Butyl Ether | 15-OCT-08 23:44 | 0.255 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 15-OCT-08 23:44 | 0.92 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 15-OCT-08 23:44 | 0.222 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 15-OCT-08 23:44 | 0.78 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 15-OCT-08 23:44 | 0.390 | 16. | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 15-OCT-08 23:44 | 1.5 | 64. | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 15-OCT-08 23:44 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 15-OCT-08 23:44 | 0.73 | ND | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 15-OCT-08 23:44 | 0.261 | ND | ppb v/v | | 1 | 0.5 |
| Ethyl Acetate | 15-OCT-08 23:44 | 0.94 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 15-OCT-08 23:44 | 0.287 | 7.5 | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S089H01K

Date Printed.....: 21-OCT-08 14:02
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I05995
DCL Report Group..: 08I-1030-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 15-OCT-08 23:44 | 1.0 | 26. | µg/m³ | | 1 | 1.8 |
| Chloroform | 15-OCT-08 23:44 | 3.5 | 25. | ppb v/v | | 10 | 5.0 |
| Chloroform | 15-OCT-08 23:44 | 17. | 120 | µg/m³ | | 10 | 24. |
| 1,1,1-Trichloroethane | 15-OCT-08 23:44 | 3.2 | 55. | ppb v/v | | 10 | 5.0 |
| 1,1,1-Trichloroethane | 15-OCT-08 23:44 | 18. | 300 | µg/m³ | | 10 | 27. |
| Carbon Tetrachloride | 15-OCT-08 23:44 | 0.281 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 15-OCT-08 23:44 | 1.8 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 15-OCT-08 23:44 | 0.314 | 1.0 | ppb v/v | | 1 | 0.5 |
| Benzene | 15-OCT-08 23:44 | 1.0 | 3.3 | µg/m³ | | 1 | 1.6 |
| Tetrahydrofuran | 15-OCT-08 23:44 | 0.350 | 1.6 | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 15-OCT-08 23:44 | 1.0 | 4.7 | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 15-OCT-08 23:44 | 0.297 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 15-OCT-08 23:44 | 1.2 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 15-OCT-08 23:44 | 0.359 | 4.1 | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 15-OCT-08 23:44 | 1.2 | 14. | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 15-OCT-08 23:44 | 2.9 | 3500 | ppb v/v | E | 10 | 5.0 |
| Trichloroethene | 15-OCT-08 23:44 | 16. | 19000 | µg/m³ | E | 10 | 27. |
| 1,2-Dichloropropane | 15-OCT-08 23:44 | 0.318 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 15-OCT-08 23:44 | 1.5 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 15-OCT-08 23:44 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 15-OCT-08 23:44 | 1.5 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 15-OCT-08 23:44 | 0.302 | ND | ppb v/v | | 1 | 0.5 |
| Heptane | 15-OCT-08 23:44 | 1.2 | ND | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 15-OCT-08 23:44 | 0.289 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 15-OCT-08 23:44 | 1.3 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 15-OCT-08 23:44 | 0.212 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 15-OCT-08 23:44 | 0.87 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 15-OCT-08 23:44 | 0.279 | 0.32 | ppb v/v | J | 1 | 0.5 |
| Toluene | 15-OCT-08 23:44 | 1.1 | 1.2 | µg/m³ | J | 1 | 1.9 |
| trans-1,3-Dichloropropene | 15-OCT-08 23:44 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 15-OCT-08 23:44 | 1.0 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 15-OCT-08 23:44 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 15-OCT-08 23:44 | 1.2 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 15-OCT-08 23:44 | 3.5 | 43. | ppb v/v | | 10 | 5.0 |
| Tetrachloroethene | 15-OCT-08 23:44 | 24. | 290 | µg/m³ | | 10 | 34. |
| 2-Hexanone | 15-OCT-08 23:44 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 15-OCT-08 23:44 | 1.4 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 15-OCT-08 23:44 | 0.288 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 15-OCT-08 23:44 | 2.4 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 15-OCT-08 23:44 | 0.315 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 15-OCT-08 23:44 | 2.4 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 15-OCT-08 23:44 | 0.270 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 15-OCT-08 23:44 | 1.2 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 15-OCT-08 23:44 | 0.307 | ND | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 15-OCT-08 23:44 | 1.3 | ND | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 15-OCT-08 23:44 | 0.520 | ND | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 15-OCT-08 23:44 | 2.3 | ND | µg/m³ | | 1 | 4.3 |
| o-Xylene | 15-OCT-08 23:44 | 0.262 | ND | ppb v/v | | 1 | 0.5 |
| o-Xylene | 15-OCT-08 23:44 | 1.1 | ND | µg/m³ | | 1 | 2.2 |
| Styrene | 15-OCT-08 23:44 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 15-OCT-08 23:44 | 0.97 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 15-OCT-08 23:44 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 15-OCT-08 23:44 | 2.3 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 15-OCT-08 23:44 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 15-OCT-08 23:44 | 1.7 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 15-OCT-08 23:44 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 15-OCT-08 23:44 | 1.3 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 15-OCT-08 23:44 | 0.183 | ND | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S089H01K

Date Printed.....: 21-OCT-08 14:02
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I05995
DCL Report Group..: 08I-1030-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 15-OCT-08 23:44 | 0.90 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 15-OCT-08 23:44 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 15-OCT-08 23:44 | 1.2 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 15-OCT-08 23:44 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 15-OCT-08 23:44 | 1.1 | ND | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 15-OCT-08 23:44 | 0.236 | 4.3 | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 15-OCT-08 23:44 | 1.4 | 26. | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 15-OCT-08 23:44 | 0.303 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 15-OCT-08 23:44 | 1.8 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 15-OCT-08 23:44 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 15-OCT-08 23:44 | 1.3 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 15-OCT-08 23:44 | 0.361 UJ | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 15-OCT-08 23:44 | 2.7 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 15-OCT-08 23:44 | 0.241 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 15-OCT-08 23:44 | 2.6 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Isobutane(4.27) | 15-OCT-08 23:44 | 130 | ppb v/v | J | 1 |
| Butane(4.50) | 15-OCT-08 23:44 | 52. | ppb v/v | J | 1 |
| Propane, 2,2-dimethyl-(4.61) | 15-OCT-08 23:44 | 12. | ppb v/v | J | 1 |
| Ethanol(4.99) | 15-OCT-08 23:44 | 5.8 | ppb v/v | J | 1 |
| Butane, 2-methyl-(5.27) | 15-OCT-08 23:44 | 61. | ppb v/v | J | 1 |
| Pentane(5.64) | 15-OCT-08 23:44 | 21. | ppb v/v | J | 1 |
| Butane, 2,2-dimethyl-(6.27) | 15-OCT-08 23:44 | 7.9 | ppb v/v | J | 1 |
| Pentane, 2-methyl-(6.92) | 15-OCT-08 23:44 | 11. | ppb v/v | J | 1 |
| Pentane, 3-methyl-(7.22) | 15-OCT-08 23:44 | 7.0 | ppb v/v | J | 1 |
| CYCLOPENTANE, METHYL-(8.26) | 15-OCT-08 23:44 | 4.3 | ppb v/v | J | 1 |
| CYCLOHEXANE, METHYL-(10.53) | 15-OCT-08 23:44 | 3.2 | ppb v/v | J | 1 |

JD
12/2/08

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# FORM A (TYPE I)
## SINGLE METHOD ANALYSES

## SAMPLE ANALYSIS DATA SHEET



S089H01L

Date Printed.....: 21-OCT-08 14:02

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 20405.016.003.0121.00
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 20405.016.003.0121.00

Date Received.....: 15-OCT-08 00:00

Client Sample Name: **CARBON-10140|108917**
DCL Sample Name...: **08I05996**
DCL Report Group..: **08I-1030-01**

Matrix.....: SUMMA
Date Sampled.....: 14-OCT-08 13:01
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G089J003
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 16-OCT-08 01:06 | 0.432 | 0.61 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 16-OCT-08 01:06 | 2.1 | 3.0 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 16-OCT-08 01:06 | 0.405 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 16-OCT-08 01:06 | 0.84 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 16-OCT-08 01:06 | 0.409 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 16-OCT-08 01:06 | 2.9 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 16-OCT-08 01:06 | 0.443 | 2.7 | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 16-OCT-08 01:06 | 1.1 | 6.8 | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 16-OCT-08 01:06 | 0.338 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 16-OCT-08 01:06 | 0.75 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 16-OCT-08 01:06 | 0.326 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 16-OCT-08 01:06 | 1.3 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 16-OCT-08 01:06 | 0.267 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 16-OCT-08 01:06 | 0.70 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 16-OCT-08 01:06 | 0.384 | ND | ppb v/v | | 1 | 0.5 |
| Freon 11 | 16-OCT-08 01:06 | 2.2 | ND | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 16-OCT-08 01:06 | 3.9 | 560 | ppb v/v | E | 10 | 5.0 |
| cis-1,2-Dichloroethene | 16-OCT-08 01:06 | 15. | 2200 | µg/m³ | E | 10 | 20. |
| Carbon Disulfide | 16-OCT-08 01:06 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 16-OCT-08 01:06 | 1.2 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 16-OCT-08 01:06 | 0.369 | 2.3 | ppb v/v | | 1 | 0.5 |
| Freon 113 | 16-OCT-08 01:06 | 2.8 | 18. | µg/m³ | | 1 | 3.8 |
| Acetone | 16-OCT-08 01:06 | 0.195 | ND | ppb v/v | B | 1 | 0.5 |
| Acetone | 16-OCT-08 01:06 | 0.46 | ND | µg/m³ | B | 1 | 1.2 |
| Methylene Chloride | 16-OCT-08 01:06 | 0.339 | ND | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 16-OCT-08 01:06 | 1.2 | ND | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 16-OCT-08 01:06 | 0.437 | 16. | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 16-OCT-08 01:06 | 1.7 | 63. | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 16-OCT-08 01:06 | 3.6 | 34. | ppb v/v | | 10 | 5.0 |
| 1,1-Dichloroethane | 16-OCT-08 01:06 | 14. | 140 | µg/m³ | | 10 | 20. |
| Methyl t-Butyl Ether | 16-OCT-08 01:06 | 0.255 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 16-OCT-08 01:06 | 0.92 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 16-OCT-08 01:06 | 0.222 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 16-OCT-08 01:06 | 0.78 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 16-OCT-08 01:06 | 3.9 | 22. | ppb v/v | | 10 | 5.0 |
| 1,1-Dichloroethene | 16-OCT-08 01:06 | 15. | 85. | µg/m³ | | 10 | 20. |
| 2-Butanone | 16-OCT-08 01:06 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 16-OCT-08 01:06 | 0.73 | ND | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 16-OCT-08 01:06 | 0.261 | ND | ppb v/v | | 1 | 0.5 |
| Ethyl Acetate | 16-OCT-08 01:06 | 0.94 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 16-OCT-08 01:06 | 2.9 | 100 | ppb v/v | | 10 | 5.0 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S089H01L

Date Printed.....: 21-OCT-08 14:02
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I05996
DCL Report Group..: 08I-1030-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 16-OCT-08 01:06 | 10. | 370 | µg/m³ | | 10 | 18. |
| Chloroform | 16-OCT-08 01:06 | 3.5 | 23. | ppb v/v | | 10 | 5.0 |
| Chloroform | 16-OCT-08 01:06 | 17. | 110 | µg/m³ | | 10 | 24. |
| 1,1,1-Trichloroethane | 16-OCT-08 01:06 | 3.2 | 45. | ppb v/v | | 10 | 5.0 |
| 1,1,1-Trichloroethane | 16-OCT-08 01:06 | 18. | 250 | µg/m³ | | 10 | 27. |
| Carbon Tetrachloride | 16-OCT-08 01:06 | 0.281 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 16-OCT-08 01:06 | 1.8 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 16-OCT-08 01:06 | 0.314 | 2.8 | ppb v/v | | 1 | 0.5 |
| Benzene | 16-OCT-08 01:06 | 1.0 | 8.8 | µg/m³ | | 1 | 1.6 |
| Tetrahydrofuran | 16-OCT-08 01:06 | 0.350 | 3.2 | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 16-OCT-08 01:06 | 1.0 | 9.4 | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 16-OCT-08 01:06 | 0.297 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 16-OCT-08 01:06 | 1.2 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 16-OCT-08 01:06 | 0.359 | 4.4 | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 16-OCT-08 01:06 | 1.2 | 15. | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 16-OCT-08 01:06 | 0.291 | ND | ppb v/v | | 1 | 0.5 |
| Trichloroethene | 16-OCT-08 01:06 | 1.6 | ND | µg/m³ | | 1 | 2.7 |
| 1,2-Dichloropropane | 16-OCT-08 01:06 | 0.318 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 16-OCT-08 01:06 | 1.5 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 16-OCT-08 01:06 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 16-OCT-08 01:06 | 1.5 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 16-OCT-08 01:06 | 0.302 | ND | ppb v/v | | 1 | 0.5 |
| Heptane | 16-OCT-08 01:06 | 1.2 | ND | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 16-OCT-08 01:06 | 0.289 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 16-OCT-08 01:06 | 1.3 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 16-OCT-08 01:06 | 0.212 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 16-OCT-08 01:06 | 0.87 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 16-OCT-08 01:06 | 0.279 | ND | ppb v/v | | 1 | 0.5 |
| Toluene | 16-OCT-08 01:06 | 1.1 | ND | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 16-OCT-08 01:06 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 16-OCT-08 01:06 | 1.0 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 16-OCT-08 01:06 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 16-OCT-08 01:06 | 1.2 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 16-OCT-08 01:06 | 0.350 | ND | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 16-OCT-08 01:06 | 2.4 | ND | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 16-OCT-08 01:06 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 16-OCT-08 01:06 | 1.4 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 16-OCT-08 01:06 | 0.288 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 16-OCT-08 01:06 | 2.4 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 16-OCT-08 01:06 | 0.315 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 16-OCT-08 01:06 | 2.4 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 16-OCT-08 01:06 | 0.270 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 16-OCT-08 01:06 | 1.2 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 16-OCT-08 01:06 | 0.307 | ND | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 16-OCT-08 01:06 | 1.3 | ND | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 16-OCT-08 01:06 | 0.520 | ND | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 16-OCT-08 01:06 | 2.3 | ND | µg/m³ | | 1 | 4.3 |
| o-Xylene | 16-OCT-08 01:06 | 0.262 | ND | ppb v/v | | 1 | 0.5 |
| o-Xylene | 16-OCT-08 01:06 | 1.1 | ND | µg/m³ | | 1 | 2.2 |
| Styrene | 16-OCT-08 01:06 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 16-OCT-08 01:06 | 0.97 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 16-OCT-08 01:06 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 16-OCT-08 01:06 | 2.3 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 16-OCT-08 01:06 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 16-OCT-08 01:06 | 1.7 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 16-OCT-08 01:06 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 16-OCT-08 01:06 | 1.3 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 16-OCT-08 01:06 | 0.183 | ND | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
10210814023163
Page 8

S089H01L

Date Printed.....: 21-OCT-08 14:02
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I05996
DCL Report Group..: 08I-1030-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 16-OCT-08 01:06 | 0.90 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 16-OCT-08 01:06 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 16-OCT-08 01:06 | 1.2 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 16-OCT-08 01:06 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 16-OCT-08 01:06 | 1.1 | ND | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 16-OCT-08 01:06 | 0.236 | 4.2 | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 16-OCT-08 01:06 | 1.4 | 25. | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 16-OCT-08 01:06 | 0.303 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 16-OCT-08 01:06 | 1.8 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 16-OCT-08 01:06 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 16-OCT-08 01:06 | 1.3 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 16-OCT-08 01:06 | 0.361 UJ | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 16-OCT-08 01:06 | 2.7 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 16-OCT-08 01:06 | 0.241 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 16-OCT-08 01:06 | 2.6 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Isobutane(4.27) | 16-OCT-08 01:06 | 27. | ppb v/v | J | 1 |
| Butane(4.49) | 16-OCT-08 01:06 | 11. | ppb v/v | J | 1 |
| Ethanol(4.99) | 16-OCT-08 01:06 | 4.4 | ppb v/v | J | 1 |
| Butane, 2-methyl-(5.27) | 16-OCT-08 01:06 | 12. | ppb v/v | J | 1 |
| Pentane(5.63) | 16-OCT-08 01:06 | 5.0 | ppb v/v | J | 1 |
| Pentane, 2-methyl-(6.91) | 16-OCT-08 01:06 | 3.4 | ppb v/v | J | 1 |
| Pentane, 3-methyl-(7.23) | 16-OCT-08 01:06 | 3.9 | ppb v/v | J | 1 |
| CYCLOPENTANE, METHYL-(8.25) | 16-OCT-08 01:06 | 3.1 | ppb v/v | J | 1 |
| Hexane, 3-methyl-(9.38) | 16-OCT-08 01:06 | 3.0 | ppb v/v | J | 1 |
| CYCLOHEXANE, METHYL-(10.54) | 16-OCT-08 01:06 | 4.5 | ppb v/v | J | 1 |

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# FORM A (TYPE I)
## SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
10210814023163


## SAMPLE ANALYSIS DATA SHEET

S089H01M

Date Printed.....: 21-OCT-08 14:02

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 20405.016.003.0121.00
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 20405.016.003.0121.00

Date Received.....: 15-OCT-08 00:00

Client Sample Name: EFF-101408|108865
DCL Sample Name...: 08I05997
DCL Report Group..: 08I-1030-01

Matrix.....: SUMMA
Date Sampled.....: 14-OCT-08 13:22
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G089J003
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

### Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 16-OCT-08 02:30 | 0.432 | 0.71 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 16-OCT-08 02:30 | 2.1 | 3.5 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 16-OCT-08 02:30 | 0.405 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 16-OCT-08 02:30 | 0.84 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 16-OCT-08 02:30 | 0.409 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 16-OCT-08 02:30 | 2.9 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 16-OCT-08 02:30 | 0.443 | 2.6 | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 16-OCT-08 02:30 | 1.1 | 6.7 | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 16-OCT-08 02:30 | 0.338 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 16-OCT-08 02:30 | 0.75 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 16-OCT-08 02:30 | 0.326 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 16-OCT-08 02:30 | 1.3 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 16-OCT-08 02:30 | 0.267 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 16-OCT-08 02:30 | 0.70 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 16-OCT-08 02:30 | 0.384 | 0.61 | ppb v/v | | 1 | 0.5 |
| Freon 11 | 16-OCT-08 02:30 | 2.2 | 3.4 | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 16-OCT-08 02:30 | 3.9 | 720 | ppb v/v | E | 10 | 5.0 |
| cis-1,2-Dichloroethene | 16-OCT-08 02:30 | 15. | 2900 | µg/m³ | E | 10 | 20. |
| Carbon Disulfide | 16-OCT-08 02:30 | 0.388 | 0.74 | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 16-OCT-08 02:30 | 1.2 | 2.3 | µg/m³ | | 1 | 1.6 |
| Freon 113 | 16-OCT-08 02:30 | 0.369 | 3.0 | ppb v/v | | 1 | 0.5 |
| Freon 113 | 16-OCT-08 02:30 | 2.8 | 23. | µg/m³ | | 1 | 3.8 |
| Acetone | 16-OCT-08 02:30 | 0.195 | ND | ppb v/v | B | 1 | 0.5 |
| Acetone | 16-OCT-08 02:30 | 0.46 | ND | µg/m³ | B | 1 | 1.2 |
| Methylene Chloride | 16-OCT-08 02:30 | 0.339 | 0.56 | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 16-OCT-08 02:30 | 1.2 | 2.0 | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 16-OCT-08 02:30 | 4.4 | 23. | ppb v/v | | 10 | 5.0 |
| trans-1,2-Dichloroethene | 16-OCT-08 02:30 | 17. | 89. | µg/m³ | | 10 | 20. |
| 1,1-Dichloroethane | 16-OCT-08 02:30 | 3.6 | 38. | ppb v/v | | 10 | 5.0 |
| 1,1-Dichloroethane | 16-OCT-08 02:30 | 14. | 150 | µg/m³ | | 10 | 20. |
| Methyl t-Butyl Ether | 16-OCT-08 02:30 | 0.255 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 16-OCT-08 02:30 | 0.92 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 16-OCT-08 02:30 | 0.222 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 16-OCT-08 02:30 | 0.78 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 16-OCT-08 02:30 | 3.9 | 28. | ppb v/v | | 10 | 5.0 |
| 1,1-Dichloroethene | 16-OCT-08 02:30 | 15. | 110 | µg/m³ | | 10 | 20. |
| 2-Butanone | 16-OCT-08 02:30 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 16-OCT-08 02:30 | 0.73 | ND | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 16-OCT-08 02:30 | 0.261 | ND | ppb v/v | | 1 | 0.5 |
| Ethyl Acetate | 16-OCT-08 02:30 | 0.94 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 16-OCT-08 02:30 | 2.9 | 200 | ppb v/v | | 10 | 5.0 |

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S089H01M

Date Printed.....: 21-OCT-08 14:02
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I05997
DCL Report Group..: 08I-1030-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 16-OCT-08 02:30 | 10. | 710 | µg/m³ | | 10 | 18. |
| Chloroform | 16-OCT-08 02:30 | 3.5 | 24. | ppb v/v | | 10 | 5.0 |
| Chloroform | 16-OCT-08 02:30 | 17. | 120 | µg/m³ | | 10 | 24. |
| 1,1,1-Trichloroethane | 16-OCT-08 02:30 | 3.2 | 53. | ppb v/v | | 10 | 5.0 |
| 1,1,1-Trichloroethane | 16-OCT-08 02:30 | 18. | 290 | µg/m³ | | 10 | 27. |
| Carbon Tetrachloride | 16-OCT-08 02:30 | 0.281 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 16-OCT-08 02:30 | 1.8 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 16-OCT-08 02:30 | 0.314 | ND | ppb v/v | | 1 | 0.5 |
| Benzene | 16-OCT-08 02:30 | 1.0 | ND | µg/m³ | | 1 | 1.6 |
| Tetrahydrofuran | 16-OCT-08 02:30 | 3.5 | 42. | ppb v/v | | 10 | 5.0 |
| Tetrahydrofuran | 16-OCT-08 02:30 | 10. | 120 | µg/m³ | | 10 | 15. |
| 1,2-Dichloroethane | 16-OCT-08 02:30 | 0.297 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 16-OCT-08 02:30 | 1.2 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 16-OCT-08 02:30 | 0.359 | 9.7 | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 16-OCT-08 02:30 | 1.2 | 33. | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 16-OCT-08 02:30 | 2.9 | 3400 | ppb v/v | E | 10 | 5.0 |
| Trichloroethene | 16-OCT-08 02:30 | 16. | 18000 | µg/m³ | E | 10 | 27. |
| 1,2-Dichloropropane | 16-OCT-08 02:30 | 0.318 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 16-OCT-08 02:30 | 1.5 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 16-OCT-08 02:30 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 16-OCT-08 02:30 | 1.5 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 16-OCT-08 02:30 | 0.302 | ND | ppb v/v | | 1 | 0.5 |
| Heptane | 16-OCT-08 02:30 | 1.2 | ND | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 16-OCT-08 02:30 | 0.289 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 16-OCT-08 02:30 | 1.3 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 16-OCT-08 02:30 | 0.212 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 16-OCT-08 02:30 | 0.87 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 16-OCT-08 02:30 | 0.279 | 0.68 | ppb v/v | | 1 | 0.5 |
| Toluene | 16-OCT-08 02:30 | 1.1 | 2.6 | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 16-OCT-08 02:30 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 16-OCT-08 02:30 | 1.0 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 16-OCT-08 02:30 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 16-OCT-08 02:30 | 1.2 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 16-OCT-08 02:30 | 0.350 | ND | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 16-OCT-08 02:30 | 2.4 | ND | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 16-OCT-08 02:30 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 16-OCT-08 02:30 | 1.4 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 16-OCT-08 02:30 | 0.288 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 16-OCT-08 02:30 | 2.4 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 16-OCT-08 02:30 | 0.315 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 16-OCT-08 02:30 | 2.4 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 16-OCT-08 02:30 | 0.270 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 16-OCT-08 02:30 | 1.2 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 16-OCT-08 02:30 | 0.307 | ND | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 16-OCT-08 02:30 | 1.3 | ND | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 16-OCT-08 02:30 | 0.520 | ND | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 16-OCT-08 02:30 | 2.3 | ND | µg/m³ | | 1 | 4.3 |
| o-Xylene | 16-OCT-08 02:30 | 0.262 | ND | ppb v/v | | 1 | 0.5 |
| o-Xylene | 16-OCT-08 02:30 | 1.1 | ND | µg/m³ | | 1 | 2.2 |
| Styrene | 16-OCT-08 02:30 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 16-OCT-08 02:30 | 0.97 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 16-OCT-08 02:30 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 16-OCT-08 02:30 | 2.3 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 16-OCT-08 02:30 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 16-OCT-08 02:30 | 1.7 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 16-OCT-08 02:30 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 16-OCT-08 02:30 | 1.3 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 16-OCT-08 02:30 | 0.183 | ND | ppb v/v | | 1 | 0.5 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S089H01M

Date Printed.....: 21-OCT-08 14:02
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I05997
DCL Report Group..: 08I-1030-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 16-OCT-08 02:30 | 0.90 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 16-OCT-08 02:30 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 16-OCT-08 02:30 | 1.2 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 16-OCT-08 02:30 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 16-OCT-08 02:30 | 1.1 | ND | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 16-OCT-08 02:30 | 0.236 | 7.1 | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 16-OCT-08 02:30 | 1.4 | 42. | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 16-OCT-08 02:30 | 0.303 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 16-OCT-08 02:30 | 1.8 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 16-OCT-08 02:30 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 16-OCT-08 02:30 | 1.3 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 16-OCT-08 02:30 | 0.361 UJ | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 16-OCT-08 02:30 | 2.7 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 16-OCT-08 02:30 | 0.241 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 16-OCT-08 02:30 | 2.6 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Isobutane(4.27) | 16-OCT-08 02:30 | 18. | ppb v/v | J | 1 |
| Butane(4.50) | 16-OCT-08 02:30 | 8.0 | ppb v/v | J | 1 |
| Ethanol(4.97) | 16-OCT-08 02:30 | 9.5 | ppb v/v | J | 1 |
| Butane, 2-methyl-(5.27) | 16-OCT-08 02:30 | 12. | ppb v/v | J | 1 |
| Pentane(5.64) | 16-OCT-08 02:30 | 4.6 | ppb v/v | J | 1 |
| Pentane, 2-methyl-(6.92) | 16-OCT-08 02:30 | 7.7 | ppb v/v | J | 1 |
| Pentane, 3-methyl-(7.23) | 16-OCT-08 02:30 | 7.7 | ppb v/v | J | 1 |
| CYCLOPENTANE, METHYL-(8.26) | 16-OCT-08 02:30 | 6.0 | ppb v/v | J | 1 |

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**BEHR VOC PLUME SITE**
**DAYTON, OHIO**
**DATA VALIDATION REPORT**

**Date:** March 12, 2009
**Laboratory:** DataChem Laboratories, Inc. (DataChem), Salt Lake City, Utah
**Laboratory SDG #/Set ID #:** 08I-1164-01
**Data Validation Performed By:** Lisa Graczyk, Weston Solutions, Inc. (WESTON) Superfund Technical Assessment and Response Team (START)
**Weston Analytical Work Order #/TDD #**: 20405.016.003.0121.00/S05-0612-007

This data validation report has been prepared by WESTON START, under the START III Region V contract. This report documents the data validation of air samples collected for the Behr VOC Plume Site that were analyzed for Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) method TO-15. Detachment submitted a Level II data package which contains sample results and summary reports for quality control (QC) samples only (calibration information and instrument printouts are not included). The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008.

## VOCs IN AIR BY U.S. EPA METHOD TO-15

### 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

| Samples | Lab ID | Date Collected | Date Analyzed |
|---|---|---|---|
| INF-120908 | 08I06774 | 12/9/08 | 12/12/08 |
| CARBON-120908 | 08I06775 | 12/9/08 | 12/12/08 |
| EFF-120908 | 08I06776 | 12/9/08 | 12/12/08 |

### 2. Holding Times

The samples were analyzed within the required holding time limit of 30 days from sample collection in accordance with method TO-15.

## 3. Blanks

A lab blank was analyzed and was free of target compound contamination.

## 4. Surrogate Results

The 4-bromofluorobenzene surrogate spike recoveries in the samples were acceptable except for in sample EFF-120908 which had a low surrogate recovery of 49.5 percent. In sample EFF121908, detected results were flagged "J" and the quantitation limits for non-detected results were flagged "UJ" as estimated for this discrepancy.

## 5. Laboratory Control Sample (LCS) Results

The LCS recoveries and LCS duplicate (LCSD) recoveries were within the laboratory-established QC limits of 70 to 130 percent recovery for the standard TO-15 analysis except for as follows. In the LCS, 1,2,4-trichlorobenzene was detected slightly low at 69.7 percent. No qualification was applied for this minor discrepancy.

The relative percent differences (RPD) between the LCS and LCSD were within the QC limit of 25 RPD or less except for the following compounds: carbon disulfide; Freon 113; methylene chloride; 1,1-dichloroethene; and 1,2,4-tricchlorobenzene. Detected results for these compounds in the samples were flagged "J" as estimated.

## 6. Overall Data Assessment

Some results were flagged "J" by the laboratory because they were detected below the reporting limit. Some results were flagged "E" by the laboratory because they were detected above the instrument calibration results. All of these results should be considered estimated and were flagged "J" to indicate this.

The data are acceptable for use as qualified based on the information received.

# ATTACHMENT

## DATACHEM LABORATORIES
## RESULTS SUMMARY

DATA CHEM LABORATORIES
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# FORM A (TYPE I)
## SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
12170809502107


## SAMPLE ANALYSIS DATA SHEET

S08CB002

Date Printed.....: 17-DEC-08 09:50

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 20405.016.003.0121.00
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 20405.016.003.0121.00

Date Received.....: 10-DEC-08 00:00

Client Sample Name: INF-120908|108734
DCL Sample Name...: 08I06774
DCL Report Group..: 08I-1164-01

Matrix.....: SUMMA
Date Sampled.....: 09-DEC-08 10:45
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G08CG002
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 12-DEC-08 11:05 | 0.432 | 0.49 J | ppb v/v | J | 1 | 0.5 |
| Dichlorodifluoromethane | 12-DEC-08 11:05 | 2.1 | 2.4 J | µg/m³ | J | 1 | 2.5 |
| Chloromethane | 12-DEC-08 11:05 | 0.405 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 12-DEC-08 11:05 | 0.84 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 12-DEC-08 11:05 | 0.409 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 12-DEC-08 11:05 | 2.9 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 12-DEC-08 11:05 | 0.443 | 1.3 | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 12-DEC-08 11:05 | 1.1 | 3.2 | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 12-DEC-08 11:05 | 0.338 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 12-DEC-08 11:05 | 0.75 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 12-DEC-08 11:05 | 0.326 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 12-DEC-08 11:05 | 1.3 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 12-DEC-08 11:05 | 0.267 | 0.87 | ppb v/v | | 1 | 0.5 |
| Chloroethane | 12-DEC-08 11:05 | 0.70 | 2.3 | µg/m³ | | 1 | 1.3 |
| Freon 11 | 12-DEC-08 11:05 | 0.384 | ND | ppb v/v | | 1 | 0.5 |
| Freon 11 | 12-DEC-08 11:05 | 2.2 | ND | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 12-DEC-08 11:05 | 3.9 | 250 J | ppb v/v | E | 10 | 5.0 |
| cis-1,2-Dichloroethene | 12-DEC-08 11:05 | 15. | 990 J | µg/m³ | E | 10 | 20. |
| Carbon Disulfide | 12-DEC-08 11:05 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 12-DEC-08 11:05 | 1.2 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 12-DEC-08 11:05 | 0.369 | 1.4 J | ppb v/v | | 1 | 0.5 |
| Freon 113 | 12-DEC-08 11:05 | 2.8 | 11. J | µg/m³ | | 1 | 3.8 |
| Acetone | 12-DEC-08 11:05 | 0.195 | 4.0 | ppb v/v | | 1 | 0.5 |
| Acetone | 12-DEC-08 11:05 | 0.46 | 9.4 | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 12-DEC-08 11:05 | 0.339 | 1.4 J | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 12-DEC-08 11:05 | 1.2 | 4.9 J | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 12-DEC-08 11:05 | 0.437 | 5.8 | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 12-DEC-08 11:05 | 1.7 | 23. | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 12-DEC-08 11:05 | 0.355 | 12. | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 12-DEC-08 11:05 | 1.4 | 49. | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 12-DEC-08 11:05 | 0.255 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 12-DEC-08 11:05 | 0.92 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 12-DEC-08 11:05 | 0.222 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 12-DEC-08 11:05 | 0.78 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 12-DEC-08 11:05 | 0.390 | 8.5 J | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 12-DEC-08 11:05 | 1.5 | 34. J | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 12-DEC-08 11:05 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 12-DEC-08 11:05 | 0.73 | ND | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 12-DEC-08 11:05 | 0.261 | ND | ppb v/v | | 1 | 0.5 |
| Ethyl Acetate | 12-DEC-08 11:05 | 0.94 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 12-DEC-08 11:05 | 0.287 | 5.3 | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S08CB002

Date Printed.....: 17-DEC-08 09:50
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06774
DCL Report Group..: 08I-1164-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 12-DEC-08 11:05 | 1.0 | 19. | µg/m³ | | 1 | 1.8 |
| Chloroform | 12-DEC-08 11:05 | 0.350 | 9.2 | ppb v/v | | 1 | 0.5 |
| Chloroform | 12-DEC-08 11:05 | 1.7 | 45. | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 12-DEC-08 11:05 | 3.2 | 25. | ppb v/v | | 10 | 5.0 |
| 1,1,1-Trichloroethane | 12-DEC-08 11:05 | 18. | 140 | µg/m³ | | 10 | 27. |
| Carbon Tetrachloride | 12-DEC-08 11:05 | 0.281 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 12-DEC-08 11:05 | 1.8 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 12-DEC-08 11:05 | 0.314 | 0.73 | ppb v/v | | 1 | 0.5 |
| Benzene | 12-DEC-08 11:05 | 1.0 | 2.3 | µg/m³ | | 1 | 1.6 |
| Tetrahydrofuran | 12-DEC-08 11:05 | 0.350 | 1.5 | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 12-DEC-08 11:05 | 1.0 | 4.3 | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 12-DEC-08 11:05 | 0.297 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 12-DEC-08 11:05 | 1.2 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 12-DEC-08 11:05 | 0.359 | 3.5 | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 12-DEC-08 11:05 | 1.2 | 12. | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 12-DEC-08 11:05 | 2.9 | 2800 J | ppb v/v | E | 10 | 5.0 |
| Trichloroethene | 12-DEC-08 11:05 | 16. | 15000 J | µg/m³ | E | 10 | 27. |
| 1,2-Dichloropropane | 12-DEC-08 11:05 | 0.318 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 12-DEC-08 11:05 | 1.5 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 12-DEC-08 11:05 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 12-DEC-08 11:05 | 1.5 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 12-DEC-08 11:05 | 0.302 | 0.52 | ppb v/v | | 1 | 0.5 |
| Heptane | 12-DEC-08 11:05 | 1.2 | 2.1 | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 12-DEC-08 11:05 | 0.289 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 12-DEC-08 11:05 | 1.3 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 12-DEC-08 11:05 | 0.212 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 12-DEC-08 11:05 | 0.87 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 12-DEC-08 11:05 | 0.279 | 0.66 | ppb v/v | | 1 | 0.5 |
| Toluene | 12-DEC-08 11:05 | 1.1 | 2.5 | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 12-DEC-08 11:05 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 12-DEC-08 11:05 | 1.0 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 12-DEC-08 11:05 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 12-DEC-08 11:05 | 1.2 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 12-DEC-08 11:05 | 0.350 | 8.9 | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 12-DEC-08 11:05 | 2.4 | 61. | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 12-DEC-08 11:05 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 12-DEC-08 11:05 | 1.4 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 12-DEC-08 11:05 | 0.288 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 12-DEC-08 11:05 | 2.4 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 12-DEC-08 11:05 | 0.315 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 12-DEC-08 11:05 | 2.4 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 12-DEC-08 11:05 | 0.270 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 12-DEC-08 11:05 | 1.2 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 12-DEC-08 11:05 | 0.307 | ND | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 12-DEC-08 11:05 | 1.3 | ND | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 12-DEC-08 11:05 | 0.520 | ND | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 12-DEC-08 11:05 | 2.3 | ND | µg/m³ | | 1 | 4.3 |
| o-Xylene | 12-DEC-08 11:05 | 0.262 | ND | ppb v/v | | 1 | 0.5 |
| o-Xylene | 12-DEC-08 11:05 | 1.1 | ND | µg/m³ | | 1 | 2.2 |
| Styrene | 12-DEC-08 11:05 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 12-DEC-08 11:05 | 0.97 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 12-DEC-08 11:05 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 12-DEC-08 11:05 | 2.3 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 12-DEC-08 11:05 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 12-DEC-08 11:05 | 1.7 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 12-DEC-08 11:05 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 12-DEC-08 11:05 | 1.3 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 12-DEC-08 11:05 | 0.183 | ND | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S08CB002

Date Printed.....: 17-DEC-08 09:50
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06774
DCL Report Group..: 08I-1164-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 12-DEC-08 11:05 | 0.90 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 12-DEC-08 11:05 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 12-DEC-08 11:05 | 1.2 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 12-DEC-08 11:05 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 12-DEC-08 11:05 | 1.1 | ND | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 12-DEC-08 11:05 | 0.236 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 12-DEC-08 11:05 | 1.4 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 12-DEC-08 11:05 | 0.303 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 12-DEC-08 11:05 | 1.8 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 12-DEC-08 11:05 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 12-DEC-08 11:05 | 1.3 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 12-DEC-08 11:05 | 0.361 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 12-DEC-08 11:05 | 2.7 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 12-DEC-08 11:05 | 0.241 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 12-DEC-08 11:05 | 2.6 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Isobutane(4.30) | 12-DEC-08 11:05 | 94. | ppb v/v | J | 1 |
| Butane(4.52) | 12-DEC-08 11:05 | 29. | ppb v/v | J | 1 |
| Propane, 2,2-dimethyl-(4.64) | 12-DEC-08 11:05 | 6.6 | ppb v/v | J | 1 |
| Ethanol(5.00) | 12-DEC-08 11:05 | 4.1 | ppb v/v | J | 1 |
| Isopropyl Alcohol(5.61) | 12-DEC-08 11:05 | 0.30 | ppb v/v | J | 1 |
| Pentane(5.66) | 12-DEC-08 11:05 | 12. | ppb v/v | J | 1 |
| Butane, 2,2-dimethyl-(6.30) | 12-DEC-08 11:05 | 7.5 | ppb v/v | J | 1 |
| Pentane, 2-methyl-(6.94) | 12-DEC-08 11:05 | 8.1 | ppb v/v | J | 1 |
| Pentane, 3-methyl-(7.25) | 12-DEC-08 11:05 | 5.2 | ppb v/v | J | 1 |
| CYCLOPENTANE, METHYL-(8.28) | 12-DEC-08 11:05 | 2.5 | ppb v/v | J | 1 |

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# FORM A (TYPE I)
## SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
12170811071628


## SAMPLE ANALYSIS DATA SHEET

S08CB003

Date Printed.....: 17-DEC-08 11:07

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 20405.016.003.0121.00
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 20405.016.003.0121.00

Date Received.....: 10-DEC-08 00:00

Client Sample Name: CARBON-12908|108686
DCL Sample Name...: 08I06775
DCL Report Group..: 08I-1164-01

Matrix.....: SUMMA
Date Sampled.....: 09-DEC-08 10:50
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G08CG002
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

### Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 12-DEC-08 12:29 | 0.432 | 0.64 | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 12-DEC-08 12:29 | 2.1 | 3.2 | µg/m³ | | 1 | 2.5 |
| Chloromethane | 12-DEC-08 12:29 | 0.405 | ND | ppb v/v | | 1 | 0.5 |
| Chloromethane | 12-DEC-08 12:29 | 0.84 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 12-DEC-08 12:29 | 0.409 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 12-DEC-08 12:29 | 2.9 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 12-DEC-08 12:29 | 0.443 | 1.4 | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 12-DEC-08 12:29 | 1.1 | 3.6 | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 12-DEC-08 12:29 | 0.338 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Butadiene | 12-DEC-08 12:29 | 0.75 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 12-DEC-08 12:29 | 0.326 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 12-DEC-08 12:29 | 1.3 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 12-DEC-08 12:29 | 0.267 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 12-DEC-08 12:29 | 0.70 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 12-DEC-08 12:29 | 0.384 | ND | ppb v/v | | 1 | 0.5 |
| Freon 11 | 12-DEC-08 12:29 | 2.2 | ND | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 12-DEC-08 12:29 | 3.9 | 370 J | ppb v/v | E | 10 | 5.0 |
| cis-1,2-Dichloroethene | 12-DEC-08 12:29 | 15. | 1500 J | µg/m³ | E | 10 | 20. |
| Carbon Disulfide | 12-DEC-08 12:29 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 12-DEC-08 12:29 | 1.2 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 12-DEC-08 12:29 | 0.369 | 1.8 J | ppb v/v | | 1 | 0.5 |
| Freon 113 | 12-DEC-08 12:29 | 2.8 | 13. J | µg/m³ | | 1 | 3.8 |
| Acetone | 12-DEC-08 12:29 | 0.195 | 7.9 | ppb v/v | | 1 | 0.5 |
| Acetone | 12-DEC-08 12:29 | 0.46 | 19. | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 12-DEC-08 12:29 | 0.339 | ND | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 12-DEC-08 12:29 | 1.2 | ND | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 12-DEC-08 12:29 | 0.437 | 11. | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 12-DEC-08 12:29 | 1.7 | 42. | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 12-DEC-08 12:29 | 0.355 | 17. | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 12-DEC-08 12:29 | 1.4 | 68. | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 12-DEC-08 12:29 | 0.255 | ND | ppb v/v | | 1 | 0.5 |
| Methyl t-Butyl Ether | 12-DEC-08 12:29 | 0.92 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 12-DEC-08 12:29 | 0.222 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 12-DEC-08 12:29 | 0.78 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 12-DEC-08 12:29 | 0.390 | 11. J | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 12-DEC-08 12:29 | 1.5 | 46. J | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 12-DEC-08 12:29 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 2-Butanone | 12-DEC-08 12:29 | 0.73 | ND | µg/m³ | | 1 | 1.5 |
| Ethyl Acetate | 12-DEC-08 12:29 | 0.261 | ND | ppb v/v | | 1 | 0.5 |
| Ethyl Acetate | 12-DEC-08 12:29 | 0.94 | ND | µg/m³ | | 1 | 1.8 |
| Hexane | 12-DEC-08 12:29 | 2.9 | 22. | ppb v/v | | 10 | 5.0 |

2B
3/12/09

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S08CB003

Date Printed.....: 17-DEC-08 11:07
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06775
DCL Report Group..: 08I-1164-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 12-DEC-08 12:29 | 10. | 78. | µg/m³ | | 10 | 18. |
| Chloroform | 12-DEC-08 12:29 | 0.350 | 15. | ppb v/v | | 1 | 0.5 |
| Chloroform | 12-DEC-08 12:29 | 1.7 | 72. | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 12-DEC-08 12:29 | 3.2 | 34. | ppb v/v | | 10 | 5.0 |
| 1,1,1-Trichloroethane | 12-DEC-08 12:29 | 18. | 190 | µg/m³ | | 10 | 27. |
| Carbon Tetrachloride | 12-DEC-08 12:29 | 0.281 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Tetrachloride | 12-DEC-08 12:29 | 1.8 | ND | µg/m³ | | 1 | 3.1 |
| Benzene | 12-DEC-08 12:29 | 0.314 | 1.6 | ppb v/v | | 1 | 0.5 |
| Benzene | 12-DEC-08 12:29 | 1.0 | 5.0 | µg/m³ | | 1 | 1.6 |
| Tetrahydrofuran | 12-DEC-08 12:29 | 0.350 | ND | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 12-DEC-08 12:29 | 1.0 | ND | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 12-DEC-08 12:29 | 0.297 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloroethane | 12-DEC-08 12:29 | 1.2 | ND | µg/m³ | | 1 | 2.0 |
| Cyclohexane | 12-DEC-08 12:29 | 0.359 | 4.0 | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 12-DEC-08 12:29 | 1.2 | 14. | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 12-DEC-08 12:29 | 2.9 | 3900 J | ppb v/v | E | 10 | 5.0 |
| Trichloroethene | 12-DEC-08 12:29 | 16. | 21000 J | µg/m³ | E | 10 | 27. |
| 1,2-Dichloropropane | 12-DEC-08 12:29 | 0.318 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichloropropane | 12-DEC-08 12:29 | 1.5 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 12-DEC-08 12:29 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 12-DEC-08 12:29 | 1.5 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 12-DEC-08 12:29 | 0.302 | 1.0 | ppb v/v | | 1 | 0.5 |
| Heptane | 12-DEC-08 12:29 | 1.2 | 4.3 | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 12-DEC-08 12:29 | 0.289 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 12-DEC-08 12:29 | 1.3 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 12-DEC-08 12:29 | 0.212 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 12-DEC-08 12:29 | 0.87 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 12-DEC-08 12:29 | 0.279 | ND | ppb v/v | | 1 | 0.5 |
| Toluene | 12-DEC-08 12:29 | 1.1 | ND | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 12-DEC-08 12:29 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 12-DEC-08 12:29 | 1.0 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 12-DEC-08 12:29 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 12-DEC-08 12:29 | 1.2 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 12-DEC-08 12:29 | 0.350 | 4.5 | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 12-DEC-08 12:29 | 2.4 | 31. | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 12-DEC-08 12:29 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 12-DEC-08 12:29 | 1.4 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 12-DEC-08 12:29 | 0.288 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 12-DEC-08 12:29 | 2.4 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 12-DEC-08 12:29 | 0.315 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 12-DEC-08 12:29 | 2.4 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 12-DEC-08 12:29 | 0.270 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 12-DEC-08 12:29 | 1.2 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 12-DEC-08 12:29 | 0.307 | ND | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 12-DEC-08 12:29 | 1.3 | ND | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 12-DEC-08 12:29 | 0.520 | ND | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 12-DEC-08 12:29 | 2.3 | ND | µg/m³ | | 1 | 4.3 |
| o-Xylene | 12-DEC-08 12:29 | 0.262 | ND | ppb v/v | | 1 | 0.5 |
| o-Xylene | 12-DEC-08 12:29 | 1.1 | ND | µg/m³ | | 1 | 2.2 |
| Styrene | 12-DEC-08 12:29 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 12-DEC-08 12:29 | 0.97 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 12-DEC-08 12:29 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 12-DEC-08 12:29 | 2.3 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 12-DEC-08 12:29 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 12-DEC-08 12:29 | 1.7 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 12-DEC-08 12:29 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 12-DEC-08 12:29 | 1.3 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 12-DEC-08 12:29 | 0.183 | ND | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S08CB003

Date Printed.....: 17-DEC-08 09:50
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06775
DCL Report Group..: 08I-1164-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 12-DEC-08 12:29 | 0.90 | ND | µg/m³ | | 1 | 2.5 |
| 1,3,5-Trimethylbenzene | 12-DEC-08 12:29 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 12-DEC-08 12:29 | 1.2 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 12-DEC-08 12:29 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 12-DEC-08 12:29 | 1.1 | ND | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 12-DEC-08 12:29 | 0.236 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 12-DEC-08 12:29 | 1.4 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 12-DEC-08 12:29 | 0.303 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 12-DEC-08 12:29 | 1.8 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 12-DEC-08 12:29 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 12-DEC-08 12:29 | 1.3 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 12-DEC-08 12:29 | 0.361 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 12-DEC-08 12:29 | 2.7 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 12-DEC-08 12:29 | 0.241 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 12-DEC-08 12:29 | 2.6 | ND | µg/m³ | | 1 | 5.3 |

## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Isobutane(4.32) | 12-DEC-08 12:29 | 75. | ppb v/v | J | 1 |
| Butane(4.54) | 12-DEC-08 12:29 | 25. | ppb v/v | J | 1 |
| Propane, 2,2-dimethyl-(4.66) | 12-DEC-08 12:29 | 6.7 | ppb v/v | J | 1 |
| Ethanol(5.11) | 12-DEC-08 12:29 | 3.0 | ppb v/v | J | 1 |
| Butane, 2-methyl-(5.32) | 12-DEC-08 12:29 | 33. | ppb v/v | J | 1 |
| Pentane(5.69) | 12-DEC-08 12:29 | 12. | ppb v/v | J | 1 |
| Butane, 2,2-dimethyl-(6.32) | 12-DEC-08 12:29 | 7.4 | ppb v/v | J | 1 |
| Pentane, 2-methyl-(6.97) | 12-DEC-08 12:29 | 7.4 | ppb v/v | J | 1 |
| Pentane, 3-methyl-(7.28) | 12-DEC-08 12:29 | 4.8 | ppb v/v | J | 1 |
| PENTANE, 2,4-DIMETHYL-(8.33) | 12-DEC-08 12:29 | 3.7 | ppb v/v | J | 1 |
| Hexane, 3-methyl-(9.42) | 12-DEC-08 12:29 | 2.9 | ppb v/v | J | 1 |
| CYCLOHEXANE, METHYL-(10.59) | 12-DEC-08 12:29 | 3.5 | ppb v/v | J | 1 |

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
12170811071628
Page 9
S08CB004

Date Printed.....: 17-DEC-08 11:07

Client Name.....: Weston Solutions, Inc.
Client Ref Number....: 20405.016.003.0121.00
Sampling Site.....: Behr VOC Plume PRP
Release Number.....: 20405.016.003.0121.00

Date Received.....: 10-DEC-08 00:00

Client Sample Name: EFF-120908|108900
DCL Sample Name...: 08I06776
DCL Report Group..: 08I-1164-01

Matrix.....: SUMMA
Date Sampled.....: 09-DEC-08 10:40
Reporting Units...: ppb v/v
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 200 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G08CG002
Analysis Method...: TO-15
Instrument Type...: GC/MS VO
Instrument ID.....: 5972-W
Column Type.....: DB-1
☒ Primary
☐ Confirmation

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 12-DEC-08 13:53 | 0.432 | 0.51 J | ppb v/v | | 1 | 0.5 |
| Dichlorodifluoromethane | 12-DEC-08 13:53 | 2.1 | 2.5 J | µg/m³ | | 1 | 2.5 |
| Chloromethane | 12-DEC-08 13:53 | 0.405 | ND | ppb v/v | | 1 | 0.5 UJ |
| Chloromethane | 12-DEC-08 13:53 | 0.84 | ND | µg/m³ | | 1 | 1.0 |
| Freon 114 | 12-DEC-08 13:53 | 0.409 | ND | ppb v/v | | 1 | 0.5 |
| Freon 114 | 12-DEC-08 13:53 | 2.9 | ND | µg/m³ | | 1 | 3.5 |
| Vinyl Chloride | 12-DEC-08 13:53 | 0.443 | 1.5 J | ppb v/v | | 1 | 0.5 |
| Vinyl Chloride | 12-DEC-08 13:53 | 1.1 | 3.9 J | µg/m³ | | 1 | 1.3 |
| 1,3-Butadiene | 12-DEC-08 13:53 | 0.338 | ND | ppb v/v | | 1 | 0.5 UJ |
| 1,3-Butadiene | 12-DEC-08 13:53 | 0.75 | ND | µg/m³ | | 1 | 1.1 |
| Bromomethane | 12-DEC-08 13:53 | 0.326 | ND | ppb v/v | | 1 | 0.5 |
| Bromomethane | 12-DEC-08 13:53 | 1.3 | ND | µg/m³ | | 1 | 1.9 |
| Chloroethane | 12-DEC-08 13:53 | 0.267 | ND | ppb v/v | | 1 | 0.5 |
| Chloroethane | 12-DEC-08 13:53 | 0.70 | ND | µg/m³ | | 1 | 1.3 |
| Freon 11 | 12-DEC-08 13:53 | 0.384 | ND | ppb v/v | | 1 | 0.5 |
| Freon 11 | 12-DEC-08 13:53 | 2.2 | ND | µg/m³ | | 1 | 2.8 |
| cis-1,2-Dichloroethene | 12-DEC-08 13:53 | 3.9 | 430 J | ppb v/v | E | 10 | 5.0 |
| cis-1,2-Dichloroethene | 12-DEC-08 13:53 | 15. | 1700 J | µg/m³ | E | 10 | 20. |
| Carbon Disulfide | 12-DEC-08 13:53 | 0.388 | ND | ppb v/v | | 1 | 0.5 |
| Carbon Disulfide | 12-DEC-08 13:53 | 1.2 | ND | µg/m³ | | 1 | 1.6 |
| Freon 113 | 12-DEC-08 13:53 | 0.369 | 1.7 J | ppb v/v | | 1 | 0.5 |
| Freon 113 | 12-DEC-08 13:53 | 2.8 | 13. | µg/m³ | | 1 | 3.8 |
| Acetone | 12-DEC-08 13:53 | 0.195 | 2.9 | ppb v/v | | 1 | 0.5 |
| Acetone | 12-DEC-08 13:53 | 0.46 | 6.9 | µg/m³ | | 1 | 1.2 |
| Methylene Chloride | 12-DEC-08 13:53 | 0.339 | 1.2 | ppb v/v | | 1 | 0.5 |
| Methylene Chloride | 12-DEC-08 13:53 | 1.2 | 4.3 | µg/m³ | | 1 | 1.7 |
| trans-1,2-Dichloroethene | 12-DEC-08 13:53 | 0.437 | 10. | ppb v/v | | 1 | 0.5 |
| trans-1,2-Dichloroethene | 12-DEC-08 13:53 | 1.7 | 41. | µg/m³ | | 1 | 2.0 |
| 1,1-Dichloroethane | 12-DEC-08 13:53 | 0.355 | 20. | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethane | 12-DEC-08 13:53 | 1.4 | 80. | µg/m³ | | 1 | 2.0 |
| Methyl t-Butyl Ether | 12-DEC-08 13:53 | 0.255 | ND | ppb v/v | | 1 | 0.5 UJ |
| Methyl t-Butyl Ether | 12-DEC-08 13:53 | 0.92 | ND | µg/m³ | | 1 | 1.8 |
| Vinyl Acetate | 12-DEC-08 13:53 | 0.222 | ND | ppb v/v | | 1 | 0.5 |
| Vinyl Acetate | 12-DEC-08 13:53 | 0.78 | ND | µg/m³ | | 1 | 1.8 |
| 1,1-Dichloroethene | 12-DEC-08 13:53 | 0.390 | 13. J | ppb v/v | | 1 | 0.5 |
| 1,1-Dichloroethene | 12-DEC-08 13:53 | 1.5 | 50. | µg/m³ | | 1 | 2.0 |
| 2-Butanone | 12-DEC-08 13:53 | 0.248 | 0.26 | ppb v/v | J | 1 | 0.5 |
| 2-Butanone | 12-DEC-08 13:53 | 0.73 | 0.78 | µg/m³ | J | 1 | 1.5 |
| Ethyl Acetate | 12-DEC-08 13:53 | 0.261 | ND | ppb v/v | | 1 | 0.5 UJ |
| Ethyl Acetate | 12-DEC-08 13:53 | 0.94 | ND | µg/m³ | | 1 | 1.8 UJ |
| Hexane | 12-DEC-08 13:53 | 2.9 | 65. J | ppb v/v | | 10 | 5.0 |

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LH 3/12/09

DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET



S08CB004

Date Printed.....: 17-DEC-08 11:07
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06776
DCL Report Group..: 08I-1164-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| Hexane | 12-DEC-08 13:53 | 10. | 230 J | µg/m³ | | 10 | 18. |
| Chloroform | 12-DEC-08 13:53 | 0.350 | 16. | ppb v/v | | 1 | 0.5 |
| Chloroform | 12-DEC-08 13:53 | 1.7 | 77. | µg/m³ | | 1 | 2.4 |
| 1,1,1-Trichloroethane | 12-DEC-08 13:53 | 3.2 | 41. | ppb v/v | | 10 | 5.0 |
| 1,1,1-Trichloroethane | 12-DEC-08 13:53 | 18. | 220 | µg/m³ | | 10 | 27. |
| Carbon Tetrachloride | 12-DEC-08 13:53 | 0.281 | ND | ppb v/v | | 1 | 0.5 UJ |
| Carbon Tetrachloride | 12-DEC-08 13:53 | 1.8 | ND | µg/m³ | | 1 | 3.1 UJ |
| Benzene | 12-DEC-08 13:53 | 0.314 | 1.1 J | ppb v/v | | 1 | 0.5 |
| Benzene | 12-DEC-08 13:53 | 1.0 | 3.6 | µg/m³ | | 1 | 1.6 |
| Tetrahydrofuran | 12-DEC-08 13:53 | 0.350 | 3.0 | ppb v/v | | 1 | 0.5 |
| Tetrahydrofuran | 12-DEC-08 13:53 | 1.0 | 8.8 | µg/m³ | | 1 | 1.5 |
| 1,2-Dichloroethane | 12-DEC-08 13:53 | 0.297 | ND | ppb v/v | | 1 | 0.5 U |
| 1,2-Dichloroethane | 12-DEC-08 13:53 | 1.2 | ND | µg/m³ | | 1 | 2.0 U |
| Cyclohexane | 12-DEC-08 13:53 | 0.359 | 4.0 J | ppb v/v | | 1 | 0.5 |
| Cyclohexane | 12-DEC-08 13:53 | 1.2 | 14. J | µg/m³ | | 1 | 1.7 |
| Trichloroethene | 12-DEC-08 13:53 | 2.9 | 3800 J | ppb v/v | E | 10 | 5.0 |
| Trichloroethene | 12-DEC-08 13:53 | 16. | 20000 J | µg/m³ | E | 10 | 27. |
| 1,2-Dichloropropane | 12-DEC-08 13:53 | 0.318 | ND | ppb v/v | | 1 | 0.5 U |
| 1,2-Dichloropropane | 12-DEC-08 13:53 | 1.5 | ND | µg/m³ | | 1 | 2.3 |
| Bromodichloromethane | 12-DEC-08 13:53 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromodichloromethane | 12-DEC-08 13:53 | 1.5 | ND | µg/m³ | | 1 | 3.3 |
| Heptane | 12-DEC-08 13:53 | 0.302 | ND | ppb v/v | | 1 | 0.5 |
| Heptane | 12-DEC-08 13:53 | 1.2 | ND | µg/m³ | | 1 | 2.0 |
| cis-1,3-Dichloropropene | 12-DEC-08 13:53 | 0.289 | ND | ppb v/v | | 1 | 0.5 |
| cis-1,3-Dichloropropene | 12-DEC-08 13:53 | 1.3 | ND | µg/m³ | | 1 | 2.3 |
| 4-Methyl-2-Pentanone | 12-DEC-08 13:53 | 0.212 | ND | ppb v/v | | 1 | 0.5 |
| 4-Methyl-2-Pentanone | 12-DEC-08 13:53 | 0.87 | ND | µg/m³ | | 1 | 2.0 |
| Toluene | 12-DEC-08 13:53 | 0.279 | ND | ppb v/v | | 1 | 0.5 |
| Toluene | 12-DEC-08 13:53 | 1.1 | ND | µg/m³ | | 1 | 1.9 |
| trans-1,3-Dichloropropene | 12-DEC-08 13:53 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| trans-1,3-Dichloropropene | 12-DEC-08 13:53 | 1.0 | ND | µg/m³ | | 1 | 2.3 |
| 1,1,2-Trichloroethane | 12-DEC-08 13:53 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2-Trichloroethane | 12-DEC-08 13:53 | 1.2 | ND | µg/m³ | | 1 | 2.7 |
| Tetrachloroethene | 12-DEC-08 13:53 | 0.350 | ND | ppb v/v | | 1 | 0.5 |
| Tetrachloroethene | 12-DEC-08 13:53 | 2.4 | ND | µg/m³ | | 1 | 3.4 |
| 2-Hexanone | 12-DEC-08 13:53 | 0.346 | ND | ppb v/v | | 1 | 0.5 |
| 2-Hexanone | 12-DEC-08 13:53 | 1.4 | ND | µg/m³ | | 1 | 2.0 |
| Dibromochloromethane | 12-DEC-08 13:53 | 0.288 | ND | ppb v/v | | 1 | 0.5 |
| Dibromochloromethane | 12-DEC-08 13:53 | 2.4 | ND | µg/m³ | | 1 | 4.2 |
| 1,2-Dibromoethane | 12-DEC-08 13:53 | 0.315 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dibromoethane | 12-DEC-08 13:53 | 2.4 | ND | µg/m³ | | 1 | 3.8 |
| Chlorobenzene | 12-DEC-08 13:53 | 0.270 | ND | ppb v/v | | 1 | 0.5 |
| Chlorobenzene | 12-DEC-08 13:53 | 1.2 | ND | µg/m³ | | 1 | 2.3 |
| Ethylbenzene | 12-DEC-08 13:53 | 0.307 | ND | ppb v/v | | 1 | 0.5 |
| Ethylbenzene | 12-DEC-08 13:53 | 1.3 | ND | µg/m³ | | 1 | 2.2 |
| m,p-Xylene | 12-DEC-08 13:53 | 0.520 | ND | ppb v/v | | 1 | 1.0 |
| m,p-Xylene | 12-DEC-08 13:53 | 2.3 | ND | µg/m³ | | 1 | 4.3 |
| o-Xylene | 12-DEC-08 13:53 | 0.262 | ND | ppb v/v | | 1 | 0.5 |
| o-Xylene | 12-DEC-08 13:53 | 1.1 | ND | µg/m³ | | 1 | 2.2 |
| Styrene | 12-DEC-08 13:53 | 0.227 | ND | ppb v/v | | 1 | 0.5 |
| Styrene | 12-DEC-08 13:53 | 0.97 | ND | µg/m³ | | 1 | 2.1 |
| Bromoform | 12-DEC-08 13:53 | 0.226 | ND | ppb v/v | | 1 | 0.5 |
| Bromoform | 12-DEC-08 13:53 | 2.3 | ND | µg/m³ | | 1 | 5.1 |
| 1,1,2,2-Tetrachloroethane | 12-DEC-08 13:53 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| 1,1,2,2-Tetrachloroethane | 12-DEC-08 13:53 | 1.7 | ND | µg/m³ | | 1 | 3.4 |
| Benzyl Chloride | 12-DEC-08 13:53 | 0.252 | ND | ppb v/v | | 1 | 0.5 |
| Benzyl Chloride | 12-DEC-08 13:53 | 1.3 | ND | µg/m³ | | 1 | 2.6 |
| 4-Ethyl toluene | 12-DEC-08 13:53 | 0.183 | ND | ppb v/v | | 1 | 0.5 |

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.4
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S08CB004

Date Printed.....: 17-DEC-08 11:07
Client Name.....: Weston Solutions, Inc.

DCL Sample Name...: 08I06776
DCL Report Group..: 08I-1164-01

## Analytical Results

| Analyte | Date Analyzed | MDL | Result | Units | Qual. | Dilution | PQL |
|---|---|---|---|---|---|---|---|
| 4-Ethyl toluene | 12-DEC-08 13:53 | 0.90 | ND | µg/m³ | | 1 | 2.5 UJ |
| 1,3,5-Trimethylbenzene | 12-DEC-08 13:53 | 0.248 | ND | ppb v/v | | 1 | 0.5 |
| 1,3,5-Trimethylbenzene | 12-DEC-08 13:53 | 1.2 | ND | µg/m³ | | 1 | 2.5 |
| 1,2,4-Trimethylbenzene | 12-DEC-08 13:53 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trimethylbenzene | 12-DEC-08 13:53 | 1.1 | ND | µg/m³ | | 1 | 2.5 |
| 1,3-Dichlorobenzene | 12-DEC-08 13:53 | 0.236 | ND | ppb v/v | | 1 | 0.5 |
| 1,3-Dichlorobenzene | 12-DEC-08 13:53 | 1.4 | ND | µg/m³ | | 1 | 3.0 |
| 1,4-Dichlorobenzene | 12-DEC-08 13:53 | 0.303 | ND | ppb v/v | | 1 | 0.5 |
| 1,4-Dichlorobenzene | 12-DEC-08 13:53 | 1.8 | ND | µg/m³ | | 1 | 3.0 |
| 1,2-Dichlorobenzene | 12-DEC-08 13:53 | 0.224 | ND | ppb v/v | | 1 | 0.5 |
| 1,2-Dichlorobenzene | 12-DEC-08 13:53 | 1.3 | ND | µg/m³ | | 1 | 3.0 |
| 1,2,4-Trichlorobenzene | 12-DEC-08 13:53 | 0.361 | ND | ppb v/v | | 1 | 0.5 |
| 1,2,4-Trichlorobenzene | 12-DEC-08 13:53 | 2.7 | ND | µg/m³ | | 1 | 3.7 |
| Hexachlorobutadiene | 12-DEC-08 13:53 | 0.241 | ND | ppb v/v | | 1 | 0.5 |
| Hexachlorobutadiene | 12-DEC-08 13:53 | 2.6 | ND | µg/m³ | | 1 | 5.3 |

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## Tentatively Identified Compound Results

| Analyte(Retention Time) | Date Analyzed | Result | Units | Qual. | Dilution |
|---|---|---|---|---|---|
| Isobutane(4.31) | 12-DEC-08 13:53 | 29. | ppb v/v | J | 1 |
| Butane(4.54) | 12-DEC-08 13:53 | 9.2 | ppb v/v | J | 1 |
| Propane, 2,2-dimethyl-(4.65) | 12-DEC-08 13:53 | 2.5 | ppb v/v | J | 1 |
| Ethanol(5.01) | 12-DEC-08 13:53 | 4.1 | ppb v/v | J | 1 |
| Butane, 2-methyl-(5.31) | 12-DEC-08 13:53 | 12. | ppb v/v | J | 1 |
| Butane, 2,2-dimethyl-(6.31) | 12-DEC-08 13:53 | 2.8 | ppb v/v | J | 1 |
| Pentane, 2-methyl-(6.97) | 12-DEC-08 13:53 | 3.3 | ppb v/v | J | 1 |
| Pentane, 3-methyl-(7.27) | 12-DEC-08 13:53 | 2.6 | ppb v/v | J | 1 |
| CYCLOHEXANE, METHYL-(10.57) | 12-DEC-08 13:53 | 3.6 | ppb v/v | J | 1 |

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