

Report to:  
 Company: Doughterty Sprague Env.  
 Address: 3902 Industrial St.  
 Suite A  
 Rowlett, TX 75088  
 Contact: Curtis Franklin  
 Phone: 817-540-4100  
 Fax: 817-540-4101  
 Email: cfranklin@dsel.com

Invoice to:  
 Company: Doughterty Sprague Env.  
 Address: 3902 Industrial St.  
 Suite A  
 Rowlett, TX 75088  
 Contact: Deborah Farris  
 Phone: 972-412-8666  
 PO/ISO: 1038001

Sampler's Name (print) Charlotte Stockard  
 Sampler's Signature *Charlotte Stockard*  
 Proj. No. 1038001-5  
 Project Name Hinton Landfill Monitoring

| Date    | Time  | Can # | Identifying Marks of Sample(s) | TO-14VOCs | TO-15VOCs | TO-1 and/or TO-2 VOCs | FIXEDGASES (CO <sub>2</sub> , CO, O <sub>2</sub> , N <sub>2</sub> , CH <sub>4</sub> ) | Headspace (Please specify compounds) | Mercaptans & Organic Sulfur Compounds | TICS by GC/MS SCAN | RSK-175 (Methane, ethane, ethene) | MOLD ID | Lab Sample ID (Lab Use Only) |
|---------|-------|-------|--------------------------------|-----------|-----------|-----------------------|---|--------------------------------------|---------------------------------------|--------------------|-----------------------------------|---------|------------------------------|
| 4/15/11 | 2030- | 62213 | Sample #1 RW04161109           | X         |           |                       |   |                                      | X                                     |                    |                                   |         | GD11-0060-1                  |
| 4/15/11 | 0448  | 9904  | Sample #2 RW04161110           | X         |           |                       |   |                                      | X                                     |                    |                                   |         | -2                           |
| 4/15/11 | 0500  | 2515  | Sample #3 RW04161111           | X         |           |                       |   |                                      | X                                     |                    |                                   |         | -3                           |
| 4/18/11 |       |       | Can 62213 w/ FC 0608-20100103  |           |           |                       |   |                                      |                                       |                    |                                   |         |                              |
| 4/18/11 |       |       | Can 9904 " " FC 410410V        |           |           |                       |   |                                      |                                       |                    |                                   |         |                              |
| 4/18/11 |       |       | Can 2515 " " FC 410410V-3      |           |           |                       |   |                                      |                                       |                    |                                   |         |                              |

| Relinquished by: (Signature) | Date    | Time  | Received by: (Signature) | Date    | Time  | Remarks  |
|------------------------------|---------|-------|--------------------------|---------|-------|--|
| <i>Charlotte Stockard</i>    | 4-18-11 | 10:04 | <i>[Signature]</i>       | 4/18/11 | 10:04 | Normal TAJ<br>Scan + 3 Fe Pickup   |
| Relinquished by: (Signature) | Date    | Time  | Received by: (Signature) | Date    | Time  | Any change for Analysis Request should be submitted by a written document. |



CLIENT: Curtis Franklin
Dougherty Sprague Env., Inc.
3902 Industrial St. Suite A
Rowlett, TX 75088

GD Air Testing Lab. ID: GD11-0060-001
Report Date: 14-Mar-11
Date Analyzed: 10-Mar-11
Analyzed by: LAJ
GD Air QC Batch: QC-031011TO14
Method: EPATO14
NELAP Certification #: T104704364

Project No.: 1038001-5

REPORT OF ANALYTICAL RESULTS

Table with columns: SAMPLE DESCRIPTION, MATRIX, SAMPLE BY, SAMPLED DATE /RECEIVED, MW, CAS, PQL\* ppbv, RESULT ppbv, ug/cu M, NOTE. Lists various chemical constituents and their analytical results.



CLIENT: Curtis Franklin
Dougherty Sprague Env., Inc.
3902 Industrial St. Suite A
Rowlett, TX 75088

GD Air Testing Lab. ID: GD11-0060-001
Report Date: 14-Mar-11
Date Analyzed: 10-Mar-11
Analyzed by: LAJ
GD Air QC Batch: QC-031011TO14
Method: EPATO14
NELAP Certification #: T104704364

Project No.: 1038001-5

REPORT OF ANALYTICAL RESULTS

Table with columns: SAMPLE DESCRIPTION, MATRIX, SAMPLE BY, SAMPLED DATE /RECEIVED, MW, CAS, PQL\*, RESULT, NOTE. Includes rows for Trichlorofluoromethane, Trichlorotrifluoroethane, Vinyl Chloride, m&p-Xylenes, o-Xylene, and Surrogate Recovery Report.

\*Comparison with the method blank this sample run with a dilution factor of: 1.50
Canister #62213 was received at an initial pressure of -1.7psi and pressurized to 4.4psi.
N: Not in the Scope of NELAC Accrediation. Instrument calibration not performed for this analyte.
Analyte determined as tentatively identified compound (TIC).
\*RESULTS Listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit).
\* The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.
\*Concentrations in ug/cu M reported at 760 mm Hg pressure and 298 deg.K.
\*QA/QC reports followed this report include: Method blank, Blank spike (BS) and Blank spike duplicate (BSD)

Respectfully submitted
GD Air Testing, Inc.

Handwritten signature of George Dai

George Dai, Ph.D.
Laboratory Director
Data File:CHEM\gd5973.1\042011.B\04201132.D
Report File: GDAIR D:\Client-Report\GD11-0060-1



CLIENT: **Curtis Franklin  
DSE, Inc.  
3902 Industrial St., Suite A  
Rowlett, TX 75088**

GD Air Testing Lab. ID: **GD11-0060-1H2S**  
Report Date: **4/25/2011**  
Date Analyzed: **4/20/2011**  
Analyzed by: **JCA**  
GD QC Batch: **QC-042011H2S**

Project No.: **1038001-5**

Method: **ASTM 1946**

**REPORT OF ANALYTICAL RESULTS**

Page 1 of 1

| SAMPLE DESCRIPTION          | MATRIX | SAMPLED BY          | SAMPLED DATE /RECEIVED |                 |
|-----------------------------|--------|---------------------|------------------------|-----------------|
| <b>Sample #1-RW04161109</b> | Air    | <b>Charlotte S.</b> | <b>04/15/11</b>        | <b>04/18/11</b> |

  

| CONSTITUENT      | MW   | PQL*<br>ppmv | RESULT<br>ppmv | NOTE     |
|------------------|------|--------------|----------------|----------|
| Hydrogen Sulfide | 34.0 | 368          | <b>ND</b>      | <b>S</b> |

**S:** Not in the Scope of NELAC Accreditation. Constituent analyzed using ASTM 1946.  
Comparison with the method blank this sample run with a dilution factor of: **1.47**  
RESULTS listed as "ND" were not detected at or above the listed PQL (Practical Quantitation Limit).  
QA/QC reports following this report include: Method Blank, Blank Spike (BS), and Blank Spike Duplicate (BSD).

Respectfully submitted  
GD Air Testing, Inc.

George Dai, Ph.D.  
Laboratory Director

Report File: GDAIR D:\Client\_Report\gd11-0060-1H2S  
Data File: C:\HPCHEM\1\DATA\110420\1S1042005.D



CLIENT: **Curtis Franklin**  
**Dougherty Sprague Env., Inc.**  
**3902 Industrial St. Suite A**  
**Rowlett, TX 75088**

GD Air Testing Lab. ID: **GD11-0060-002**  
Report Date: **14-Mar-11**  
Date Analyzed: **10-Mar-11**  
Analyzed by: **LAJ**  
GD Air QC Batch: **QC-031011TO14**  
Method: **EPATO14**  
**NELAP Certification #:** **T104704364**

Project No.: **1038001-5**

**REPORT OF ANALYTICAL RESULTS**

| SAMPLE DESCRIPTION                   | MATRIX     | SAMPLE BY           | SAMPLED DATE /RECEIVED |                | NOTE        |
|--------------------------------------|------------|---------------------|------------------------|----------------|-------------|
|                                      |            |                     | 04/15/11               | 04/18/11       |             |
| <b>Sample #2-RW04161110</b>          | <b>Air</b> | <b>Charlotte S.</b> |                        |                |             |
| CONSTITUENT                          | MW         | CAS                 | PQL*<br>ppbv           | RESULT<br>ppbv | ug/cu M     |
| Benzene                              | 78         | 71432               | 0.2                    | <b>0.91</b>    | 2.91        |
| Benzylchloride                       | 126.6      | 100447              | 0.2                    | ND             | ND <b>N</b> |
| Bromomethane (Methyl Bromide)        | 94.9       | 74839               | 0.2                    | ND             | ND          |
| Carbon tetrachloride                 | 153.8      | 56235               | 0.2                    | ND             | ND          |
| Chlorobenzene                        | 112.6      | 108907              | 0.2                    | ND             | ND          |
| Chloroethane (Ethyl Chloride)        | 64.5       | 75003               | 0.2                    | ND             | ND          |
| Chloroform                           | 119        | 67663               | 0.2                    | ND             | ND          |
| Chloromethane (Methyl Chloride)      | 50.4       | 74873               | 0.2                    | <b>0.65</b>    | 1.35        |
| 1,2-Dibromoethane (EDB)              | 187.9      | 106934              | 0.2                    | ND             | ND          |
| 1,2-Dichlorobenzene                  | 147        | 95501               | 0.2                    | ND             | ND          |
| 1,3-Dichlorobenzene                  | 147        | 541731              | 0.2                    | ND             | ND          |
| 1,4-Dichlorobenzene                  | 147        | 106467              | 0.2                    | ND             | ND          |
| 1,1-Dichloroethane                   | 99         | 74343               | 0.2                    | ND             | ND          |
| 1,1-Dichlorethene                    | 97         | 75354               | 0.2                    | ND             | ND          |
| Dichlorodifluoromethane (F12)        | 120.9      | 75718               | 0.2                    | <b>0.75</b>    | 3.70        |
| Dichlorotetrafluoroethane (F114)     | 170.9      | 76142               | 0.2                    | ND             | ND          |
| 1,2-Dichloroethane (EDC)             | 99         | 107062              | 0.2                    | ND             | ND          |
| cis-1,2-Dichloroethene               | 97         | 156592              | 0.2                    | ND             | ND          |
| trans-1,2-Dichloroethene             | 97         | 156605              | 0.2                    | ND             | ND <b>N</b> |
| Dichloromethane (Methylene chloride) | 84.9       | 75092               | 0.2                    | ND             | ND          |
| 1,2-Dichloropropane                  | 113        | 78875               | 0.2                    | ND             | ND          |
| cis-1,3-Dichloropropene              | 111        | 10061015            | 0.2                    | ND             | ND          |
| trans-1,3-Dichloropropene            | 111        | 10061026            | 0.2                    | ND             | ND          |
| Ethylbenzene                         | 106        | 100414              | 0.2                    | ND             | ND          |
| Hexachlorobutadiene                  | 260.8      | 87683               | 0.3                    | ND             | ND          |
| Styrene                              | 104        | 100425              | 0.2                    | ND             | ND          |
| 1,1,2,2-Tetrachloroethane            | 167.9      | 79345               | 0.2                    | ND             | ND          |
| Tetrachloroethene (PCE)              | 165.8      | 127184              | 0.2                    | ND             | ND          |
| Toluene                              | 92         | 108883              | 0.2                    | <b>0.46</b>    | 1.7         |
| 1,1,1-Trichloroethane (TCA)          | 133.4      | 71556               | 0.2                    | ND             | ND          |
| 1,1,2-Trichloroethane                | 133.4      | 79005               | 0.2                    | ND             | ND          |
| 1,3,5-Trimethylbenzene               | 120.2      | 108678              | 0.2                    | ND             | ND          |
| 1,2,4-Trimethylbenzene               | 120.2      | 95636               | 0.2                    | ND             | ND          |
| 1,2,4-Trichlorobenzene               | 181.5      | 120821              | 0.2                    | ND             | ND          |
| Trichloroethene (TCE)                | 131.3      | 79016               | 0.2                    | ND             | ND          |



CLIENT: **Curtis Franklin**  
**Dougherty Sprague Env., Inc.**  
**3902 Industrial St. Suite A**  
**Rowlett, TX 75088**

GD Air Testing Lab. ID: **GD11-0060-002**  
Report Date: **14-Mar-11**  
Date Analyzed: **10-Mar-11**  
Analyzed by: **LAJ**  
GD Air QC Batch: **QC-031011TO14**  
Method: **EPATO14**  
**NELAP Certification #:** **T104704364**

Project No.: **1038001-5**

**REPORT OF ANALYTICAL RESULTS**

| SAMPLE DESCRIPTION               | MATRIX | SAMPLE BY           | SAMPLED DATE /RECEIVED |                | NOTE    |
|----------------------------------|--------|---------------------|------------------------|----------------|---------|
|                                  |        |                     | 04/15/11               | 04/18/11       |         |
| <b>Sample #2-RW04161110</b>      | Air    | <b>Charlotte S.</b> |                        |                |         |
| CONSTITUENT                      | MW     | CAS                 | PQL*<br>ppbv           | RESULT<br>ppbv | ug/cu M |
| Trichlorofluoromethane (F-11)    | 137.4  | 75694               | 0.2                    | <b>0.29</b>    | 1.62    |
| Trichlorotrifluoroethane (F-113) | 187.4  | 76131               | 0.2                    | ND             | ND      |
| Vinyl Chloride                   | 62.5   | 75014               | 0.2                    | ND             | ND      |
| m&p-Xylenes                      | 106    | 1330207             | 0.2                    | ND             | ND      |
| o-Xylene                         | 106    | 95476               | 0.2                    | ND             | ND      |
| <b>Surrogate Recovery Report</b> |        |                     | Spiked<br>ppbv         | Found<br>ppbv  | R%      |
| 1,4-Difluorobenzene (SS1)        | 118.1  | 540363              | 5.00                   | 5.30           | 106     |
| Bromofluorobenzene (SS2)         | 175    | 460004              | 5.00                   | 5.31           | 106     |

\*Comparison with the method blank this sample run with a dilution factor of: **1.23**

Canister #9904 was received at an initial pressure of 1.1psi and pressurized to 4.7psi.

**N:** Not in the Scope of NELAC Accrediation. Instrument calibration not performed for this analyte.

Analyte determined as tentatively identified compound (TIC).

\*RESULTS Listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit).

\* The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.

\*Concentrations in ug/cu M reported at 760 mm Hg pressure and 298 deg.K.

\*QA/QC reports followed this report include: Method blank, Blank spike (BS) and Blank spike duplicate (BSD)

Respectfully submitted  
GD Air Testing, Inc.

George Dai, Ph.D.

Laboratory Director

Data File:CHEM\gd5973.1\042011.B\04201127.D

Report File: GDAIR D:\Client-Report\GD11-0060-2



CLIENT: **Curtis Franklin  
DSE, Inc.  
3902 Industrial St., Suite A  
Rowlett, TX 75088**

GD Air Testing Lab. ID: **GD11-0060-2H2S**  
Report Date: **4/25/2011**  
Date Analyzed: **4/20/2011**  
Analyzed by: **JCA**  
GD QC Batch: **QC-042011H2S**

Project No.: **1038001-5**

Method: **ASTM 1946**

**REPORT OF ANALYTICAL RESULTS**

Page 1 of 1

| SAMPLE DESCRIPTION          | MATRIX | SAMPLED BY          | SAMPLED DATE /RECEIVED |                 |
|-----------------------------|--------|---------------------|------------------------|-----------------|
| <b>Sample #2-RW04161110</b> | Air    | <b>Charlotte S.</b> | <b>04/15/11</b>        | <b>04/18/11</b> |

  

| CONSTITUENT      | MW   | PQL*<br>ppmv | RESULT<br>ppmv | NOTE     |
|------------------|------|--------------|----------------|----------|
| Hydrogen Sulfide | 34.0 | 308          | <b>ND</b>      | <b>S</b> |

**S:** Not in the Scope of NELAC Accreditation. Constituent analyzed using ASTM 1946.  
Comparison with the method blank this sample run with a dilution factor of: **1.23**  
RESULTS listed as "ND" were not detected at or above the listed PQL (Practical Quantitation Limit).  
QA/QC reports following this report include: Method Blank, Blank Spike (BS), and Blank Spike Duplicate (BSD).

Respectfully submitted  
GD Air Testing, Inc.  
*Ag for Dr. Dai*  
George Dai, Ph.D.  
Laboratory Director

Report File: GDAIR D:\Client\_Report\gd11-0060-2H2S  
Data File: C:\HPCHEM1\DATA\110420\S1042006.D



CLIENT: Curtis Franklin
Dougherty Sprague Env., Inc.
3902 Industrial St. Suite A
Rowlett, TX 75088

GD Air Testing Lab. ID: GD11-0060-003
Report Date: 14-Mar-11
Date Analyzed: 10-Mar-11
Analyzed by: LAJ
GD Air QC Batch: QC-031011TO14
Method: EPATO14
NELAP Certification #: T104704364

Project No.: 1038001-5

REPORT OF ANALYTICAL RESULTS

Table with columns: SAMPLE DESCRIPTION, MATRIX, SAMPLE BY, SAMPLED DATE /RECEIVED, CONSTITUENT, MW, CAS, PQL\* ppbv, RESULT ppbv, ug/cu M, NOTE. Lists various chemical constituents and their analytical results.





CLIENT: **Curtis Franklin**  
**Dougherty Sprague Env., Inc.**  
**3902 Industrial St. Suite A**  
**Rowlett, TX 75088**

GD Air Testing Lab. ID: **GD11-0060-003**  
Report Date: **14-Mar-11**  
Date Analyzed: **10-Mar-11**  
Analyzed by: **LAJ**  
GD Air QC Batch: **QC-031011TO14**  
Method: **EPATO14**  
**NELAP Certification #:** **T104704364**

Project No.: **1038001-5**

**REPORT OF ANALYTICAL RESULTS**

| SAMPLE DESCRIPTION               | MATRIX     | SAMPLE BY           |        | SAMPLED DATE /RECEIVED |                 |
|----------------------------------|------------|---------------------|--------|------------------------|-----------------|
| <b>Sample #3-RW04161111</b>      | <b>Air</b> | <b>Charlotte S.</b> |        | <b>04/15/11</b>        | <b>04/18/11</b> |
| CONSTITUENT                      | MW         | CAS                 | PQL*   | RESULT                 | NOTE            |
|                                  |            |                     | ppbv   | ppbv                   | ug/cu M         |
| Trichlorofluoromethane (F-11)    | 137.4      | 75694               | 0.3    | <b>0.30</b>            | 1.66            |
| Trichlorotrifluoroethane (F-113) | 187.4      | 76131               | 0.3    | ND                     | ND              |
| Vinyl Chloride                   | 62.5       | 75014               | 0.3    | ND                     | ND              |
| m&p-Xylenes                      | 106        | 1330207             | 0.3    | ND                     | ND              |
| o-Xylene                         | 106        | 95476               | 0.3    | ND                     | ND              |
| <b>Surrogate Recovery Report</b> |            |                     | Spiked | Found                  | R%              |
|                                  |            |                     | ppbv   | ppbv                   |                 |
| 1,4-Difluorobenzene (SS1)        | 118.1      | 540363              | 5.00   | 5.20                   | 104             |
| Bromofluorobenzene (SS2)         | 175        | 460004              | 5.00   | 5.36                   | 107             |

\*Comparison with the method blank this sample run with a dilution factor of: **1.30**

Canister #2515 was received at an initial pressure of 0.3psi and pressurized to 4.8psi.

**N:** Not in the Scope of NELAC Accreditation. Instrument calibration not performed for this analyte.

Analyte determined as tentatively identified compound (TIC).

\*RESULTS Listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit).

\* The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.

\*Concentrations in ug/cu M reported at 760 mm Hg pressure and 298 deg.K.

\*QA/QC reports followed this report include: Method blank, Blank spike (BS) and Blank spike duplicate (BSD)

Respectfully submitted  
GD Air Testing, Inc.

*AJ for Dr. Dai*

George Dai, Ph.D.

Laboratory Director

Data File:CHEM\gd5973.1\042011.B\04201131.D

Report File: GDAIR D:\Client-Report\GD11-0060-3



CLIENT: **Curtis Franklin  
DSE, Inc.  
3902 Industrial St., Suite A  
Rowlett, TX 75088**

GD Air Testing Lab. ID: **GD11-0060-3H2S**  
Report Date: **4/25/2011**  
Date Analyzed: **4/20/2011**  
Analyzed by: **JCA**  
GD QC Batch: **QC-042011H2S**

Project No.: **1038001-5**

Method: **ASTM 1946**

**REPORT OF ANALYTICAL RESULTS**

Page 1 of 1

| SAMPLE DESCRIPTION          | MATRIX | SAMPLED BY          | SAMPLED DATE /RECEIVED |                 |
|-----------------------------|--------|---------------------|------------------------|-----------------|
| <b>Sample #3-RW04161111</b> | Air    | <b>Charlotte S.</b> | <b>04/15/11</b>        | <b>04/18/11</b> |

  

| CONSTITUENT      | MW   | PQL*<br>ppmv | RESULT<br>ppmv | NOTE     |
|------------------|------|--------------|----------------|----------|
| Hydrogen Sulfide | 34.0 | 325          | <b>ND</b>      | <b>S</b> |

**S:** Not in the Scope of NELAC Accreditation. Constituent analyzed using ASTM 1946. Comparison with the method blank this sample run with a dilution factor of: **1.30** RESULTS listed as "ND" were not detected at or above the listed PQL (Practical Quantitation Limit). QA/QC reports following this report include: Method Blank, Blank Spike (BS), and Blank Spike Duplicate (BSD).

Respectfully submitted  
GD Air Testing, Inc.  
*AJ for Dr. Dai*  
George Dai, Ph.D.  
Laboratory Director

Report File: GDAIR D:\Client\_Report\gd11-0060-3H2S  
Data File: C:\HPCHEM1\DATA\110420\S1042007.D



CLIENT: GD Air Testing, Inc.

GD Air Testing Lab. ID:

Method Blank

Report Date:

04/20/11

Date Analyzed:

04/20/11

Analyzed by:

LAJ

GD Air QC Batch:

QC-042011

Project No.:

Method:

EPATO14

NELAP Certification #:

T104704364

REPORT OF METHOD BLANK RESULTS

| SAMPLE DESCRIPTION                    | MATRIX | SAMPLE BY |      | SAMPLED DATE /RECEIVED |         |   |
|---------------------------------------|--------|-----------|------|------------------------|---------|---|
| BLK                                   | Air    |           |      |                        |         |   |
| CONSTITUENT                           | MW     | CAS       | PQL* | RESULT                 | NOTE    |   |
|                                       |        |           | ppbv | ppbv                   | ug/cu M |   |
| Benzene                               | 78     | 71432     | 0.20 | ND                     | ND      |   |
| Benzylchloride                        | 126.6  | 100447    | 0.20 | ND                     | ND      | N |
| Bromomethane (Methyl Bromide)         | 94.9   | 74839     | 0.20 | ND                     | ND      |   |
| Carbon tetrachloride                  | 153.8  | 56235     | 0.20 | ND                     | ND      |   |
| Chlorobenzene                         | 112.6  | 108907    | 0.20 | ND                     | ND      |   |
| Chloroethane (Ethyl Chloride)         | 64.5   | 75003     | 0.20 | ND                     | ND      |   |
| Chloroform                            | 119    | 67663     | 0.20 | ND                     | ND      |   |
| Chloromethane (Methyl Chloride)       | 50.4   | 74873     | 0.20 | ND                     | ND      |   |
| 1,2-Dibromoethane (EDB)               | 187.9  | 106934    | 0.20 | ND                     | ND      |   |
| 1,2-Dichlorobenzene                   | 147    | 95501     | 0.20 | ND                     | ND      |   |
| 1,3-Dichlorobenzene                   | 147    | 541731    | 0.20 | ND                     | ND      |   |
| 1,4-Dichlorobenzene                   | 147    | 106467    | 0.20 | ND                     | ND      |   |
| 1,1-Dichloroethane                    | 99     | 74343     | 0.20 | ND                     | ND      |   |
| 1,1-Dichlorethene                     | 97     | 75354     | 0.20 | ND                     | ND      |   |
| Dichlorodifluoromethane (F12)         | 120.9  | 75718     | 0.20 | ND                     | ND      |   |
| Dichlorotetrafluoroethane (F114)      | 170.9  | 76142     | 0.20 | ND                     | ND      |   |
| 1,2-Dichloroethane (EDC)              | 99     | 107062    | 0.20 | ND                     | ND      |   |
| cis-1,2-Dichloroethene                | 97     | 156592    | 0.20 | ND                     | ND      |   |
| trans-1,2-Dichloroethene              | 97     | 156605    | 0.20 | ND                     | ND      | N |
| Dichloromethane (Methylene chloride)  | 84.9   | 75092     | 0.20 | ND                     | ND      |   |
| 1,2-Dichloropropane                   | 113    | 78875     | 0.20 | ND                     | ND      |   |
| cis-1,3-Dichloropropene               | 111    | 10061015  | 0.20 | ND                     | ND      |   |
| trans-1,3-Dichloropropene             | 111    | 10061026  | 0.20 | ND                     | ND      |   |
| Ethylbenzene                          | 106    | 100414    | 0.20 | ND                     | ND      |   |
| Hexachlorobutadiene                   | 260.8  | 87683     | 0.20 | ND                     | ND      |   |
| Styrene                               | 104    | 100425    | 0.20 | ND                     | ND      |   |
| 1,1,2,2-Tetrachloroethane             | 167.9  | 79345     | 0.20 | ND                     | ND      |   |
| Tetrachloroethene (PCE)               | 165.8  | 127184    | 0.20 | ND                     | ND      |   |
| Toluene                               | 92     | 108883    | 0.20 | ND                     | ND      |   |
| 1,1,1-Trichloroethane (TCA)           | 133.4  | 71556     | 0.20 | ND                     | ND      |   |
| 1,1,2-Trichloroethane                 | 133.4  | 79005     | 0.20 | ND                     | ND      |   |
| 1,3,5-Trimethylbenzene/4-Ethyltoluene | 120.2  | 108678    | 0.20 | ND                     | ND      |   |
| 1,2,4-Trimethylbenzene                | 120.2  | 95636     | 0.20 | ND                     | ND      |   |
| 1,2,4-Trichlorobenzene                | 181.5  | 120821    | 0.20 | ND                     | ND      |   |
| Trichloroethene (TCE)                 | 131.3  | 79016     | 0.20 | ND                     | ND      |   |



CLIENT: GD Air Testing, Inc.

GD Air Testing Lab. ID:

Method Blank

Report Date:

04/20/11

Date Analyzed:

04/20/11

Analyzed by:

LAJ

Project No.: QC

GD Air QC Batch:

QC-042011

Method:

EPATO14

NELAP Certification #:

T104704364

REPORT OF METHOD BLANK RESULTS

Page 2 of 2

| SAMPLE DESCRIPTION               | MATRIX | SAMPLE BY |        | SAMPLED DATE /RECEIVED |         |  |
|----------------------------------|--------|-----------|--------|------------------------|---------|--|
| BLK                              | Air    |           |        |                        |         |  |
| CONSTITUENT                      | MW     | CAS       | PQL*   | RESULT                 | NOTE    |  |
|                                  |        |           | ppbv   | ppbv                   | ug/cu M |  |
| Trichlorofluoromethane (F-11)    | 137.4  | 75694     | 0.20   | ND                     | ND      |  |
| Trichlorotrifluoroethane (F-113) | 187.4  | 76131     | 0.20   | ND                     | ND      |  |
| Vinyl Chloride                   | 62.5   | 75014     | 0.20   | ND                     | ND      |  |
| m&p-Xylenes                      | 106    | 1330207   | 0.20   | ND                     | ND      |  |
| o-Xylene                         | 106    | 95476     | 0.20   | ND                     | ND      |  |
| <b>Surrogate Recovery Report</b> |        |           | Spiked | Found                  | R%      |  |
|                                  |        |           | ppbv   | ppbv                   |         |  |
| 1,4-Difluorobenzene (SS1)        | 118.1  | 540363    | 5.00   | 5.38                   | 107.6   |  |
| Bromofluorobenzene (SS2)         | 175    | 460004    | 5.00   | 4.81                   | 96.2    |  |

\*Comparison with the method blank this sample run with a dilution factor of:

1.0

N: Not included in the Scope of NELAC Accrediation. Instrument calibration not performed for this analyte.

Analyte determined as tentatively identified compound (TIC).

\*RESULTS Listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit).

\* The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.

\*Concentrations in ug/cu M reported at 760 mm Hg pressure and 298 deg.K.

\*QA/QC reports followed this report include: Method blank, Blank spike (BS) and Blank spike duplicate (BSD)

Respectfully submitted

GD Air Testing, Inc.

*George Dai*  
George Dai, Ph.D.  
Laboratory Director

Data File: Chemstation\c\chem\gd5973.I\042011.B\04201107.D

Report File: GD SR\ID\QC-11-TO14\Blank



CLIENT: GD Air Testing, Inc.

GD Air Testing Lab. ID:

BS/BSD

Report Date:

04/20/11

Date Analyzed:

04/20/11

Project No.:

Analyzed by:

LAJ

GD Air QC Batch:

QC-042011

Method:

EPATO14

NELAP Certification #:

T104704364-09-TX

REPORT OF BLANK SPIKE RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION | MATRIX | SAMPLE BY | SAMPLED DATE /RECEIVED |
|--------------------|--------|-----------|------------------------|
| BS/BSD             | Air    |           |                        |

| Spike Control Compounds | Spiked<br>ppbv | Found and Recovery |       |     |        |       |
|-------------------------|----------------|--------------------|-------|-----|--------|-------|
|                         |                | BS/ppbv            | BS R% | BSD | BSD R% | % RPD |

VOLATILE ORGANICS BY EPA TO-14

|                                      |     |     |     |     |     |      |
|--------------------------------------|-----|-----|-----|-----|-----|------|
| Vinyl Chloride                       | 5.0 | 5.7 | 113 | 5.3 | 105 | 7.5  |
| Methylene chloride (Dichloromethane) | 5.0 | 5.9 | 118 | 5.3 | 106 | 10.4 |
| 1,1,1-Trichloroethane                | 5.0 | 6.2 | 125 | 5.8 | 116 | 7.1  |
| 1,2-Dichloroethane (EDC)             | 5.0 | 5.8 | 116 | 5.6 | 112 | 3.7  |
| Benzene                              | 5.0 | 5.6 | 113 | 5.4 | 107 | 5.1  |
| Carbon tetrachloride                 | 5.0 | 6.0 | 121 | 5.6 | 112 | 7.4  |
| Trichloroethene (TCE)                | 5.0 | 6.1 | 122 | 5.7 | 114 | 7.0  |
| Toluene                              | 5.0 | 6.1 | 123 | 5.5 | 110 | 11.2 |
| Chlorobenzene                        | 5.0 | 5.5 | 109 | 5.2 | 103 | 5.7  |
| Ethylbenzene                         | 5.0 | 6.0 | 120 | 5.7 | 114 | 5.3  |
| o-Xylene                             | 5.0 | 6.3 | 127 | 6.1 | 122 | 4.0  |

Surrogate Recovery Report

|                           |     |      |       |      |       |     |
|---------------------------|-----|------|-------|------|-------|-----|
| 1,4-Difluorobenzene (SS1) | 5.0 | 5.17 | 103.4 | 5.20 | 104.0 | 0.6 |
| Bromofluorobenzene (SS2)  | 5.0 | 4.71 | 94.2  | 5.08 | 101.6 | 7.6 |

\*CN: See case narrative.

\* The control limit for BS Recovery % of all spiked compound is 70% - 130%

\* The control limit for relative percentage difference of BS/BSD is 30%

\* If any control compound is not within the control limit, please see the case narrative for more details.

\* The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.

Respectfully submitted

GD Air Testing, Inc.

*George Dai*

George Dai, Ph.D.  
Laboratory Director

Data File: c:\chem\gd5973.I\042011.B\04201103.D and 04201104.D

Report File: GD\SR\ID\QC-TO14\BS-BSD



CLIENT: GD Air Testing, Inc.

GD Air Testing Lab. ID: **QC-BLK-042011H2S**

Report Date: 4/25/2011

Date Analyzed: 4/20/2011

Analyzed by: JCA

GD QC Batch: **QC-042011H2S**

NELAP Certification No.: T104704364

Method: **ASTM 1946**

REPORT OF METHOD BLANK RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION | MATRIX | SAMPLED BY | SAMPLED DATE /RECEIVED |          |
|--------------------|--------|------------|------------------------|----------|
| Blank              | Air    | JCA        | 04/20/11               | 04/20/11 |

  

| CONSTITUENT      | MW   | PQL* | RESULT | NOTE |
|------------------|------|------|--------|------|
|                  |      | ppmv | ppmv   |      |
| Hydrogen Sulfide | 34.0 | 250  | ND     |      |

\* If any compound is out of control limit, please see the case narrative for more details.

Respectfully submitted  
GD Air Testing, Inc.

George Dai, Ph.D.  
Laboratory Director

Report File: GDAIR D:\Client\_Report\QC-blk-042011-H2S  
Data File: C:\HPCHEM\1\DATA\110420\1S1042002.D

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CLIENT: GD Air Testing Inc. QA

GD Air Testing Lab. ID: **QC-042011H2S**  
Report Date: 4/25/2011  
Date Analyzed: 4/20/2011  
Analyzed by: JCA  
NELAP Certification No.: T104704364  
Method: ASTM 1946

REPORT OF BLANK SPIKE RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION | MATRIX         | SAMPLE BY          | SAMPLED DATE /RECEIVED |      |         |       |
|--------------------|----------------|--------------------|------------------------|------|---------|-------|
| BS/BSD             | GAS            |                    |                        |      |         |       |
| CONSTITUENT        | Spiked<br>ppmv | Found and Recovery |                        |      | NOTE    |       |
|                    |                | BS                 | BS, R%                 | BSD  | BSD, R% | RPD % |
| Hydrogen Sulfide   | 1000           | 1250               | 125                    | 1260 | 126     | 0.8   |

\* The control limit for BS Recovery % of all spiked compound is 70% - 130%  
\*\* The control limit for relative percentage difference of BS/BSD is 30%  
\*\*\* If any control compound is not within the control limit, please see the case narrative for more details.

Respectfully submitted  
GD Air Testing, Inc.

George Dai, Ph.D.  
Laboratory Director

Data File: C:\HPCHEM\1\DATA\110420\S1042003.D, S1042004.D  
Report File: GDAIR D:\Client\_Report\H2S-BS-042011F