

US EPA ARCHIVE DOCUMENT

Appendix A  
Groundwater Sampling Forms and  
Gauging Sheets

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# GROUNDWATER SAMPLING FORM

|                                                                                      |                                                              |                                  |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------|
| <b>PROJECT:</b> Former General Latex and Chemical Company<br>Spring 2011 Field Event |                                                              | <b>WELL ID:</b> MW-3             |
| <b>Sampler(s):</b> D. Tede / 0.0                                                     |                                                              | <b>DATE/TIME:</b> 04/28/11, 1415 |
| <b>Well Diameter:</b> 2"                                                             | <b>Weather Conditions:</b> Cloudy and wind                   |                                  |
| <b>PID Reading:</b> 0.0                                                              | <b>Purge Method:</b> (Circle One) <u>Low Flow</u> Volumetric |                                  |

## SECTION 1: Purge Volume Information

|                                                 |                                             |
|-------------------------------------------------|---------------------------------------------|
| <b>(1) TD = Total Depth of Well (ft):</b> 29.08 | <b>(2) DTW = Depth to Water (ft):</b> 19.71 |
|-------------------------------------------------|---------------------------------------------|

## SECTION 2: For Volumetric Sampling Only

|                                                              |                                              |
|--------------------------------------------------------------|----------------------------------------------|
| <b>(3) Height of Water in Well = TD - DTW = [(1)-(2)]:</b> — | <b>(4) One Purge Volume<sup>2,3</sup>:</b> — |
|--------------------------------------------------------------|----------------------------------------------|

## SECTION 3: Field Parameter Data

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | ORP               | Turbidity | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------------|-------------------|-----------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L                  | mV                | NTUs      | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | -190.0 - 240.0 mV | —         | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   |      | +/- 0.1         | +/- 3%                | +/- 0.3 mg/L          | +/- 10 mV         | <50       | +/- 0.2         |
| First Water      | 19.73 | 1425 | 6.78            | 2.687                 | 1.92                  | -27               | 94.1      | 13.29           |
| 1                | 19.75 | 1430 | 6.67            | 2.627                 | 1.02                  | -42.8             | 64.8      | 13.03           |
| 2                | 19.73 | 1435 | 6.65            | 2.407                 | 0.82                  | -51.1             | 31.8      | 13.19           |
| 3                | 19.72 | 1440 | 6.64            | 2.262                 | 0.75                  | -54.2             | 18.3      | 13.46           |
| 4                | 19.71 | 1445 | 6.62            | 2.193                 | 0.73                  | -56.9             | 13.4      | 13.51           |
| 5                |       |      |                 |                       |                       |                   |           |                 |
| 6                |       |      |                 |                       |                       |                   |           |                 |

**Stabilization Parameters Used (min. three):**
pH
Sp. Cond.
DO
ORP

## SECTION 4: Equipment and Method Information

**Purging Equipment:** peristaltic pump  
**Purge/Flow Rate:** ~ 150 ml/min **Total Volume Purged:** ~ 1.5 gallon  
**Field Parameter Instruments:** YSI, Turbidity meter, water level meter

## SECTION 5: Sample Information

| Samples         | ID                | Time | VOCs | Other | Other |
|-----------------|-------------------|------|------|-------|-------|
| Parent          | MW03GW1626-042811 | 1450 | X    |       |       |
| Duplicate       |                   |      |      |       |       |
| MS/MSD          |                   |      |      |       |       |
| Equipment Blank |                   |      |      |       |       |

## REMARKS:

## NOTES:

1 - DENOTES STABILIZATION PARAMETERS.

2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft

3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft



## GROUNDWATER SAMPLING FORM

|                                                                               |                   |                                                          |
|-------------------------------------------------------------------------------|-------------------|----------------------------------------------------------|
| PROJECT: Former General Latex and Chemical Company<br>Spring 2011 Field Event |                   | WELL ID: MW-07                                           |
|                                                                               |                   | DATE/TIME: 04/27/11, 1325                                |
| Sampler(s):<br>D. Tecle / 0.0                                                 | Well Diameter: 2" | Weather Conditions: light rain                           |
|                                                                               | PID Reading: 0.0  | Purge Method:<br>(Circle One) <u>Low Flow</u> Volumetric |

## SECTION 1: Purge Volume Information

(1) TD = Total Depth of Well (ft): 28.30 (2) DTW = Depth to Water (ft): 19.40

## SECTION 2: For Volumetric Sampling Only

(3) Height of Water in Well = TD - DTW = [(1)-(2)]: — (4) One Purge Volume<sup>2,3</sup>: —

## SECTION 3: Field Parameter Data

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | ORP               | Turbidity | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------------|-------------------|-----------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L                  | mV                | NTUs      | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | -190.0 - 240.0 mV | —         | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   |      | +/- 0.1         | +/- 3%                | +/- 0.3 mg/L          | +/- 10 mV         | <50       | +/- 0.2         |
| First Water      | 19.41 | 1355 | 7.84            | 1.162                 | 4.52                  | -32.7             | 476.4     | 17.33           |
| 1                | 19.42 | 1400 | 7.22            | 1.466                 | 1.25                  | -45.3             | 302       | 16.20           |
| 2                | 19.41 | 1405 | 7.09            | 1.469                 | 1.07                  | -53.2             | 287       | 16.34           |
| 3                | 19.40 | 1410 | 7.08            | 1.476                 | 1.13                  | -59.1             | 193       | 16.44           |
| 4                | 19.40 | 1415 | 7.09            | 1.479                 | 1.21                  | -61.5             | 153       | 16.41           |
| 5                | 19.41 | 1420 | 7.10            | 1.481                 | 1.24                  | -64.9             | 115       | 16.33           |
| 6                | 19.40 | 1425 | 7.10            | 1.480                 | 1.26                  | -63.1             | 98        | 16.32           |

Stabilization Parameters Used (min. three): pH Sp Cond. DO ORP

## SECTION 4: Equipment and Method Information

Purging Equipment: Peristaltic Pump  
Purge/Flow Rate: ~150 ml/min Total Volume Purged: ~1.5 gallons  
Field Parameter Instruments: YSI, water level meter, turbidity meter

## SECTION 5: Sample Information

| Samples         | ID                        | Time | VOCs | Other | Other |
|-----------------|---------------------------|------|------|-------|-------|
| Parent          | MW07 GW2030-042711        | 1430 | X    | —     | —     |
| Duplicate       | —                         | —    | —    | —     | —     |
| MS/MSD          | MW07 GW2030-042711-MS/MSD | 1430 | X    | —     | —     |
| Equipment Blank | —                         | 1430 | —    | —     | —     |

## REMARKS:

## NOTES:

1 - DENOTES STABILIZATION PARAMETERS.

2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft

3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft



# GROUNDWATER SAMPLING FORM

|                                                                                      |                          |                                                              |
|--------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------|
| <b>PROJECT:</b> Former General Latex and Chemical Company<br>Spring 2011 Field Event |                          | <b>WELL ID:</b> MW-89                                        |
|                                                                                      |                          | <b>DATE/TIME:</b> 04/28/11, 1340                             |
| <b>Sampler(s):</b> D. Teale / 0.0                                                    | <b>Well Diameter:</b> 2" | <b>Weather Conditions:</b> cloudy and wind                   |
|                                                                                      | <b>PID Reading:</b> 0.0  | <b>Purge Method:</b> (Circle One) <u>Low Flow</u> Volumetric |

## SECTION 1: Purge Volume Information

(1) TD = Total Depth of Well (ft): 26.50' (2) DTW = Depth to Water (ft): 18.52'

## SECTION 2: For Volumetric Sampling Only

(3) Height of Water in Well = TD - DTW = [(1)-(2)]: — (4) One Purge Volume<sup>2,3</sup>: —

## SECTION 3: Field Parameter Data

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | ORP               | Turbidity | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------------|-------------------|-----------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L                  | mV                | NTUs      | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | -190.0 - 240.0 mV | —         | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   |      | +/- 0.1         | +/- 3%                | +/- 0.3 mg/L          | +/- 10 mV         | <50       | +/- 0.2         |
| First Water      | 18.53 | 1345 | 6.88            | 2.494                 | 4.20                  | 9.7               | 9.0       | 12.98           |
| 1                | 18.52 | 1350 | 6.80            | 2.475                 | 3.80                  | 4.5               | 4.2       | 13.09           |
| 2                | 18.53 | 1355 | 6.78            | 2.465                 | 3.67                  | -4.0              | 3.6       | 13.18           |
| 3                | 18.52 | 1400 | 6.71            | 2.461                 | 3.67                  | -12.9             | 1.3       | 13.13           |
| 4                | 18.53 | 1405 | 6.69            | 2.463                 | 3.60                  | -18.9             | 1.2       | 13.14           |
| 5                | 18.51 | 1410 | 6.68            | 2.464                 | 3.50                  | -22.1             | 1.4       | 13.16           |
| 6                |       |      |                 |                       |                       |                   |           |                 |

Stabilization Parameters Used (min. three): pH Sp. Cond. DO ORP

## SECTION 4: Equipment and Method Information

Purging Equipment: peristaltic pump  
Purge/Flow Rate: ~150 mL/min Total Volume Purged: ~1 gallon  
Field Parameter Instruments: YSI, Turbidity meter, water level meter

## SECTION 5: Sample Information

| Samples         | ID                | Time | VOCs | Other | Other |
|-----------------|-------------------|------|------|-------|-------|
| Parent          | MW09GW1424-042811 | 1410 | X    |       |       |
| Duplicate       |                   |      |      |       |       |
| MS/MSD          |                   |      |      |       |       |
| Equipment Blank |                   |      |      |       |       |

## REMARKS:

## NOTES:

1 - DENOTES STABILIZATION PARAMETERS.

2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft

3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft



## GROUNDWATER SAMPLING FORM

|                                                                               |  |                                                       |  |
|-------------------------------------------------------------------------------|--|-------------------------------------------------------|--|
| PROJECT: Former General Latex and Chemical Company<br>Spring 2011 Field Event |  | WELL ID: MW-30                                        |  |
| Sampler(s): D. Tede/O.O                                                       |  | DATE/TIME: 04/28/11, 11:00                            |  |
| Well Diameter: 2"                                                             |  | Weather Conditions: partly cloudy                     |  |
| PID Reading: 0.0                                                              |  | Purge Method: (Circle One) <u>Low Flow</u> Volumetric |  |

**SECTION 1: Purge Volume Information**

|                                           |                                       |
|-------------------------------------------|---------------------------------------|
| (1) TD = Total Depth of Well (ft): 35.24' | (2) DTW = Depth to Water (ft): 21.10' |
|-------------------------------------------|---------------------------------------|

**SECTION 2: For Volumetric Sampling Only**

|                                                       |                                         |
|-------------------------------------------------------|-----------------------------------------|
| (3) Height of Water in Well = TD - DTW = [(1)-(2)]: — | (4) One Purge Volume <sup>2,3</sup> : — |
|-------------------------------------------------------|-----------------------------------------|

**SECTION 3: Field Parameter Data**

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | ORP               | Turbidity | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------------|-------------------|-----------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L                  | mV                | NTUs      | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | -190.0 - 240.0 mV | —         | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   |      | +/- 0.1         | +/- 3%                | +/- 0.3 mg/L          | +/- 10 mV         | <50       | +/- 0.2         |
| First Water      | 21.15 | 1110 | 6.92            | 1.969                 | 1.15                  | 4.4               | 1.2       | 13.41           |
| 1                | 21.12 | 1115 | 6.85            | 1.958                 | 2.30                  | -8.9              | 3.1       | 13.37           |
| 2                | 21.15 | 1120 | 6.84            | 1.944                 | 8.69                  | -17.5             | 4.2       | 13.27           |
| 3                | 21.15 | 1125 | 6.82            | 1.913                 | 8.38                  | -29.5             | 1.3       | 13.28           |
| 4                | 21.15 | 1130 | 6.81            | 1.896                 | 8.21                  | -31.3             | 2.3       | 13.24           |
| 5                | 21.16 | 1135 | 6.80            | 1.879                 | 8.01                  | -36.3             | 1.1       | 13.23           |
| 6                |       |      |                 |                       |                       |                   |           |                 |

Stabilization Parameters Used (min. three): pH Sp. Cond. DO ORP

**SECTION 4: Equipment and Method Information**

Purging Equipment: Peristaltic pump

Purge/Flow Rate: ~ 150 ml/min Total Volume Purged: ~ 1.5 gallons

Field Parameter Instruments: YSS, Turbidity meter, water level meter.

**SECTION 5: Sample Information**

| Samples         | ID                 | Time | VOCs | Other | Other |
|-----------------|--------------------|------|------|-------|-------|
| Parent          | MW10 GW1732-042811 | 1140 | X    |       |       |
| Duplicate       |                    |      |      |       |       |
| MS/MSD          |                    |      |      |       |       |
| Equipment Blank |                    |      |      |       |       |

REMARKS:

NOTES:

1 - DENOTES STABILIZATION PARAMETERS.

2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft

3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft



## GROUNDWATER SAMPLING FORM

|                                                                                      |                          |                                                                                                                 |
|--------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>PROJECT:</b> Former General Latex and Chemical Company<br>Spring 2011 Field Event |                          | <b>WELL ID:</b> MW-12                                                                                           |
|                                                                                      |                          | <b>DATE/TIME:</b> 04/28/11, 1020                                                                                |
| <b>Sampler(s):</b><br>D. Tede/0.0                                                    | <b>Well Diameter:</b> 2" | <b>Weather Conditions:</b> Windy / Sunny                                                                        |
|                                                                                      | <b>PID Reading:</b> 0.0  | <b>Purge Method:</b><br>(Circle One) Low Flow <input checked="" type="radio"/> Volumetric <input type="radio"/> |

## SECTION 1: Purge Volume Information

(1) TD = Total Depth of Well (ft): 21.3' (2) DTW = Depth to Water (ft): 8.69'

## SECTION 2: For Volumetric Sampling Only

(3) Height of Water in Well = TD - DTW = [(1)-(2)]: 12.61 (4) One Purge Volume<sup>2,3</sup>: 2.01

## SECTION 3: Field Parameter Data

| Parameter        | DTW                             | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | ORP               | Turbidity | Temperature     |
|------------------|---------------------------------|------|-----------------|-----------------------|-----------------------|-------------------|-----------|-----------------|
| Parameter Units  | ft                              |      | SU              | mS/cm                 | mg/L                  | mV                | NTUs      | C°              |
| Acceptable Range | -                               | -    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | -190.0 - 240.0 mV | -         | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4                             |      | +/- 0.1         | +/- 3%                | +/- 0.3 mg/L          | +/- 10 mV         | <50       | +/- 0.2         |
| First Water      | 9.49                            | 1030 | 7.50            | 0.528                 | 2.90                  | -28.9             | 34.3      | 11.60           |
| 1                | 12.10                           | 1035 | 7.22            | 0.509                 | 4.54                  | -34.8             | 25.4      | 11.97           |
| 2                | 14.95                           | 1040 | 7.15            | 0.505                 | 4.31                  | -47.3             | 19.5      | 11.85           |
| 3                | Switched to Volumetric Sampling |      |                 |                       |                       |                   |           |                 |
| 4                | 17.31                           | 1045 | 7.09            | 0.507                 | 3.65                  | -55.0             | 36.9      | 11.65           |
| 5                | DM                              | 1050 | 7.06            | 0.508                 | 2.22                  | -56.0             | 39.4      | 11.99           |
| 6                |                                 |      |                 |                       |                       |                   |           |                 |

Stabilization Parameters Used (min. three): pH Sp. Cond. DO ORP

## SECTION 4: Equipment and Method Information

Purging Equipment: peristaltic pump

Purge/Flow Rate: ~100 ml/min to 300 ml/min Total Volume Purged: 3.5 gallons

Field Parameter Instruments: YSI, Turbidity meter, water level meter

## SECTION 5: Sample Information

| Samples         | ID                   | Time | VOCs | Other | Other |
|-----------------|----------------------|------|------|-------|-------|
| Parent          | MW 12 GW 1424-042811 | 1055 | X    |       |       |
| Duplicate       |                      |      |      |       |       |
| MS/MSD          |                      |      |      |       |       |
| Equipment Blank |                      |      |      |       |       |

## REMARKS:

## NOTES:

1 - DENOTES STABILIZATION PARAMETERS.

2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft

3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft



## GROUNDWATER SAMPLING FORM

|                                                                               |                   |                                                                                                          |
|-------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|
| PROJECT: Former General Latex and Chemical Company<br>Spring 2011 Field Event |                   | WELL ID: MW-16                                                                                           |
| DATE/TIME: 04/27/11, 1605                                                     |                   |                                                                                                          |
| Sampler(s):<br>D. Tecle                                                       | Well Diameter: 2" | Weather Conditions: partly cloudy                                                                        |
| PID Reading: 0.0                                                              |                   | Purge Method:<br>(Circle One) Low Flow <input checked="" type="radio"/> Volumetric <input type="radio"/> |

## SECTION 1: Purge Volume Information

(1) TD = Total Depth of Well (ft): 20.20' (2) DTW = Depth to Water (ft): 6.35

## SECTION 2: For Volumetric Sampling Only

(3) Height of Water in Well = TD - DTW = [(1)-(2)]: 13.85' (4) One Purge Volume<sup>2,3</sup>: 2.2 gallons

## SECTION 3: Field Parameter Data

| Parameter        | DTW   | Time | pH <sup>1</sup>                                 | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | ORP               | Turbidity | Temperature     |
|------------------|-------|------|-------------------------------------------------|-----------------------|-----------------------|-------------------|-----------|-----------------|
| Parameter Units  | ft    |      | SU                                              | mS/cm                 | mg/L                  | mV                | NTUs      | C°              |
| Acceptable Range | -     | -    | 6.00 - 8.00                                     | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | -190.0 - 240.0 mV | -         | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   |      | +/- 0.1                                         | +/- 3%                | +/- 0.3 mg/L          | +/- 10 mV         | <50       | +/- 0.2         |
| First Water      | 7.32  | 1610 | 7.08                                            | 1.550                 | 2.54                  | -61.9             | 15.2      | 12.43           |
| 1                | 9.40  | 1615 | 6.68                                            | 1.532                 | 0.64                  | -108.8            | 2.2       | 12.27           |
| 2                |       |      | Switched to volumetric pump - increased pumping |                       |                       |                   |           |                 |
| 3                | 10.93 | 1620 | 6.66                                            | 1.527                 | 0.47                  | -129.4            | 9.3       | 11.91           |
| 4                | 13.49 | 1625 | 6.65                                            | 1.487                 | 0.43                  | -138.8            | 10.7      | 11.74           |
| 5                | DM    | 1640 | 6.65                                            | 1.506                 | 0.62                  | -150.9            | 24.3      | 12.28           |
| 6                |       | 16   |                                                 |                       |                       |                   |           |                 |

Stabilization Parameters Used (min. three): pH Sp. Cond. DO ORP

## SECTION 4: Equipment and Method Information

Purging Equipment: Peristaltic pump

Purge/Flow Rate: ~ 100 ml/min @ 350 ml Total Volume Purged: ~ 5.5 gallons

Field Parameter Instruments: YSI, Turbidity meter, Water level meter.

## SECTION 5: Sample Information

| Samples         | ID                      | Time | VOCs | Other | Other |
|-----------------|-------------------------|------|------|-------|-------|
| Parent          | MW 16 GW 10 20 - 042711 | 1650 | X    |       |       |
| Duplicate       |                         |      |      |       |       |
| MS/MSD          |                         |      |      |       |       |
| Equipment Blank |                         |      |      |       |       |

## REMARKS:

## NOTES:

1 - DENOTES STABILIZATION PARAMETERS.

2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft

3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft



## GROUNDWATER SAMPLING FORM

|                                                                                      |                          |                                                                                                                 |
|--------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>PROJECT:</b> Former General Latex and Chemical Company<br>Spring 2011 Field Event |                          | <b>WELL ID:</b> MW-18                                                                                           |
|                                                                                      |                          | <b>DATE/TIME:</b> 04/27/11, 1435                                                                                |
| <b>Sampler(s):</b><br>D. Tecle/0.0                                                   | <b>Well Diameter:</b> 2" | <b>Weather Conditions:</b> partly cloudy                                                                        |
|                                                                                      | <b>PID Reading:</b> 0.0  | <b>Purge Method:</b><br>(Circle One) Low Flow <input checked="" type="radio"/> Volumetric <input type="radio"/> |

## SECTION 1: Purge Volume Information

(1) TD = Total Depth of Well (ft): 34.50' (2) DTW = Depth to Water (ft): 17.70

## SECTION 2: For Volumetric Sampling Only

(3) Height of Water in Well = TD - DTW = [(1)-(2)]: — (4) One Purge Volume<sup>2,3</sup>: —

## SECTION 3: Field Parameter Data

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | ORP               | Turbidity | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------------|-------------------|-----------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L                  | mV                | NTUs      | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | -190.0 - 240.0 mV | —         | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   |      | +/- 0.1         | +/- 3%                | +/- 0.3 mg/L          | +/- 10 mV         | <50       | +/- 0.2         |
| First Water      | 17.89 | 1440 | 7.31            | 1.687                 | 2.91                  | -67.8             | 240.4     | 15.80°          |
| 1                | 17.80 | 1445 | 7.19            | 1.663                 | 1.97                  | -84.1             | 188.3     | 16.39°          |
| 2                | 17.82 | 1450 | 7.15            | 1.663                 | 2.29                  | -85.7             | 116.1     | 16.57           |
| 3                | 17.83 | 1455 | 7.14            | 1.658                 | 2.35                  | -84.9             | 75.6      | 16.55           |
| 4                | 17.82 | 1500 | 7.15            | 1.657                 | 2.29                  | -84.7             | 68.4      | 16.67           |
| 5                | 17.81 | 1505 | 7.15            | 1.656                 | 2.15                  | -82.1             | 35.2      | 16.64           |
| 6                |       |      |                 |                       |                       |                   |           |                 |

Stabilization Parameters Used (min. three):

(pH)

Sp. Cond.

(DO)

(ORP)

## SECTION 4: Equipment and Method Information

Purging Equipment: peristaltic pump

Purge/Flow Rate: ~100 ml/min

Total Volume Purged: ~1 gallon

Field Parameter Instruments: YSI, Turbidity meter, water level meter.

## SECTION 5: Sample Information

| Samples         | ID                  | Time | VOCs | Other | Other |
|-----------------|---------------------|------|------|-------|-------|
| Parent          | MW18 GW 3035-042711 | 1510 | X    |       |       |
| Duplicate       |                     |      |      |       |       |
| MS/MSD          |                     |      |      |       |       |
| Equipment Blank |                     |      |      |       |       |

REMARKS:

## NOTES:

1 - DENOTES STABILIZATION PARAMETERS.

2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft

3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft



# GROUNDWATER SAMPLING FORM

|                                                                                      |                                                              |                                  |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------|
| <b>PROJECT:</b> Former General Latex and Chemical Company<br>Spring 2011 Field Event |                                                              | <b>WELL ID:</b> MW-19            |
| <b>Sampler(s):</b> D. Tacle / 0.0                                                    |                                                              | <b>DATE/TIME:</b> 04/28/11, 1255 |
| <b>Well Diameter:</b> 2"                                                             | <b>Weather Conditions:</b> Windy, Cold                       |                                  |
| <b>PID Reading:</b> 0.0                                                              | <b>Purge Method:</b> (Circle One) <u>Low Flow</u> Volumetric |                                  |

## SECTION 1: Purge Volume Information

|                                                  |                                              |
|--------------------------------------------------|----------------------------------------------|
| <b>(1) TD = Total Depth of Well (ft):</b> 35.40' | <b>(2) DTW = Depth to Water (ft):</b> 21.07' |
|--------------------------------------------------|----------------------------------------------|

## SECTION 2: For Volumetric Sampling Only

|                                                              |                                              |
|--------------------------------------------------------------|----------------------------------------------|
| <b>(3) Height of Water in Well = TD - DTW = [(1)-(2)]:</b> — | <b>(4) One Purge Volume<sup>2,3</sup>:</b> — |
|--------------------------------------------------------------|----------------------------------------------|

## SECTION 3: Field Parameter Data

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | ORP               | Turbidity | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------------|-------------------|-----------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L                  | mV                | NTUs      | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | -190.0 - 240.0 mV | —         | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   |      | +/- 0.1         | +/- 3%                | +/- 0.3 mg/L          | +/- 10 mV         | <50       | +/- 0.2         |
| First Water      | 21.10 | 1300 | 7.13            | 2.290                 | 7.38                  | -4.2              | 1.8       | 14.27           |
| 1                | 21.09 | 1305 | 6.70            | 2.531                 | 7.98                  | -10.3             | 1.1       | 13.36           |
| 2                | 21.10 | 1310 | 6.67            | 3.342                 | 7.77                  | -11.8             | 1.8       | 13.32           |
| 3                | 21.10 | 1315 | 6.66            | 3.621                 | 7.38                  | -13.3             | 3.1       | 13.39           |
| 4                | 21.10 | 1320 | 6.67            | 3.641                 | 6.47                  | -13.0             | 1.1       | 13.46           |
| 5                | 21.10 | 1325 | 6.66            | 3.649                 | 6.09                  | -12.3             | 1.0       | 13.69           |
| 6                |       |      |                 |                       |                       |                   |           |                 |

Stabilization Parameters Used (min. three): pH Sp. Cond. DO ORP

## SECTION 4: Equipment and Method Information

Purging Equipment: Peristaltic pump

Purge/Flow Rate: ~150 mL/min Total Volume Purged: ~1.5 gallons

Field Parameter Instruments: YSI, Turbidity meter, water level meter

## SECTION 5: Sample Information

| Samples         | ID                | Time | VOCs | Other | Other |
|-----------------|-------------------|------|------|-------|-------|
| Parent          | MW19GW1828-042811 | 1330 | X    |       |       |
| Duplicate       |                   |      |      |       |       |
| MS/MSD          |                   |      |      |       |       |
| Equipment Blank |                   |      |      |       |       |

## REMARKS:

## NOTES:

1 - DENOTES STABILIZATION PARAMETERS.

2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft

3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft



## GROUNDWATER SAMPLING FORM

|                                                                               |                                                |                           |
|-------------------------------------------------------------------------------|------------------------------------------------|---------------------------|
| PROJECT: Former General Latex and Chemical Company<br>Spring 2011 Field Event |                                                | WELL ID: MW-20            |
| Sampler(s): D. Tede / 0.0                                                     |                                                | DATE/TIME: 04/28/11, 0750 |
| Well Diameter: 2"                                                             | Weather Conditions: cloudy and wind            |                           |
| PID Reading: 0.0                                                              | Purge Method: (Circle One) Low Flow Volumetric |                           |

## SECTION 1: Purge Volume Information

(1) TD = Total Depth of Well (ft): 33.11' (2) DTW = Depth to Water (ft): 19.32'

## SECTION 2: For Volumetric Sampling Only

(3) Height of Water in Well = TD - DTW = [(1)-(2)]: — (4) One Purge Volume<sup>2,3</sup>: ✓

## SECTION 3: Field Parameter Data

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | ORP               | Turbidity | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------------|-------------------|-----------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L                  | mV                | NTUs      | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | -190.0 - 240.0 mV | —         | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   |      | +/- 0.1         | +/- 3%                | +/- 0.3 mg/L          | +/- 10 mV         | <50       | +/- 0.2         |
| First Water      | 19.35 | 0800 | 7.72            | 1.312                 | 2.03                  | -58.5             | 3.0       | 12.15           |
| 1                | 19.35 | 0805 | 7.34            | 1.309                 | 1.26                  | -80.5             | 2.9       | 12.15           |
| 2                | 19.34 | 0810 | 7.28            | 1.313                 | 1.20                  | -85.2             | 1.4       | 12.12           |
| 3                | 19.35 | 0815 | 7.21            | 1.318                 | 1.05                  | -87.1             | 0.5       | 12.10           |
| 4                | 19.35 | 0820 | 7.22            | 1.317                 | 0.95                  | -89.7             | 1         | 12.10           |
| 5                | 19.34 | 0825 | 7.21            | 1.322                 | 0.93                  | -89.4             | 1.2       | 12.15           |
| 6                |       |      |                 |                       |                       |                   |           |                 |

Stabilization Parameters Used (min. three):

pH

Sp. Cond.

DO

ORP

## SECTION 4: Equipment and Method Information

Purging Equipment: Peristaltic pump

Purge/Flow Rate: ~ 150 ml/min

Total Volume Purged: ~ 1.5 gallons

Field Parameter Instruments: YSI, Turbidity meter, Water level meter

## SECTION 5: Sample Information

| Samples         | ID                  | Time | VOCs | Other | Other |
|-----------------|---------------------|------|------|-------|-------|
| Parent          | MW 20 GW2333-042811 | 0825 | X    |       |       |
| Duplicate       | FD 02-042811        | 0825 | X    |       |       |
| MS/MSD          |                     |      |      |       |       |
| Equipment Blank |                     |      |      |       |       |

## REMARKS:

## NOTES:

1 - DENOTES STABILIZATION PARAMETERS.

2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft

3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft



## GROUNDWATER SAMPLING FORM

|                                                                                      |                          |                                                          |
|--------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------|
| <b>PROJECT:</b> Former General Latex and Chemical Company<br>Spring 2011 Field Event |                          | <b>WELL ID:</b> MW-21                                    |
|                                                                                      |                          | <b>DATE/TIME:</b> 04/27/11, 1710                         |
| <b>Sampler(s):</b><br>D: Tecle / 0.0                                                 | <b>Well Diameter:</b> 2" | <b>Weather Conditions:</b> Cloudy                        |
|                                                                                      | <b>PID Reading:</b> 0.0  | <b>Purge Method:</b><br>(Circle One) Low Flow Volumetric |

## SECTION 1: Purge Volume Information

(1) TD = Total Depth of Well (ft): 34.08' (2) DTW = Depth to Water (ft): 19.56'

## SECTION 2: For Volumetric Sampling Only

(3) Height of Water in Well = TD - DTW = [(1)-(2)]: — (4) One Purge Volume<sup>2,3</sup>: —

## SECTION 3: Field Parameter Data

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | ORP               | Turbidity | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------------|-------------------|-----------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L                  | mV                | NTUs      | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300 - 1.300 mS/cm   | See Note <sup>4</sup> | -190.0 - 240.0 mV | —         | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   |      | +/- 0.1         | +/- 3%                | +/- 0.3 mg/L          | +/- 10 mV         | <50       | +/- 0.2         |
| First Water      | 19.57 | 1715 | 7.26            | 1.331                 | 1.65                  | -102.3            | 79.7      | 13.82           |
| 1                | 19.57 | 1720 | 7.29            | 1.310                 | 0.73                  | -124.9            | 29.6      | 13.89           |
| 2                | 19.58 | 1725 | 7.30            | 1.310                 | 0.70                  | -127.3            | 16.6      | 13.84           |
| 3                | 19.59 | 1730 | 7.31            | 1.308                 | 0.68                  | -128.2            | 12.9      | 13.81           |
| 4                |       |      |                 |                       |                       |                   |           |                 |
| 5                |       |      |                 |                       |                       |                   |           |                 |
| 6                | 19.58 | 1735 | 7.33            | 1.306                 | 0.67                  | -126.9            | 9.6       | 13.85           |

Stabilization Parameters Used (min. three): (pH) Sp. Cond. (DO) (ORP)

## SECTION 4: Equipment and Method Information

Purging Equipment: Peristaltic pump

Purge/Flow Rate: ~150 ml/min Total Volume Purged: ~1.5 gallons

Field Parameter Instruments: YSI, water level meter, turbidity meter.

## SECTION 5: Sample Information

| Samples         | ID                | Time | VOCs | Other | Other |
|-----------------|-------------------|------|------|-------|-------|
| Parent          | MW21GW2434-042711 | 1740 | X    |       |       |
| Duplicate       | FD01-042711       | 1740 | X    |       |       |
| MS/MSD          |                   |      |      |       |       |
| Equipment Blank |                   |      |      |       |       |

## REMARKS:

## NOTES:

1 - DENOTES STABILIZATION PARAMETERS.

2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft

3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft



# GROUNDWATER SAMPLING FORM

|                                                                                      |                                                          |                                  |
|--------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------|
| <b>PROJECT:</b> Former General Latex and Chemical Company<br>Spring 2011 Field Event |                                                          | <b>WELL ID:</b> MW-22            |
| <b>Sampler(s):</b> D. Tede                                                           |                                                          | <b>DATE/TIME:</b> 04/28/11, 0940 |
| <b>Well Diameter:</b> 2"                                                             | <b>Weather Conditions:</b> Windy / Sunny                 |                                  |
| <b>PID Reading:</b> 0.0                                                              | <b>Purge Method:</b> Low Flow Volumetric<br>(Circle One) |                                  |

## SECTION 1: Purge Volume Information

|                                                 |                                             |
|-------------------------------------------------|---------------------------------------------|
| <b>(1) TD = Total Depth of Well (ft):</b> 34.91 | <b>(2) DTW = Depth to Water (ft):</b> 16.31 |
|-------------------------------------------------|---------------------------------------------|

## SECTION 2: For Volumetric Sampling Only

|                                                              |                                              |
|--------------------------------------------------------------|----------------------------------------------|
| <b>(3) Height of Water in Well = TD - DTW = [(1)-(2)]:</b> — | <b>(4) One Purge Volume<sup>2,3</sup>:</b> — |
|--------------------------------------------------------------|----------------------------------------------|

## SECTION 3: Field Parameter Data

| Parameter        | DTW     | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | ORP               | Turbidity | Temperature     |
|------------------|---------|------|-----------------|-----------------------|-----------------------|-------------------|-----------|-----------------|
| Parameter Units  | ft      |      | SU              | mS/cm                 | mg/L                  | mV                | NTUs      | C°              |
| Acceptable Range | —       | —    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | -190.0 - 240.0 mV | —         | 4.00 - 20.00 C° |
| Tolerance Levels | ±0.4    |      | ±0.1            | ±1-3%                 | ±0.3 mg/L             | ±10 mV            | <50       | ±0.2            |
| First Water      | 16.2945 | 0945 | 7.39            | 1.520                 | 3.30                  | -7.8              | 8.1       | 13.05           |
| 1                | 16.35   | 0950 | 7.22            | 1.500                 | 1.05                  | -29.8             | 7.5       | 13.10           |
| 2                | 16.36   | 0955 | 7.08            | 1.500                 | 0.73                  | -50.8             | 8.0       | 12.94           |
| 3                | 16.35   | 1000 | 7.04            | 1.500                 | 0.68                  | -63.2             | 6.2       | 13.24           |
| 4                | 16.35   | 1005 | 7.05            | 1.496                 | 0.68                  | -67.2             | 5.1       | 13.42           |
| 5                | 16.34   | 1010 | 7.04            | 1.495                 | 0.70                  | -70.1             | 4.2       | 13.47           |
| 6                | 16.33   | 1015 | 7.05            | 1.493                 | 0.69                  | -77.1             | 4.1       | 13.56           |

Stabilization Parameters Used (min. three): pH Sp. Cond. DO ORP

## SECTION 4: Equipment and Method Information

Purging Equipment: peristaltic pump

Purge/Flow Rate: ~150 ml/min Total Volume Purged: ~15 gallons

Field Parameter Instruments: YSI, Turbidity meter, water level meter

## SECTION 5: Sample Information

| Samples         | ID                 | Time | VOCs | Other | Other |
|-----------------|--------------------|------|------|-------|-------|
| Parent          | MW22 GW2535-042811 | 1015 | X    | —     | —     |
| Duplicate       | —                  | —    | —    | —     | —     |
| MS/MSD          | —                  | —    | —    | —     | —     |
| Equipment Blank | —                  | —    | —    | —     | —     |

## REMARKS:

## NOTES:

- 1 - DENOTES STABILIZATION PARAMETERS.
- 2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft
- 3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft



# GROUNDWATER SAMPLING FORM

|                                                                                      |                          |                                                                                                                 |
|--------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>PROJECT:</b> Former General Latex and Chemical Company<br>Spring 2011 Field Event |                          | <b>WELL ID:</b> MW-23                                                                                           |
|                                                                                      |                          | <b>DATE/TIME:</b> 04/28/11, 0850                                                                                |
| <b>Sampler(s):</b><br>D. Tede/0.0                                                    | <b>Well Diameter:</b> 2" | <b>Weather Conditions:</b> Chilly & cloudy                                                                      |
|                                                                                      | <b>PID Reading:</b> 0.0  | <b>Purge Method:</b><br>(Circle One) Low Flow <input checked="" type="radio"/> Volumetric <input type="radio"/> |

## SECTION 1: Purge Volume Information

(1) TD = Total Depth of Well (ft): 40.0' (2) DTW = Depth to Water (ft): 16.29'

## SECTION 2: For Volumetric Sampling Only

(3) Height of Water in Well = TD - DTW = [(1)-(2)]: — (4) One Purge Volume<sup>2,3</sup>: —

## SECTION 3: Field Parameter Data

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | ORP               | Turbidity | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------------|-------------------|-----------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L                  | mV                | NTUs      | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | -190.0 - 240.0 mV | —         | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   |      | +/- 0.1         | +/- 3%                | +/- 0.3 mg/L          | +/- 10 mV         | <50       | +/- 0.2         |
| First Water      | 16.30 | 0900 | 7.38            | 1.634                 | 2.02                  | -32.3             | 21.0      | 12.69           |
| 1                | 16.29 | 0905 | 7.20            | 1.639                 | 1.20                  | -59.9             | 12.5      | 12.53           |
| 2                | 16.31 | 0910 | 7.17            | 1.643                 | 0.96                  | -67.8             | 4.6       | 12.53           |
| 3                | 16.30 | 0915 | 7.15            | 1.644                 | 0.94                  | -75.8             | 1.5       | 12.67           |
| 4                | 16.31 | 0920 | 7.14            | 1.645                 | 0.92                  | -78.1             | 1.1       | 12.68           |
| 5                | 16.30 | 0925 | 7.13            | 1.646                 | 1.00                  | -82.5             | 1.2       | 12.78           |
| 6                |       |      |                 |                       |                       |                   |           |                 |

Stabilization Parameters Used (min. three): ☒ pH ☒ Sp. Cond. ☒ DO ☐ ORP

## SECTION 4: Equipment and Method Information

Purging Equipment: Peristaltic pump

Purge/Flow Rate: ~ 150 mL/min Total Volume Purged: ~ 1 gallon

Field Parameter Instruments: YSI, Turbidity meter, Water level meter

## SECTION 5: Sample Information

| Samples         | ID                 | Time | VOCs | Other | Other |
|-----------------|--------------------|------|------|-------|-------|
| Parent          | MW23GW3040- 042811 | 0925 | X    | —     | —     |
| Duplicate       |                    |      |      |       |       |
| MS/MSD          |                    |      |      |       |       |
| Equipment Blank |                    |      |      |       |       |

## REMARKS:

## NOTES:

1 - DENOTES STABILIZATION PARAMETERS.

2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft

3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft



## GROUNDWATER SAMPLING FORM

|                                                                                      |  |                            |  |                                                                 |  |  |  |
|--------------------------------------------------------------------------------------|--|----------------------------|--|-----------------------------------------------------------------|--|--|--|
| <b>PROJECT:</b> Former General Latex and Chemical Company<br>Spring 2011 Field Event |  |                            |  | <b>WELL ID:</b> BMW                                             |  |  |  |
|                                                                                      |  |                            |  | <b>DATE/TIME:</b> 04/27/11, 1515                                |  |  |  |
| <b>Sampler(s):</b><br>D. Tede / 0-0                                                  |  | <b>Well Diameter:</b> 2"   |  | <b>Weather Conditions:</b> Partly cloudy, windy                 |  |  |  |
|                                                                                      |  | <b>PID Reading:</b> 2' 0-0 |  | <b>Purge Method:</b><br>(Circle One) <u>Low Flow</u> Volumetric |  |  |  |

**SECTION 1: Purge Volume Information**

|                                                 |                                             |
|-------------------------------------------------|---------------------------------------------|
| <b>(1) TD = Total Depth of Well (ft):</b> 22.3' | <b>(2) DTW = Depth to Water (ft):</b> 16.59 |
|-------------------------------------------------|---------------------------------------------|

**SECTION 2: For Volumetric Sampling Only**

|                                                              |                                              |
|--------------------------------------------------------------|----------------------------------------------|
| <b>(3) Height of Water in Well = TD - DTW = [(1)-(2)]:</b> — | <b>(4) One Purge Volume<sup>2,3</sup>:</b> — |
|--------------------------------------------------------------|----------------------------------------------|

**SECTION 3: Field Parameter Data**

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | ORP               | Turbidity | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------------|-------------------|-----------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L                  | mV                | NTUs      | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | -190.0 - 240.0 mV | —         | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   |      | +/- 0.1         | +/- 3%                | +/- 0.3 mg/L          | +/- 10 mV         | <50       | +/- 0.2         |
| First Water      | 16.70 | 1530 | 7.45            | 1.332                 | 2.57                  | -16.7             | 20.6      | 14.60           |
| 1                | 16.72 | 1535 | 7.30            | 1.313                 | 1.10                  | -35.9             | 23.0      | 15.45           |
| 2                | 16.73 | 1540 | 7.25            | 1.312                 | 1.15                  | -49.1             | 13.6      | 15.67           |
| 3                | 16.71 | 1545 | 7.25            | 1.311                 | 1.22                  | -55.2             | 7.6       | 15.68           |
| 4                | 16.70 | 1550 | 7.23            | 1.312                 | 1.24                  | -59.2             | 4.5       | 15.71           |
| 5                |       |      |                 |                       |                       |                   |           |                 |
| 6                | 16.71 | 1555 | 7.22            | 1.312                 | 1.20                  | -62.1             | 1.9       | 15.74           |

**Stabilization Parameters Used (min. three):** pH Sp. Cond. DO ORP

**SECTION 4: Equipment and Method Information**

**Purging Equipment:** Peristaltic pump

**Purge/Flow Rate:** ~ 150 ml/min **Total Volume Purged:** ~ 1.5 gallons

**Field Parameter Instruments:** YSI, Turbidity meter, water level

**SECTION 5: Sample Information**

| Samples         | ID               | Time | VOCs | Other | Other |
|-----------------|------------------|------|------|-------|-------|
| Parent          | BMWGW1828-042711 | 1600 | X    |       |       |
| Duplicate       |                  |      |      |       |       |
| MS/MSD          |                  |      |      |       |       |
| Equipment Blank |                  |      |      |       |       |

**REMARKS:**

**NOTES:**

1 - DENOTES STABILIZATION PARAMETERS.

2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft

3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft



TABLE 1

Groundwater Level Measurements - Spring 2011

Former General Latex and Chemical Corporation, Ashland, Ohio

04/27/11

| Well ID | Screened Interval |    | Top of Casing (TOC)<br>Elevation | Measured Depth to<br>Water (feet bgs) DATE: 04/27/11 | Groundwater<br>Elevation (feet amsl) |
|---------|-------------------|----|----------------------------------|------------------------------------------------------|--------------------------------------|
| MW-1    | 17                | 27 | 1000.34                          | 14.84                                                |                                      |
| MW-2    | 13                | 23 | 998.71                           | 8.70                                                 |                                      |
| MW-3    | 16                | 36 | 1001.57                          | 19.73                                                |                                      |
| MW-4    | 7                 | 17 | 997.83                           | 0.2                                                  |                                      |
| MW-6    | 10                | 20 | 996.99                           | 14.69                                                |                                      |
| MW-7    | 20                | 30 | 1001.11                          | 19.32                                                |                                      |
| MW-8    | 3                 | 13 | 998.58                           | 2.2                                                  |                                      |
| MW-9    | 14                | 24 | 1000.92                          | 18.58                                                |                                      |
| MW-10   | 17                | 32 | 1003.30                          | 21.07                                                |                                      |
| MW-11   | 9                 | 19 | 1001.15                          | 4.86                                                 |                                      |
| MW-12   | 14                | 24 | 997.41                           | 8.45                                                 |                                      |
| MW-13D  | 14                | 24 | 997.76                           | 14.50                                                |                                      |
| MW-14D  | 42                | 52 | 999.22                           | 16.45                                                |                                      |
| BMW     | 18                | 28 | 999.21                           | 16.60                                                |                                      |
| MW-15   | 20                | 30 | 997.81                           | 15.95                                                |                                      |
| MW-16   | 10                | 20 | 997.94                           | 6.25                                                 |                                      |
| MW-17D  | 48                | 58 | 1000.31                          | 18.87                                                |                                      |
| MW-18   | 30                | 35 | 1000.55                          | 17.75                                                |                                      |
| MW-19   | 18                | 28 | 1002.76                          | 20.1                                                 |                                      |
| MW-20   | 23                | 33 | 1001.24                          | 19.20                                                |                                      |
| MW-21   | 24                | 34 | 1001.27                          | 19.54                                                |                                      |
| MW-22   | 25                | 35 | 997.49                           | 16.12                                                |                                      |
| MW-23   | 30                | 40 | 997.13                           | 16.08                                                |                                      |

Abbreviations

ft btoc - feet below top of casing



| <b>PROJECT:</b> Former General Latex and Chemical Corporation<br>Facility- Fall 2011             |                    |      |                          |                                              | <b>WELL ID:</b> MW-3                                     |           |                   |                 |
|--------------------------------------------------------------------------------------------------|--------------------|------|--------------------------|----------------------------------------------|----------------------------------------------------------|-----------|-------------------|-----------------|
|                                                                                                  |                    |      |                          |                                              | <b>DATE/TIME:</b> 10/25/11, 12:00                        |           |                   |                 |
| <b>Sampler(s):</b><br>D. Tede/M. Gale                                                            |                    |      | <b>Well Diameter:</b> 2" |                                              | <b>Weather Conditions:</b> Sunny, 53°                    |           |                   |                 |
|                                                                                                  |                    |      | <b>PID Reading:</b> 0.0  |                                              | <b>Purge Method:</b> Low Flow Volumetric<br>(Circle One) |           |                   |                 |
| <b>SECTION 1: Purge Volume Information</b> 29.10 ft                                              |                    |      |                          |                                              |                                                          |           |                   |                 |
| <b>(1) TD = Total Depth of Well (ft):</b> 29.10                                                  |                    |      |                          | <b>(2) DTW = Depth to Water (ft):</b> 21.77  |                                                          |           |                   |                 |
| <b>SECTION 2: For Volumetric Sampling Only</b>                                                   |                    |      |                          |                                              |                                                          |           |                   |                 |
| <b>(3) Height of Water in Well = TD - DTW = [(1)-(2)]:</b> —                                     |                    |      |                          | <b>(4) One Purge Volume<sup>2,3</sup>:</b> — |                                                          |           |                   |                 |
| <b>SECTION 3: Field Parameter Data</b>                                                           |                    |      |                          |                                              |                                                          |           |                   |                 |
| Parameter                                                                                        | DTW                | Time | pH <sup>1</sup>          | Sp Cond. <sup>1</sup>                        | DO <sup>1</sup>                                          | Turbidity | ORP               | Temperature     |
| Parameter Units                                                                                  | ft                 |      | SU                       | mS/cm                                        | mg/L                                                     | NTUs      | mV                | C°              |
| Acceptable Range                                                                                 | —                  | —    | 6.00 - 8.00              | 0.300 - 1.300 mS/cm                          | See Note 4                                               | —         | -190.0 - 240.0 mV | 4.00 - 20.00 C° |
| Tolerance Levels                                                                                 | 0.4                | —    | +/- 0.1                  | +/- 3%                                       | +/- 10%                                                  | <20       | +/- 10 mV         | +/- 0.2         |
| First Water                                                                                      | 21.78              | 1210 | 6.51                     | 3.172                                        | 1.02                                                     | 71000     | 19.9              | 15.93           |
| 1                                                                                                | 21.78              | 1215 | 6.71                     | 3.478                                        | 3.84                                                     | 55.9      | -17.2             | 15.09           |
| 2                                                                                                | 21.78              | 1220 | 6.58                     | 3.501                                        | 0.78                                                     | 22        | 4.1               | 14.98           |
| 3                                                                                                | 21.78              | 1225 | 6.59                     | 3.487                                        | 0.69                                                     | 19.6      | 11.0              | 15.08           |
| 4                                                                                                | 21.78              | 1230 | 6.60                     | 3.458                                        | 0.64                                                     | 13.5      | 16.4              | 14.98           |
| 5                                                                                                | 21.78              | 1235 | 6.60                     | 3.456                                        | 0.63                                                     | 11.8      | 18.3              | 15.01           |
| 6                                                                                                | 21.78              | 1240 | 6.60                     | 3.448                                        | 0.61                                                     | 9.8       | 19.4              | 15.05           |
| <b>SECTION 4: Equipment and Method Information</b>                                               |                    |      |                          |                                              |                                                          |           |                   |                 |
| <b>Purging Equipment:</b> Peristaltic Pump                                                       |                    |      |                          |                                              |                                                          |           |                   |                 |
| <b>Purge/Flow Rate:</b> ~100 ml/min                                                              |                    |      |                          | <b>Total Volume Purged:</b> ~2 gallons       |                                                          |           |                   |                 |
| <b>Field Parameter Instruments:</b> YSI, Turbidity meter                                         |                    |      |                          |                                              |                                                          |           |                   |                 |
| <b>SECTION 5: Sample Information</b>                                                             |                    |      |                          |                                              |                                                          |           |                   |                 |
| Samples                                                                                          | ID                 | Time | VOCs                     | Other                                        | Other                                                    | Other     |                   |                 |
| Parent                                                                                           | MW03 GW1626-102511 | 1240 | X                        |                                              |                                                          |           |                   |                 |
| Duplicate                                                                                        |                    |      |                          |                                              |                                                          |           |                   |                 |
| MS/MSD                                                                                           |                    |      |                          |                                              |                                                          |           |                   |                 |
| Equipment Blank                                                                                  |                    |      |                          |                                              |                                                          |           |                   |                 |
| <b>REMARKS:</b>                                                                                  |                    |      |                          |                                              |                                                          |           |                   |                 |
| <b>NOTES:</b>                                                                                    |                    |      |                          |                                              |                                                          |           |                   |                 |
| 1 - DENOTES STABILIZATION PARAMETERS.                                                            |                    |      |                          |                                              |                                                          |           |                   |                 |
| 2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft    |                    |      |                          |                                              |                                                          |           |                   |                 |
| 3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft       |                    |      |                          |                                              |                                                          |           |                   |                 |
| 4 - Varies from 0.0 to 9.5 at water temperature 15-25°C; 0.0 to 14.5 at water temperature 1-14°C |                    |      |                          |                                              |                                                          |           |                   |                 |
| - milliliters per minute = gallons per minute/0.0002641                                          |                    |      |                          |                                              |                                                          |           |                   |                 |



|                                                                                   |                          |                                                          |
|-----------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------|
| <b>PROJECT:</b> Former General Latex and Chemical Corporation Facility- Fall 2011 |                          | <b>WELL ID:</b> MW-7                                     |
|                                                                                   |                          | <b>DATE/TIME:</b> 10/24/11, 1545                         |
| <b>Sampler(s):</b><br>D. Teale / M. Gule                                          | <b>Well Diameter:</b> 2" | <b>Weather Conditions:</b> Sunny, 56°                    |
|                                                                                   | <b>PID Reading:</b> 0.0  | <b>Purge Method:</b> Low Flow Volumetric<br>(Circle One) |

**SECTION 1: Purge Volume Information**

|                                                 |                                             |
|-------------------------------------------------|---------------------------------------------|
| <b>(1) TD = Total Depth of Well (ft):</b> 28.30 | <b>(2) DTW = Depth to Water (ft):</b> 21.35 |
|-------------------------------------------------|---------------------------------------------|

**SECTION 2: For Volumetric Sampling Only**

|                                                              |                                              |
|--------------------------------------------------------------|----------------------------------------------|
| <b>(3) Height of Water in Well = TD - DTW = [(1)-(2)]:</b> — | <b>(4) One Purge Volume<sup>2,3</sup>:</b> — |
|--------------------------------------------------------------|----------------------------------------------|

**SECTION 3: Field Parameter Data**

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | Turbidity | ORP               | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------------|-----------|-------------------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L                  | NTUs      | mV                | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | —         | -190.0 - 240.0 mV | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   |      | +/- 0.1         | +/- 3%                | +/- 10%               | <20       | +/- 10 mV         | +/- 0.2         |
| First Water      | 21.36 | 1555 | 7.05            | 1.347                 | 4.00                  | 432       | -54.4             | 15.01           |
| 1                | 21.35 | 1600 | 7.01            | 1.320                 | 0.93                  | 71000     | -74.4             | 14.40           |
| 2                | 21.35 | 1605 | 7.01            | 1.321                 | 0.70                  | 71000     | -80.4             | 14.48           |
| 3                | 21.35 | 1610 | 7.01            | 1.324                 | 0.63                  | 71000     | -82.9             | 14.45           |
| 4                | 21.35 | 1615 | 7.02            | 1.336                 | 0.51                  | 538       | -87.3             | 14.47           |
| 5                | 21.35 | 1625 | 7.03            | 1.339                 | 0.45                  | 336       | -90.5             | 14.69           |
| 6                | 21.35 | 1630 | 7.04            | 1.340                 | 0.46                  | 268       | -92.5             | 14.63           |

**SECTION 4: Equipment and Method Information**

|                                                          |
|----------------------------------------------------------|
| <b>Purging Equipment:</b> Peristaltic Pump               |
| <b>Purge/Flow Rate:</b> ~120 ml/min                      |
| <b>Total Volume Purged:</b> ~                            |
| <b>Field Parameter Instruments:</b> YSI, Turbidity Meter |

**SECTION 5: Sample Information**

| Samples         | ID                     | Time | VOCs | Other | Other |
|-----------------|------------------------|------|------|-------|-------|
| Parent          | MW07GW2030-102411      | 1640 | X    | —     | —     |
| Duplicate       |                        |      |      |       |       |
| MS/MSD          | MW07GW2030-102411-MS/D | 1640 | X    | —     | —     |
| Equipment Blank |                        |      |      |       |       |

| REMARKS: | DTW   | Time | pH   | Sp. cond | DO   | Turb | ORP   | Temp  |
|----------|-------|------|------|----------|------|------|-------|-------|
|          | 21.35 | 1635 | 7.04 | 1.351    | 0.42 | 266  | -93.7 | 14.57 |
|          | 21.35 | 1640 | 7.04 | 1.358    | 0.43 | 244  | -94.7 | 14.59 |

**NOTES:**

- 1 - DENOTES STABILIZATION PARAMETERS.
- 2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft
- 3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft
- 4 - Varies from 0.0 to 9.5 at water temperature 15-25C°; 0.0 to 14.5 at water temperature 1-14C°
- milliliters per minute = gallons per minute/0.0002641



| <b>PROJECT:</b> Former General Latex and Chemical Corporation<br>Facility - Fall 2011 |                   |                          |                 |                       | <b>WELL ID:</b> MW-09                                           |           |                   |                 |  |
|---------------------------------------------------------------------------------------|-------------------|--------------------------|-----------------|-----------------------|-----------------------------------------------------------------|-----------|-------------------|-----------------|--|
|                                                                                       |                   |                          |                 |                       | <b>DATE/TIME:</b> 10/25/11, 1350                                |           |                   |                 |  |
| <b>Sampler(s):</b><br>D. Tieda / M. Gale                                              |                   | <b>Well Diameter:</b> 2" |                 |                       | <b>Weather Conditions:</b> Sunny, 59°                           |           |                   |                 |  |
|                                                                                       |                   | <b>PID Reading:</b> 0.0  |                 |                       | <b>Purge Method:</b><br>(Circle One) <u>Low Flow</u> Volumetric |           |                   |                 |  |
| <b>SECTION 1: Purge Volume Information</b>                                            |                   |                          |                 |                       |                                                                 |           |                   |                 |  |
| <b>(1) TD = Total Depth of Well (ft):</b> 26.5                                        |                   |                          |                 |                       | <b>(2) DTW = Depth to Water (ft):</b> 20.59                     |           |                   |                 |  |
| <b>SECTION 2: For Volumetric Sampling Only</b>                                        |                   |                          |                 |                       |                                                                 |           |                   |                 |  |
| <b>(3) Height of Water in Well = TD - DTW = [(1)-(2)]:</b> —                          |                   |                          |                 |                       | <b>(4) One Purge Volume<sup>2,3</sup>:</b> —                    |           |                   |                 |  |
| <b>SECTION 3: Field Parameter Data</b>                                                |                   |                          |                 |                       |                                                                 |           |                   |                 |  |
| Parameter                                                                             | DTW               | Time                     | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>                                                 | Turbidity | ORP               | Temperature     |  |
| Parameter Units                                                                       | ft                |                          | SU              | mS/cm                 | mg/L                                                            | NTUs      | mV                | C°              |  |
| Acceptable Range                                                                      | —                 | —                        | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup>                                           | —         | -190.0 - 240.0 mV | 4.00 - 20.00 C° |  |
| Tolerance Levels                                                                      | 0.4               |                          | +/- 0.1         | +/- 3%                | +/- 10%                                                         | <20       | +/- 10 mV         | +/- 0.2         |  |
| First Water                                                                           | 20.59             | 1400                     | 7.00            | 2.986                 | 7.80                                                            | 113       | 87                | 17.92           |  |
| 1                                                                                     | 20.59             | 1405                     | 6.68            | 3.452                 | 1.34                                                            | 18.7      | 86.3              | 16.06           |  |
| 2                                                                                     | 20.59             | 1410                     | 6.69            | 3.468                 | 1.22                                                            | 8.68      | 85.8              | 16.16           |  |
| 3                                                                                     | 20.59             | 1415                     | 6.69            | 3.471                 | 1.12                                                            | 5.41      | 84.8              | 16.17           |  |
| 4                                                                                     | 20.59             | 1420                     | 6.69            | 3.475                 | 1.16                                                            | 3.01      | 85                | 16.22           |  |
| 5                                                                                     |                   |                          |                 |                       |                                                                 |           |                   |                 |  |
| 6                                                                                     |                   |                          |                 |                       |                                                                 |           |                   |                 |  |
| <b>SECTION 4: Equipment and Method Information</b>                                    |                   |                          |                 |                       |                                                                 |           |                   |                 |  |
| <b>Purging Equipment:</b> Peristaltic pump                                            |                   |                          |                 |                       |                                                                 |           |                   |                 |  |
| <b>Purge/Flow Rate:</b> ~100 ml/min                                                   |                   |                          |                 |                       | <b>Total Volume Purged:</b> ~1.5 gallons                        |           |                   |                 |  |
| <b>Field Parameter Instruments:</b> YSI, Turbidity meter                              |                   |                          |                 |                       |                                                                 |           |                   |                 |  |
| <b>SECTION 5: Sample Information</b>                                                  |                   |                          |                 |                       |                                                                 |           |                   |                 |  |
| Samples                                                                               | ID                | Time                     | VOCs            | Other                 | Other                                                           |           |                   |                 |  |
| Parent                                                                                | MW09GW1424-102511 | 1420                     | X               |                       |                                                                 |           |                   |                 |  |
| Duplicate                                                                             | FD02-102511       | 1420                     | X               |                       |                                                                 |           |                   |                 |  |
| MS/MSD                                                                                |                   |                          |                 |                       |                                                                 |           |                   |                 |  |
| Equipment Blank                                                                       |                   |                          |                 |                       |                                                                 |           |                   |                 |  |
| <b>REMARKS:</b>                                                                       |                   |                          |                 |                       |                                                                 |           |                   |                 |  |
| <b>NOTES:</b>                                                                         |                   |                          |                 |                       |                                                                 |           |                   |                 |  |

1 - DENOTES STABILIZATION PARAMETERS.

2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft

3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft

4 - Varies from 0.0 to 9.5 at water temperature 15-25C°; 0.0 to 14.5 at water temperature 1-14C°

- milliliters per minute = gallons per minute/0.0002641



|                                                                               |                   |                                                          |
|-------------------------------------------------------------------------------|-------------------|----------------------------------------------------------|
| PROJECT: Former General Latex and Chemical Corporation<br>Facility- Fall 2011 |                   | WELL ID: MW-10                                           |
|                                                                               |                   | DATE/TIME: 10/25/11, 1245                                |
| Sampler(s):<br>D. Tecle/M. Gale                                               | Well Diameter: 2" | Weather Conditions: Sunny, 56°                           |
|                                                                               | PID Reading: 0.0  | Purge Method: <u>Low Flow</u> Volumetric<br>(Circle One) |

### SECTION 1: Purge Volume Information

(1) TD = Total Depth of Well (ft): 35.24      (2) DTW = Depth to Water (ft): 23.06

### SECTION 2: For Volumetric Sampling Only

(3) Height of Water in Well = TD - DTW = [(1)-(2)]: —      (4) One Purge Volume<sup>2,3</sup>: —

### SECTION 3: Field Parameter Data

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | Turbidity | ORP               | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------------|-----------|-------------------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L                  | NTUs      | mV                | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300 - 1.300 mS/cm   | See Note <sup>4</sup> | —         | -190.0 - 240.0 mV | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   | —    | +/- 0.1         | +/- 3%                | +/- 10%               | <20       | +/- 10 mV         | +/- 0.2         |
| First Water      | 23.06 | 1250 | 6.90            | 3.064                 | 2.55                  | 16.8      | 29.5              | 14.97           |
| 1                | 23.08 | 1255 | 6.80            | 3.043                 | 1.06                  | 6.7       | 38.7              | 14.84           |
| 2                | 23.08 | 1300 | 6.83            | 3.042                 | 0.76                  | 5.01      | 43.9              | 14.81           |
| 3                | 23.09 | 1305 | 6.82            | 3.031                 | 0.64                  | 4.47      | 48.8              | 14.72           |
| 4                | 23.08 | 1310 | 6.81            | 3.019                 | 0.59                  | 2.40      | 51.3              | 14.68           |
| 5                | 23.08 | 1315 | 6.80            | 3.001                 | 0.58                  | 2.74      | 53.8              | 14.65           |
| 6                |       |      |                 |                       |                       |           |                   |                 |

### SECTION 4: Equipment and Method Information

Purging Equipment: Peristaltic Pump  
Purge/Flow Rate: ~100 mL/min      Total Volume Purged: ~1.5 gallons  
Field Parameter Instruments: YSI, Turbiditymeter

### SECTION 5: Sample Information

| Samples         | ID                | Time | VOCs | Other | Other |
|-----------------|-------------------|------|------|-------|-------|
| Parent          | MW10GW1732-102511 | 1315 | X    | —     | —     |
| Duplicate       | —                 | —    | —    | —     | —     |
| MS/MSD          | —                 | —    | —    | —     | —     |
| Equipment Blank | —                 | —    | —    | —     | —     |

### REMARKS:

### NOTES:

- 1 - DENOTES STABILIZATION PARAMETERS.
- 2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft
- 3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft
- 4 - Varies from 0.0 to 9.5 at water temperature 15-25C°; 0.0 to 14.5 at water temperature 1-14C°  
- milliliters per minute = gallons per minute/0.0002641



|                                                                                   |                          |                                                                   |
|-----------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------|
| <b>PROJECT:</b> Former General Latex and Chemical Corporation Facility- Fall 2011 |                          | <b>WELL ID:</b> MW-12                                             |
|                                                                                   |                          | <b>DATE/TIME:</b> 10/25/11, 1030                                  |
| <b>Sampler(s):</b><br>D. Tectle/M. Cade                                           | <b>Well Diameter:</b> 2" | <b>Weather Conditions:</b> Sunny, 50                              |
|                                                                                   | <b>PID Reading:</b> 0.0  | <b>Purge Method:</b><br>(Circle One) Low Flow <u>9</u> Volumetric |

### SECTION 1: Purge Volume Information

(1) TD = Total Depth of Well (ft): 24.33 (2) DTW = Depth to Water (ft): 9.83

### SECTION 2: For Volumetric Sampling Only

(3) Height of Water in Well = TD - DTW = [(1)-(2)]: 14.5 (4) One Purge Volume<sup>2,3</sup>: 2.26 1.84

### SECTION 3: Field Parameter Data

| Parameter        | DTW   | Time | pH <sup>1</sup>                       | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | Turbidity | ORP               | Temperature     |
|------------------|-------|------|---------------------------------------|-----------------------|-----------------------|-----------|-------------------|-----------------|
| Parameter Units  | ft    |      | SU                                    | mS/cm                 | mg/L                  | NTUs      | mV                | C°              |
| Acceptable Range |       |      | 6.00 - 8.00                           | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | -         | -190.0 - 240.0 mV | 4.00 - 20.00 C° |
| Tolerance Levels |       |      | +/- 0.1                               | +/- 3%                | +/- 10%               | <20       | +/- 10 mV         | +/- 0.2         |
| First Water      | 9.83  | 1035 | 7.33                                  | 0.513                 | 6.51                  | 37.1      | -7.8              | 15.42           |
| 1                | 11.04 | 1040 | 7.04                                  | 0.392                 | 5.37                  | 23.8      | 21.7              | 15.53           |
| 2                | 11.99 | 1045 | 6.93                                  | 0.376                 | 6.04                  | 13.4      | 40.7              | 15.70           |
| 3                | 13.82 | 1050 | 6.94                                  | 0.443                 | 6.88                  | 80.5      | 51.1              | 15.45           |
| 4                |       |      | purged well dry - waited for recovery |                       |                       |           |                   |                 |
| 5                |       |      |                                       |                       |                       |           |                   |                 |
| 6                |       |      |                                       |                       |                       |           |                   |                 |

Increase pump rate to 250 ml/min

### SECTION 4: Equipment and Method Information

Purging Equipment: Peristaltic pump  
Purge/Flow Rate: ~150 ml/min → 250 ml/min Total Volume Purged: ~2 gallons  
Field Parameter Instruments: XSI, Turbidity meter

### SECTION 5: Sample Information

| Samples         | ID                 | Time | VOCs | Other | Other |
|-----------------|--------------------|------|------|-------|-------|
| Parent          | MW12-GW1424-102511 | 1100 | X    |       |       |
| Duplicate       |                    |      |      |       |       |
| MS/MSD          |                    |      |      |       |       |
| Equipment Blank |                    |      |      |       |       |

### REMARKS:

### NOTES:

- DENOTES STABILIZATION PARAMETERS.
- One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft
- One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft
- Varies from 0.0 to 9.5 at water temperature 15-25C°; 0.0 to 14.5 at water temperature 1-14C°  
- milliliters per minute = gallons per minute/0.0002641



|                                                                                      |                                                     |                                                                                                                                  |  |
|--------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|
| <b>PROJECT:</b> Former General Latex and Chemical Corporation<br>Facility- Fall 2011 |                                                     | <b>WELL ID:</b> MW-16<br><b>DATE/TIME:</b> 10/24/11, 1520                                                                        |  |
| <b>Sampler(s):</b><br>D. Telle / M. Gale                                             | <b>Well Diameter:</b> 2"<br><b>PID Reading:</b> 0.0 | <b>Weather Conditions:</b> Sunny, 56°<br><b>Purge Method:</b> (Circle One) <u>Low Flow</u> <del>Volumetric</del><br>(Circle One) |  |

**SECTION 1: Purge Volume Information**

|                                          |                                      |
|------------------------------------------|--------------------------------------|
| (1) TD = Total Depth of Well (ft): 20.19 | (2) DTW = Depth to Water (ft): 11.93 |
|------------------------------------------|--------------------------------------|

**SECTION 2: For Volumetric Sampling Only**

|                                                          |                                            |
|----------------------------------------------------------|--------------------------------------------|
| (3) Height of Water in Well = TD - DTW = [(1)-(2)]: 8.26 | (4) One Purge Volume <sup>2,3</sup> : 1.32 |
|----------------------------------------------------------|--------------------------------------------|

**SECTION 3: Field Parameter Data**

| Parameter        | DTW                                  | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | Turbidity | ORP               | Temperature     |
|------------------|--------------------------------------|------|-----------------|-----------------------|-----------------------|-----------|-------------------|-----------------|
| Parameter Units  | ft                                   |      | SU              | mS/cm                 | mg/L                  | NTUs      | mV                | C°              |
| Acceptable Range |                                      |      | 6.00 - 8.00     | 0.300 - 1.300 mS/cm   | See Note <sup>4</sup> |           | -190.0 - 240.0 mV | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4                                  |      | +/- 0.1         | +/- 3%                | +/- 10%               | <20       | +/- 10 mV         | +/- 0.2         |
| First Water      | 12.53                                | 1525 | 6.62            | 1.376                 | 2.26                  | 52.70     | -49.8             | 16.88           |
| 1                | 13.75                                | 1530 | 6.57            | 1.357                 | 1.09                  | 131.3     | -59.2             | 16.83           |
| 2                | Well went dry -> Waited for recovery |      |                 |                       |                       |           |                   |                 |
| 3                | 19.89                                | 1535 | 6.56            | 1.472                 | 0.79                  | 30.2      | -70.3             | 16.92           |
| 4                |                                      |      |                 |                       |                       |           |                   |                 |
| 5                |                                      |      |                 |                       |                       |           |                   |                 |
| 6                |                                      |      |                 |                       |                       |           |                   |                 |

**SECTION 4: Equipment and Method Information**

**Purging Equipment:** Peristaltic pump  
**Purge/Flow Rate:** ~ 150 ml/min **Total Volume Purged:** ~ 1.5 gallons  
**Field Parameter Instruments:** YSI, Turbidity meter

**SECTION 5: Sample Information**

| Samples         | ID                | Time | VOCs | Other | Other |
|-----------------|-------------------|------|------|-------|-------|
| Parent          | MW16GW1020-102411 | 1540 | X    |       |       |
| Duplicate       |                   |      |      |       |       |
| MS/MSD          |                   |      |      |       |       |
| Equipment Blank |                   |      |      |       |       |

**REMARKS:**
**NOTES:**

- 1 - DENOTES STABILIZATION PARAMETERS.
- 2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft
- 3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft
- 4 - Varies from 0.0 to 9.5 at water temperature 15-25C°; 0.0 to 14.5 at water temperature 1-14C°  
 - milliliters per minute = gallons per minute/0.002641



| <b>PROJECT:</b> Former General Latex and Chemical Corporation<br>Facility- Fall 2011                                                                                                                                                                                                                                                                                                                                 |                     |                          |                 |                       | <b>WELL ID:</b> MW-18                                        |           |                   |                 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------|-----------------|-----------------------|--------------------------------------------------------------|-----------|-------------------|-----------------|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                          |                 |                       | <b>DATE/TIME:</b> 10/24/11, 1330                             |           |                   |                 |  |
| <b>Sampler(s):</b><br>D. Telle/M. Gale                                                                                                                                                                                                                                                                                                                                                                               |                     | <b>Well Diameter:</b> 2" |                 |                       | <b>Weather Conditions:</b> Cloudy, high 59°, low 53°         |           |                   |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                     | <b>PID Reading:</b> 0.0  |                 |                       | <b>Purge Method:</b> (Circle One) <u>Low Flow</u> Volumetric |           |                   |                 |  |
| <b>SECTION 1: Purge Volume Information</b>                                                                                                                                                                                                                                                                                                                                                                           |                     |                          |                 |                       |                                                              |           |                   |                 |  |
| <b>(1) TD = Total Depth of Well (ft):</b> 34.5                                                                                                                                                                                                                                                                                                                                                                       |                     |                          |                 |                       | <b>(2) DTW = Depth to Water (ft):</b> 19.63                  |           |                   |                 |  |
| <b>SECTION 2: For Volumetric Sampling Only</b>                                                                                                                                                                                                                                                                                                                                                                       |                     |                          |                 |                       |                                                              |           |                   |                 |  |
| <b>(3) Height of Water in Well = TD - DTW = [(1)-(2)]:</b> —                                                                                                                                                                                                                                                                                                                                                         |                     |                          |                 |                       | <b>(4) One Purge Volume<sup>2,3</sup>:</b> —                 |           |                   |                 |  |
| <b>SECTION 3: Field Parameter Data</b>                                                                                                                                                                                                                                                                                                                                                                               |                     |                          |                 |                       |                                                              |           |                   |                 |  |
| Parameter                                                                                                                                                                                                                                                                                                                                                                                                            | DTW                 | Time                     | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>                                              | Turbidity | ORP               | Temperature     |  |
| <i>Parameter Units</i>                                                                                                                                                                                                                                                                                                                                                                                               | ft                  |                          | SU              | mS/cm                 | mg/L                                                         | NTUs      | mV                | C°              |  |
| <i>Acceptable Range</i>                                                                                                                                                                                                                                                                                                                                                                                              | —                   | —                        | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup>                                        | —         | -190.0 - 240.0 mV | 4.00 - 20.00 C° |  |
| <i>Tolerance Levels</i>                                                                                                                                                                                                                                                                                                                                                                                              | 0.4                 | —                        | +/- 0.1         | +/- 3%                | +/- 10%                                                      | <20       | +/- 10 mV         | +/- 0.2         |  |
| First Water                                                                                                                                                                                                                                                                                                                                                                                                          | 19.88               | 1355                     | 7.26            | 0.172                 | 1.78                                                         | 2.12      | -128.4            | 13.29           |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                    | 19.90               | 1400                     | 6.93            | 0.170                 | 0.78                                                         | 2.74      | -149.2            | 13.08           |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                    | 19.89               | 1405                     | 6.92            | 0.203                 | 0.67                                                         | 3.09      | -155.0            | 13.04           |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                    | 19.90               | 1410                     | 7.00            | 0.357                 | 0.63                                                         | 4.85      | -177              | 13.06           |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                    | 19.89               | 1415                     | 7.08            | 0.818                 | 0.62                                                         | 2.06      | -144              | 12.90           |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                    | 19.92               | 1420                     | 7.11            | 0.835                 | 0.59                                                         | 2.89      | -139              | 12.84           |  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                    | 19.92               | 1425                     | 7.13            | 0.840                 | 0.57                                                         | 1.87      | -135              | 13.00           |  |
| <b>SECTION 4: Equipment and Method Information</b>                                                                                                                                                                                                                                                                                                                                                                   |                     |                          |                 |                       |                                                              |           |                   |                 |  |
| <b>Purging Equipment:</b> Peristaltic pump                                                                                                                                                                                                                                                                                                                                                                           |                     |                          |                 |                       |                                                              |           |                   |                 |  |
| <b>Purge/Flow Rate:</b> ~ 120 ml/min                                                                                                                                                                                                                                                                                                                                                                                 |                     |                          |                 |                       | <b>Total Volume Purged:</b> ~ 2.5 gallons                    |           |                   |                 |  |
| <b>Field Parameter Instruments:</b> YSI, Turbidity meter                                                                                                                                                                                                                                                                                                                                                             |                     |                          |                 |                       |                                                              |           |                   |                 |  |
| <b>SECTION 5: Sample Information</b>                                                                                                                                                                                                                                                                                                                                                                                 |                     |                          |                 |                       |                                                              |           |                   |                 |  |
| Samples                                                                                                                                                                                                                                                                                                                                                                                                              | ID                  | Time                     | VOCs            | Other                 | Other                                                        |           |                   |                 |  |
| Parent                                                                                                                                                                                                                                                                                                                                                                                                               | MW18 GW 3035-102411 | 1425                     | X               | —                     | —                                                            |           |                   |                 |  |
| Duplicate                                                                                                                                                                                                                                                                                                                                                                                                            | —                   | —                        | —               | —                     | —                                                            |           |                   |                 |  |
| MS/MSD                                                                                                                                                                                                                                                                                                                                                                                                               | —                   | —                        | —               | —                     | —                                                            |           |                   |                 |  |
| Equipment Blank                                                                                                                                                                                                                                                                                                                                                                                                      | —                   | —                        | —               | —                     | —                                                            |           |                   |                 |  |
| <b>REMARKS:</b>                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                          |                 |                       |                                                              |           |                   |                 |  |
| <b>NOTES:</b><br>1 - DENOTES STABILIZATION PARAMETERS.<br>2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft<br>3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft<br>4 - Varies from 0.0 to 9.5 at water temperature 15-25C°; 0.0 to 14.5 at water temperature 1-14C°<br>- milliliters per minute = gallons per minute/0.0002641 |                     |                          |                 |                       |                                                              |           |                   |                 |  |



|                                                                                   |                                                     |                                                                                                          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>PROJECT:</b> Former General Latex and Chemical Corporation Facility- Fall 2011 |                                                     | <b>WELL ID:</b> MW-19<br><b>DATE/TIME:</b> 10/25/11, 1320                                                |
| <b>Sampler(s):</b><br>D. Telle / M. Gale                                          | <b>Well Diameter:</b> 2"<br><b>PID Reading:</b> 0.0 | <b>Weather Conditions:</b> Sunny, 58°<br><b>Purge Method:</b> <u>Low Flow</u> Volumetric<br>(Circle One) |

**SECTION 1: Purge Volume Information**

|                                         |                                      |
|-----------------------------------------|--------------------------------------|
| (1) TD = Total Depth of Well (ft): 35.4 | (2) DTW = Depth to Water (ft): 22.03 |
|-----------------------------------------|--------------------------------------|

**SECTION 2: For Volumetric Sampling Only**

|                                                       |                                         |
|-------------------------------------------------------|-----------------------------------------|
| (3) Height of Water in Well = TD - DTW = [(1)-(2)]: — | (4) One Purge Volume <sup>2,3</sup> : — |
|-------------------------------------------------------|-----------------------------------------|

**SECTION 3: Field Parameter Data**

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup> | Turbidity | ORP               | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------|-----------|-------------------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L            | NTUs      | mV                | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note 4      | —         | -190.0 - 240.0 mV | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   |      | +/- 0.1         | +/- 3%                | +/- 10%         | <20       | +/- 10 mV         | +/- 0.2         |
| First Water      | 22.03 | 1330 | 7.07            | 2.330                 | 6.21            | 22.2      | 59.8              | 17.44           |
| 1                | 22.03 | 1335 | 6.87            | 2.268                 | 2.98            | 1.89      | 62.1              | 16.53           |
| 2                | 22.03 | 1340 | 6.86            | 2.260                 | 2.71            | 1.08      | 63.2              | 16.72           |
| 3                | 22.03 | 1345 | 6.84            | 2.263                 | 2.68            | 0.91      | 64.8              | 16.76           |
| 4                |       |      |                 |                       |                 |           |                   |                 |
| 5                |       |      |                 |                       |                 |           |                   |                 |
| 6                |       |      |                 |                       |                 |           |                   |                 |

**SECTION 4: Equipment and Method Information**

**Purging Equipment:** Peristaltic Pump  
**Purge/Flow Rate:** ~ 150 ml/min **Total Volume Purged:** ~ 1 galbus  
**Field Parameter Instruments:** YSI, Turbidity meter

**SECTION 5: Sample Information**

| Samples         | ID                | Time | VOCs | Other | Other |
|-----------------|-------------------|------|------|-------|-------|
| Parent          | MW19GW1828-102511 | 1345 | X    |       |       |
| Duplicate       |                   |      |      |       |       |
| MS/MSD          |                   |      |      |       |       |
| Equipment Blank |                   |      |      |       |       |

**REMARKS:**
**NOTES:**

- 1 - DENOTES STABILIZATION PARAMETERS.
- 2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft
- 3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft
- 4 - Varies from 0.0 to 9.5 at water temperature 15-25C°; 0.0 to 14.5 at water temperature 1-14C°  
 - milliliters per minute = gallons per minute/0.0002641



|                                                                                      |                                                     |                                                                                                       |
|--------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>PROJECT:</b> Former General Latex and Chemical Corporation<br>Facility- Fall 2011 |                                                     | <b>WELL ID:</b> MW-20<br><b>DATE/TIME:</b> 10/25/11, 0820                                             |
| <b>Sampler(s):</b><br>D. Tecle/M. Gola                                               | <b>Well Diameter:</b> 2"<br><b>PID Reading:</b> 0.0 | <b>Weather Conditions:</b> Sunny, 48°<br><b>Purge Method:</b> (Circle One) <u>Low Flow</u> Volumetric |

**SECTION 1: Purge Volume Information**

|                                          |                                      |
|------------------------------------------|--------------------------------------|
| (1) TD = Total Depth of Well (ft): 33.11 | (2) DTW = Depth to Water (ft): 21.24 |
|------------------------------------------|--------------------------------------|

**SECTION 2: For Volumetric Sampling Only**

|                                                       |                                         |
|-------------------------------------------------------|-----------------------------------------|
| (3) Height of Water in Well = TD - DTW = [(1)-(2)]: — | (4) One Purge Volume <sup>2,3</sup> : — |
|-------------------------------------------------------|-----------------------------------------|

**SECTION 3: Field Parameter Data**

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | Turbidity | ORP               | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------------|-----------|-------------------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L                  | NTUs      | mV                | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | —         | -190.0 - 240.0 mV | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   |      | +/- 0.1         | +/- 3%                | +/- 10%               | <20       | +/- 10 mV         | +/- 0.2         |
| First Water      | 21.26 | 0835 | 7.18            | 1.740                 | 5.30                  | 61.3      | -77.9             | 12.45           |
| 1                | 21.25 | 0840 | 7.16            | 1.772                 | 1.34                  | 31.5      | -95.7             | 12.30           |
| 2                | 21.25 | 0845 | 7.16            | 1.761                 | 0.70                  | 25.2      | -103.5            | 12.24           |
| 3                | 21.25 | 0850 | 7.15            | 1.759                 | 0.69                  | 16.1      | -105.4            | 12.32           |
| 4                | 21.25 | 0855 | 7.15            | 1.753                 | 0.61                  | 13.7      | -105.3            | 12.38           |
| 5                | 21.25 | 0900 | 7.15            | 1.750                 | 0.59                  | 11.2      | -106.4            | 12.35           |
| 6                | 21.25 | 0905 | 7.14            | 1.749                 | 0.55                  | 9.88      | -106.3            | 12.38           |

**SECTION 4: Equipment and Method Information**

**Purging Equipment:** Peristaltic Pump

**Purge/Flow Rate:** ~100 ml/min      **Total Volume Purged:** ~1.5 gallons

**Field Parameter Instruments:** YSI, Turbidity Meter

**SECTION 5: Sample Information**

| Samples         | ID                | Time | VOCs | Other | Other |
|-----------------|-------------------|------|------|-------|-------|
| Parent          | MW20GW2333-102511 | 0905 | X    |       |       |
| Duplicate       |                   |      |      |       |       |
| MS/MSD          |                   |      |      |       |       |
| Equipment Blank |                   |      |      |       |       |

**REMARKS:**

**NOTES:**

- 1 - DENOTES STABILIZATION PARAMETERS.
- 2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft
- 3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft
- 4 - Varies from 0.0 to 9.5 at water temperature 15-25C°; 0.0 to 14.5 at water temperature 1-14C°  
 - milliliters per minute = gallons per minute/0.0002641



|                                                                                      |                          |                                                                 |
|--------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------|
| <b>PROJECT:</b> Former General Latex and Chemical Corporation<br>Facility- Fall 2011 |                          | <b>WELL ID:</b> MW-21                                           |
|                                                                                      |                          | <b>DATE/TIME:</b> 10/25/11, 0725                                |
| <b>Sampler(s):</b><br>D-Tecle/M. Gale                                                | <b>Well Diameter:</b> 2" | <b>Weather Conditions:</b> Cloudy, 41°                          |
|                                                                                      | <b>PID Reading:</b> 0.0  | <b>Purge Method:</b><br>(Circle One) <u>Low Flow</u> Volumetric |

**SECTION 1: Purge Volume Information**

|                                          |                                      |
|------------------------------------------|--------------------------------------|
| (1) TD = Total Depth of Well (ft): 34.08 | (2) DTW = Depth to Water (ft): 21.60 |
|------------------------------------------|--------------------------------------|

**SECTION 2: For Volumetric Sampling Only**

|                                                       |                                         |
|-------------------------------------------------------|-----------------------------------------|
| (3) Height of Water in Well = TD - DTW = [(1)-(2)]: — | (4) One Purge Volume <sup>2,3</sup> : — |
|-------------------------------------------------------|-----------------------------------------|

**SECTION 3: Field Parameter Data**

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup> | Turbidity | ORP               | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------|-----------|-------------------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L            | NTUs      | mV                | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note 4      | —         | -190.0 - 240.0 mV | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   | —    | +/- 0.1         | +/- 3%                | +/- 10%         | <20       | +/- 10 mV         | +/- 0.2         |
| First Water      | 21.61 | 0755 | 7.24            | 1.374                 | 11.27           | 49.2      | -113.7            | 12.77           |
| 1                | 21.61 | 0800 | 7.26            | 1.383                 | 1.48            | 20.6      | -135.4            | 12.57           |
| 2                | 21.61 | 0805 | 7.28            | 1.379                 | 0.96            | 10.3      | -139.6            | 12.54           |
| 3                | 21.61 | 0810 | 7.28            | 1.379                 | 0.92            | 10.1      | -139.5            | 12.53           |
| 4                | 21.61 | 0815 | 7.29            | 1.377                 | 0.90            | 9.4       | -136.2            | 12.56           |
| 5                | —     | —    | —               | —                     | —               | —         | —                 | —               |
| 6                | —     | —    | —               | —                     | —               | —         | —                 | —               |

**SECTION 4: Equipment and Method Information**

**Purging Equipment:** Peristaltic Pump

**Purge/Flow Rate:** ~100 mL/min **Total Volume Purged:** ~ 1 gallon

**Field Parameter Instruments:** YSI, Turbidity meter

**SECTION 5: Sample Information**

| Samples         | ID                   | Time | VOCs | Other | Other |
|-----------------|----------------------|------|------|-------|-------|
| Parent          | MW21 G-W 2434-102511 | 0815 | X    | —     | —     |
| Duplicate       | FD01-102511          | 0815 | X    | —     | —     |
| MS/MSD          | —                    | —    | —    | —     | —     |
| Equipment Blank | —                    | —    | —    | —     | —     |

**REMARKS:**
**NOTES:**

- 1 - DENOTES STABILIZATION PARAMETERS.
- 2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft
- 3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft
- 4 - Varies from 0.0 to 9.5 at water temperature 15-25C°; 0.0 to 14.5 at water temperature 1-14C°  
- milliliters per minute = gallons per minute/0.0002641



| PROJECT: Former General Latex and Chemical Corporation<br>Facility- Fall 2011                    |                      |                   |                 |                       | WELL ID: MW-22                                           |           |                   |                 |  |
|--------------------------------------------------------------------------------------------------|----------------------|-------------------|-----------------|-----------------------|----------------------------------------------------------|-----------|-------------------|-----------------|--|
|                                                                                                  |                      |                   |                 |                       | DATE/TIME: 10/25/11, 1000                                |           |                   |                 |  |
| Sampler(s):<br>D Teale / M. Gale                                                                 |                      | Well Diameter: 2" |                 |                       | Weather Conditions: Sunny, 51°                           |           |                   |                 |  |
|                                                                                                  |                      | PID Reading: 0.0  |                 |                       | Purge Method:<br>(Circle One) <u>Low Flow</u> Volumetric |           |                   |                 |  |
| SECTION 1: Purge Volume Information                                                              |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| (1) TD = Total Depth of Well (ft): 34.91                                                         |                      |                   |                 |                       | (2) DTW = Depth to Water (ft): 18.20                     |           |                   |                 |  |
| SECTION 2: For Volumetric Sampling Only                                                          |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| (3) Height of Water in Well = TD - DTW = [(1)-(2)]: —                                            |                      |                   |                 |                       | (4) One Purge Volume <sup>2,3</sup> : —                  |           |                   |                 |  |
| SECTION 3: Field Parameter Data                                                                  |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| Parameter                                                                                        | DTW                  | Time              | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>                                          | Turbidity | ORP               | Temperature     |  |
| Parameter Units                                                                                  | ft                   |                   | SU              | mS/cm                 | mg/L                                                     | NTUs      | mV                | C°              |  |
| Acceptable Range                                                                                 | —                    | —                 | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup>                                    | —         | -190.0 - 240.0 mV | 4.00 - 20.00 C° |  |
| Tolerance Levels                                                                                 | 0.4                  |                   | +/- 0.1         | +/- 3%                | +/- 10%                                                  | <20       | +/- 10 mV         | +/- 0.2         |  |
| First Water                                                                                      | 18.22                | 1005              | 7.05            | 3.091                 | 4.78                                                     | 16.60     | -7.8              | 13.38           |  |
| 1                                                                                                | 18.24                | 1010              | 6.79            | 3.551                 | 1.01                                                     | 5.37      | 5.3               | 13.36           |  |
| 2                                                                                                | 18.24                | 1015              | 6.80            | 3.543                 | 0.78                                                     | 4.13      | 3.7               | 13.51           |  |
| 3                                                                                                | 18.24                | 1020              | 6.80            | 3.530                 | 0.79                                                     | 4.60      | 1.3               | 13.72           |  |
| 4                                                                                                | 18.24                | 1025              | 6.82            | 3.520                 | 0.73                                                     | 6.84      | -1.3              | 13.62           |  |
| 5                                                                                                |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| 6                                                                                                |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| SECTION 4: Equipment and Method Information                                                      |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| Purging Equipment: Peristaltic pump                                                              |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| Purge/Flow Rate: ~ 100 ml/min                                                                    |                      |                   |                 |                       | Total Volume Purged: ~ 1 gallons                         |           |                   |                 |  |
| Field Parameter Instruments: YSI, Turbidity meter                                                |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| SECTION 5: Sample Information                                                                    |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| Samples                                                                                          | ID                   | Time              | VOCs            | Other                 | Other                                                    |           |                   |                 |  |
| Parent                                                                                           | MW 22G-W 2535-102511 | 1025              | X               |                       |                                                          |           |                   |                 |  |
| Duplicate                                                                                        |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| MS/MSD                                                                                           |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| Equipment Blank                                                                                  |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| REMARKS:                                                                                         |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| NOTES:                                                                                           |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| 1 - DENOTES STABILIZATION PARAMETERS.                                                            |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| 2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft    |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| 3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft       |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| 4 - Varies from 0.0 to 9.5 at water temperature 15-25C°; 0.0 to 14.5 at water temperature 1-14C° |                      |                   |                 |                       |                                                          |           |                   |                 |  |
| - milliliters per minute = gallons per minute/0.0002641                                          |                      |                   |                 |                       |                                                          |           |                   |                 |  |



|                                                                                      |                          |                                                                 |
|--------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------|
| <b>PROJECT:</b> Former General Latex and Chemical Corporation<br>Facility- Fall 2011 |                          | <b>WELL ID:</b> MW-23                                           |
|                                                                                      |                          | <b>DATE/TIME:</b> 10/25/11, 0920                                |
| <b>Sampler(s):</b><br>D Tecle / M. Crabe                                             | <b>Well Diameter:</b> 2" | <b>Weather Conditions:</b> Sunny, 48°                           |
|                                                                                      | <b>PID Reading:</b> 0.0  | <b>Purge Method:</b> <u>Low Flow</u> Volumetric<br>(Circle One) |

**SECTION 1: Purge Volume Information**

|                                         |                                      |
|-----------------------------------------|--------------------------------------|
| (1) TD = Total Depth of Well (ft): 40.0 | (2) DTW = Depth to Water (ft): 18.13 |
|-----------------------------------------|--------------------------------------|

**SECTION 2: For Volumetric Sampling Only**

|                                                       |                                         |
|-------------------------------------------------------|-----------------------------------------|
| (3) Height of Water in Well = TD - DTW = [(1)-(2)]: — | (4) One Purge Volume <sup>2,3</sup> : — |
|-------------------------------------------------------|-----------------------------------------|

**SECTION 3: Field Parameter Data**

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | Turbidity | ORP               | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------------|-----------|-------------------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L                  | NTUs      | mV                | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | —         | -190.0 - 240.0 mV | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   | —    | +/- 0.1         | +/- 3%                | +/- 10%               | <20       | +/- 10 mV         | +/- 0.2         |
| First Water      | 18.13 | 0925 | 7.18            | 1.457                 | 3.07                  | 67.4      | -87.7             | 12.48           |
| 1                | 18.13 | 0930 | 7.17            | 1.273                 | 1.09                  | 56.7      | -78.5             | 12.35           |
| 2                | 18.13 | 0935 | 7.11            | 1.235                 | 0.80                  | 36.8      | -76.0             | 12.62           |
| 3                | 18.13 | 0940 | 7.11            | 1.220                 | 0.78                  | 14.9      | -77.9             | 12.94           |
| 4                | 18.13 | 0945 | 7.11            | 1.207                 | 0.76                  | 8.71      | -79.6             | 13.08           |
| 5                | —     | —    | —               | —                     | —                     | —         | —                 | —               |
| 6                | —     | —    | —               | —                     | —                     | —         | —                 | —               |

**SECTION 4: Equipment and Method Information**

|                                                          |                                        |
|----------------------------------------------------------|----------------------------------------|
| <b>Purging Equipment:</b> Peristaltic pump               | <b>Total Volume Purged:</b> ~ 1 gallon |
| <b>Purge/Flow Rate:</b> ~ 100 ml/min                     |                                        |
| <b>Field Parameter Instruments:</b> YSI, Turbidity meter |                                        |

**SECTION 5: Sample Information**

| Samples         | ID                  | Time | VOCs | Other | Other |
|-----------------|---------------------|------|------|-------|-------|
| Parent          | MW23 GW 3040-102511 | 0945 | X    | —     | —     |
| Duplicate       | —                   | —    | —    | —     | —     |
| MS/MSD          | —                   | —    | —    | —     | —     |
| Equipment Blank | —                   | —    | —    | —     | —     |

**REMARKS:**
**NOTES:**

- 1 - DENOTES STABILIZATION PARAMETERS.
- 2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft
- 3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft
- 4 - Varies from 0.0 to 9.5 at water temperature 15-25C°; 0.0 to 14.5 at water temperature 1-14C°  
- milliliters per minute = gallons per minute/0.0002641



|                                                                                      |                          |                                                                                                          |  |
|--------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------|--|
| <b>PROJECT:</b> Former General Latex and Chemical Corporation<br>Facility- Fall 2011 |                          | <b>WELL ID:</b> BMW                                                                                      |  |
|                                                                                      |                          | <b>DATE/TIME:</b> 10/24/11, 1430                                                                         |  |
| <b>Sampler(s):</b><br>D. Tiede / M. Gule                                             | <b>Well Diameter:</b> 2" | <b>Weather Conditions:</b> Partly Cloudy 52°<br><b>Purge Method:</b> Low Flow Volumetric<br>(Circle One) |  |
|                                                                                      | <b>PID Reading:</b> 0.0  |                                                                                                          |  |

**SECTION 1: Purge Volume Information**

|                                         |                                      |
|-----------------------------------------|--------------------------------------|
| (1) TD = Total Depth of Well (ft): 27.3 | (2) DTW = Depth to Water (ft): 18.58 |
|-----------------------------------------|--------------------------------------|

**SECTION 2: For Volumetric Sampling Only**

|                                                       |                                         |
|-------------------------------------------------------|-----------------------------------------|
| (3) Height of Water in Well = TD - DTW = [(1)-(2)]: — | (4) One Purge Volume <sup>2,3</sup> : — |
|-------------------------------------------------------|-----------------------------------------|

**SECTION 3: Field Parameter Data**

| Parameter        | DTW   | Time | pH <sup>1</sup> | Sp Cond. <sup>1</sup> | DO <sup>1</sup>       | Turbidity | ORP               | Temperature     |
|------------------|-------|------|-----------------|-----------------------|-----------------------|-----------|-------------------|-----------------|
| Parameter Units  | ft    |      | SU              | mS/cm                 | mg/L                  | NTUs      | mV                | C°              |
| Acceptable Range | —     | —    | 6.00 - 8.00     | 0.300-1.300 mS/cm     | See Note <sup>4</sup> | —         | -190.0 - 240.0 mV | 4.00 - 20.00 C° |
| Tolerance Levels | 0.4   | —    | +/- 0.1         | +/- 3%                | +/- 10%               | <20       | +/- 10 mV         | +/- 0.2         |
| First Water      | 18.60 | 1440 | 7.17            | 1.123                 | 2.72                  | 52        | -67.1             | 15.46           |
| 1                | 18.59 | 1445 | 7.15            | 1.121                 | 0.73                  | 28.2      | -85.9             | 15.12           |
| 2                | 18.61 | 1450 | 7.16            | 1.118                 | 0.65                  | 19.30     | -89.8             | 15.04           |
| 3                | 18.59 | 1455 | 7.15            | 1.116                 | 0.61                  | 13.20     | -90.7             | 15.13           |
| 4                | 18.59 | 1500 | 7.15            | 1.117                 | 0.59                  | 11.5      | -90.1             | 15.31           |
| 5                | 18.59 | 1505 | 7.15            | 1.116                 | 0.58                  | 10.5      | -89.9             | 15.50           |
| 6                | 18.60 | 1510 | 7.15            | 1.112                 | 0.57                  | 7.40      | -86.7             | 15.17           |

**SECTION 4: Equipment and Method Information**

**Purging Equipment:** Peristaltic pump  
**Purge/Flow Rate:** ~150 ml/min      **Total Volume Purged:** ~ 2.0 gallons  
**Field Parameter Instruments:** YSI, Turbidity meter

**SECTION 5: Sample Information**

| Samples         | ID                | Time | VOCs | Other | Other |
|-----------------|-------------------|------|------|-------|-------|
| Parent          | BMW-GW1828-102411 | 1510 | X    | —     | —     |
| Duplicate       | —                 | —    | —    | —     | —     |
| MS/MSD          | —                 | —    | —    | —     | —     |
| Equipment Blank | —                 | —    | —    | —     | —     |

**REMARKS:**
**NOTES:**

- 1 - DENOTES STABILIZATION PARAMETERS.
- 2 - One purge volume (gallons) for a 1.25" dia. well: (Height of Water in Well) x 0.06 gal/ft
- 3 - One purge volume (gallons) for a 2" dia. well: (Height of Water in Well) x 0.16 gal/ft
- 4 - Varies from 0.0 to 9.5 at water temperature 15-25C°; 0.0 to 14.5 at water temperature 1-14C°  
 - milliliters per minute = gallons per minute/0.0002641



TABLE 1

Groundwater Level Measurements - Fall 2011

Former General Latex and Chemical Corporation, Ashland, Ohio

| Well ID | Screened Interval |    | Top of Casing (TOC)<br>Elevation | Measured Depth to<br>Water (feet bgs)<br>DATE: | Groundwater<br>Elevation (feet amsl) |
|---------|-------------------|----|----------------------------------|------------------------------------------------|--------------------------------------|
| MW-1    | 17                | 27 | 1000.34                          | 10/24/11                                       | 15.78 14.52                          |
| MW-2    | 13                | 23 | 998.71                           |                                                | 8.29                                 |
| MW-3    | 16                | 36 | 1001.57                          |                                                | 21.80                                |
| MW-4    | 7                 | 17 | 997.83                           |                                                | 0.2                                  |
| MW-6    | 10                | 20 | 996.99                           |                                                | 15.20                                |
| MW-7    | 20                | 30 | 1001.11                          |                                                | 21.37                                |
| MW-8    | 3                 | 13 | 998.58                           |                                                | 7.10                                 |
| MW-9    | 14                | 24 | 1000.92                          |                                                | 20.54                                |
| MW-10   | 17                | 32 | 1003.30                          |                                                | 23.10                                |
| MW-11   | 9                 | 19 | 1001.15                          |                                                | 4.80                                 |
| MW-12   | 14                | 24 | 997.41                           |                                                | 9.92                                 |
| MW-13D  | 14                | 24 | 997.76                           |                                                | 16.40                                |
| MW-14D  | 42                | 52 | 999.22                           |                                                | 18.22                                |
| BMW     | 18                | 28 | 999.21                           |                                                | 18.54                                |
| MW-15   | 20                | 30 | 997.81                           |                                                | 18.02                                |
| MW-16   | 10                | 20 | 997.94                           |                                                | 13.98 / 11.93                        |
| MW-17D  | 48                | 58 | 1000.31                          |                                                | 20.86                                |
| MW-18   | 30                | 35 | 1000.55                          |                                                | 19.63                                |
| MW-19   | 18                | 28 | 1002.76                          |                                                | 22.05                                |
| MW-20   | 23                | 33 | 1001.24                          |                                                | 21.21                                |
| MW-21   | 24                | 34 | 1001.27                          |                                                | 21.58                                |
| MW-22   | 25                | 35 | 997.49                           |                                                | 18.19                                |
| MW-23   | 30                | 40 | 997.13                           |                                                | 18.12                                |

## Abbreviations

ft btoc - feet below top of casing

measurement  
during sampling  
(5 hr later)



Appendix B  
**Laboratory Analytical Data**

---





158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • <http://www.microbac.com>

**Laboratory Report Number: L11050025**

Client: Shane Lowe, CH2MHill, St. Louis, MO, 63102

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

|                           |                                     |                                                                                      |
|---------------------------|-------------------------------------|--------------------------------------------------------------------------------------|
| <b>Kathy Albertson</b>    | <i>Team Chemist/Data Specialist</i> | <a href="mailto:Kathy.Albertson@microbac.com">Kathy.Albertson@microbac.com</a>       |
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| <b>Tony Long</b>          | <i>Team Chemist/Data Specialist</i> | <a href="mailto:Tony.Long@microbac.com">Tony.Long@microbac.com</a>                   |
| <b>Amanda Fickiesen</b>   | <i>Client Services Specialist</i>   | <a href="mailto:Amanda.Fickiesen@microbac.com">Amanda.Fickiesen@microbac.com</a>     |
| <b>Annie Brown</b>        | <i>Client Services Specialist</i>   | <a href="mailto:Annie.Brown@microbac.com">Annie.Brown@microbac.com</a>               |

This report was reviewed on May 12, 2011.

Kathy Albertson - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

This report was certified on May 12, 2011.

David Vandenberg - Managing Director

State of origin: Ohio

Accrediting authority: N/A ID:N/A

QAPP: ASHLAND

This report contains a total of 140 pages.

***Look closer. Go further. Do more.***





**Microbac REPORT L11050025**  
**PREPARED FOR CH2MHILL, Inc**  
**WORK ID:**

|                                        |     |
|----------------------------------------|-----|
| 1.0 Introduction .....                 | 3   |
| 2.1 Volatiles Data .....               | 5   |
| 2.1.1 Volatiles GCMS Data (8260) ..... | 6   |
| 2.1.1.1 Summary Data .....             | 7   |
| 2.1.1.2 QC Summary Data .....          | 29  |
| 3.0 Attachments .....                  | 127 |

# 1.0 Introduction





**Login Number:** L11050025

**Department:** Login

**Chain of Custody:**

**Shipment Conditions**

| COC #    | Cooler # | Temperature |
|----------|----------|-------------|
| COC24044 | 0015696  | 3.0         |

**Sample Management:** All samples were received intact.

**Sample Identification**

| Lab ID       | Client ID             |
|--------------|-----------------------|
| L11050025-01 | MW07GW2030-042711     |
| L11050025-02 | MW07GW2030-042711-MS  |
| L11050025-03 | MW07GW2030-042711-MSD |
| L11050025-04 | MW21GW2434-042711     |
| L11050025-05 | FD01-042711           |
| L11050025-06 | MW18GW3035-042711     |
| L11050025-07 | BMWGW1828-042711      |
| L11050025-08 | MW16GW1020-042711     |
| L11050025-09 | MW22GW2535-042811     |
| L11050025-10 | MW23GW3040-042811     |
| L11050025-11 | MW20GW2333-042811     |
| L11050025-12 | FD02-042811           |
| L11050025-13 | MW12GW1424-042811     |
| L11050025-14 | MW10GW1732-042811     |
| L11050025-15 | MW19GW1828-042811     |
| L11050025-16 | MW09GW1424-042811     |
| L11050025-17 | MW03GW1626-042811     |
| L11050025-18 | TRIPBLANK-042811      |

**Narrative ID:** 27163

**Approved By:** Kathy Albertson

*Kathy Albertson*

## **2.1 Volatiles Data**



## **2.1.1 Volatiles GCMS Data (8260)**

## **2.1.1.1 Summary Data**





**Login Number:** L11050025

**Department:** Volatiles

**Analyst:** Anthony Canter

#### **METHOD**

**Preparation** SW-846 5030C/5035A

**Analysis** SW-846 8260B

#### **HOLDING TIMES**

**Sample Preparation:** All holding times were met.

**Sample Analysis:** All holding times were met.

#### **PREPARATION**

Sample preparation proceeded normally.

#### **CALIBRATION**

**Initial Calibration:** For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

**Alternate Source Standards:** All acceptance criteria were met.

**Continuing Calibration and Tune:** Recoveries out of range were observed for the following analytes: Vinyl Chloride. Please see the applicable QC report for a detailed presentation of the failures.

Vinyl chloride was not a target analyte in this SDG. All target analytes met calibration check compound acceptance criteria.

#### **BATCH QA/QC**

**Method Blank:** All acceptance criteria were met.

**Laboratory Control Sample:** All acceptance criteria were met.

**Matrix Spikes:** All acceptance criteria were met.

#### **SAMPLES**

**Internal Standards:** All acceptance criteria were met.

**Surrogates:** All acceptance criteria were met.

**Other:** Samples 08, were run at a dilution.

### Manual Integration Reason Codes

**Reason #1: Data System Fails to Select Correct Peak.** In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

**Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.** This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

**Reason #3: Improperly Integrated Isomers and/or coeluting compounds.** This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

**Reason #4: System Establishes Incorrect Baseline.** There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

**Reason #5: Miscellaneous.** Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

**Narrative ID:** 27866

**Approved By:** Michael Albertson





# LABORATORY REPORT

L11050025

05/12/11 09:57

Submitted By

Microbac Laboratories Inc.  
158 Starlite Drive  
Marietta, OH 45750  
(740) 373-4071

For

Account Name: CH2MHILL, Inc  
CH2MHill  
727 North 1st Street, Suite 400  
St. Louis, MO 63102  
Attention: Shane Lowe

Project Number: 2736.059  
Project: Dow Ashland Soil & Groundwater  
Site: ASHLAND, OHIO

P.O. Number: 934254

## Sample Analysis Summary

| Client ID             | Lab ID       | Method | Dilution | Date Received |
|-----------------------|--------------|--------|----------|---------------|
| MW07GW2030-042711     | L11050025-01 | 8260B  | 1        | 29-APR-11     |
| MW07GW2030-042711-MS  | L11050025-02 | 8260B  | 1        | 29-APR-11     |
| MW07GW2030-042711-MSD | L11050025-03 | 8260B  | 1        | 29-APR-11     |
| MW21GW2434-042711     | L11050025-04 | 8260B  | 1        | 29-APR-11     |
| FD01-042711           | L11050025-05 | 8260B  | 1        | 29-APR-11     |
| MW18GW3035-042711     | L11050025-06 | 8260B  | 1        | 29-APR-11     |
| BMWGW1828-042711      | L11050025-07 | 8260B  | 1        | 29-APR-11     |
| MW16GW1020-042711     | L11050025-08 | 8260B  | 1000     | 29-APR-11     |
| MW22GW2535-042811     | L11050025-09 | 8260B  | 1        | 29-APR-11     |
| MW23GW3040-042811     | L11050025-10 | 8260B  | 1        | 29-APR-11     |
| MW20GW2333-042811     | L11050025-11 | 8260B  | 1        | 29-APR-11     |
| FD02-042811           | L11050025-12 | 8260B  | 1        | 29-APR-11     |
| MW12GW1424-042811     | L11050025-13 | 8260B  | 1        | 29-APR-11     |
| MW10GW1732-042811     | L11050025-14 | 8260B  | 1        | 29-APR-11     |
| MW19GW1828-042811     | L11050025-15 | 8260B  | 1        | 29-APR-11     |
| MW09GW1424-042811     | L11050025-16 | 8260B  | 1        | 29-APR-11     |
| MW03GW1626-042811     | L11050025-17 | 8260B  | 1        | 29-APR-11     |
| TRIPBLANK-042811      | L11050025-18 | 8260B  | 1        | 29-APR-11     |

L1\_A\_PROD - Modified 03/06/2008  
PDF File ID: 2007786  
Report generated: 05/12/2011 09:57

1 OF 1



Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-01**  
 Client ID: **MW07GW2030-042711**  
 Matrix: **Water**  
 Workgroup Number: **WG363415**  
 Collect Date: **04/27/2011 14:30**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **TMB**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS11**  
 Prep Date: **05/03/2011 14:20**  
 Cal Date: **04/08/2011 22:25**  
 Run Date: **05/03/2011 14:20**  
 File ID: **11M74036**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 6.01   | J     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 97.9        | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 102         | 80     | 120   |      |       |
| Toluene-d8             | 91.9        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 99.9        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

J The analyte was positively identified, but the quantitation was below the RL.



Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-02**  
 Client ID: **MW07GW2030-042711-MS**  
 Matrix: **Water**  
 Workgroup Number: **WG363415**  
 Collect Date: **04/27/2011 14:30**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **TMB**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS11**  
 Prep Date: **05/03/2011 12:17**  
 Cal Date: **04/08/2011 22:25**  
 Run Date: **05/03/2011 12:17**  
 File ID: **11M74032**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     | 17.1   |       | 10.0 | 0.500 |
| Chloroform             | 67-66-3     | 21.8   |       | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     | 20.9   |       | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     | 20.2   |       | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 20.5   |       | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 27.1   |       | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 98.7        | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 103         | 80     | 120   |      |       |
| Toluene-d8             | 96.7        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 101         | 86     | 115   |      |       |

Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-03**  
 Client ID: **MW07GW2030-042711-MSD**  
 Matrix: **Water**  
 Workgroup Number: **WG363415**  
 Collect Date: **04/27/2011 14:30**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **TMB**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS11**  
 Prep Date: **05/03/2011 12:47**  
 Cal Date: **04/08/2011 22:25**  
 Run Date: **05/03/2011 12:47**  
 File ID: **11M74033**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     | 17.7   |       | 10.0 | 0.500 |
| Chloroform             | 67-66-3     | 21.5   |       | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     | 21.2   |       | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     | 20.0   |       | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 20.6   |       | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 26.7   |       | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 97.5        | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 99.7        | 80     | 120   |      |       |
| Toluene-d8             | 96.7        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 101         | 86     | 115   |      |       |



Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-04**  
 Client ID: **MW21GW2434-042711**  
 Matrix: **Water**  
 Workgroup Number: **WG363418**  
 Collect Date: **04/27/2011 17:40**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **TMB**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **05/02/2011 17:02**  
 Cal Date: **04/06/2011 14:58**  
 Run Date: **05/02/2011 17:02**  
 File ID: **10M87292**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 99.0        | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 96.6        | 80     | 120   |      |       |
| Toluene-d8             | 104         | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 90.8        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-05**  
 Client ID: **FD01-042711**  
 Matrix: **Water**  
 Workgroup Number: **WG363418**  
 Collect Date: **04/27/2011 00:01**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **TMB**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **05/02/2011 17:33**  
 Cal Date: **04/06/2011 14:58**  
 Run Date: **05/02/2011 17:33**  
 File ID: **10M87293**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 98.7        | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 96.6        | 80     | 120   |      |       |
| Toluene-d8             | 105         | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 92.9        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).



Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-06**  
 Client ID: **MW18GW3035-042711**  
 Matrix: **Water**  
 Workgroup Number: **WG363415**  
 Collect Date: **04/27/2011 15:10**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **TMB**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS11**  
 Prep Date: **05/03/2011 14:51**  
 Cal Date: **04/08/2011 22:25**  
 Run Date: **05/03/2011 14:51**  
 File ID: **11M74037**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 96.6        | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 102         | 80     | 120   |      |       |
| Toluene-d8             | 92.9        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 98.0        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-07**  
 Client ID: **BMWGW1828-042711**  
 Matrix: **Water**  
 Workgroup Number: **WG363418**  
 Collect Date: **04/27/2011 16:00**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **TMB**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **05/02/2011 18:05**  
 Cal Date: **04/06/2011 14:58**  
 Run Date: **05/02/2011 18:05**  
 File ID: **10M87294**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 98.9        | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 96.9        | 80     | 120   |      |       |
| Toluene-d8             | 104         | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 92.1        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).



Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-08**  
 Client ID: **MW16GW1020-042711**  
 Matrix: **Water**  
 Workgroup Number: **WG363971**  
 Collect Date: **04/27/2011 16:50**  
 Sample Tag: **DL02**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **1000**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **05/09/2011 16:18**  
 Cal Date: **04/16/2011 00:19**  
 Run Date: **05/09/2011 16:18**  
 File ID: **8M370049**

| Analyte                | CAS. Number | Result | Qual  | RL    | MDL |
|------------------------|-------------|--------|-------|-------|-----|
| Bromomethane           | 74-83-9     |        | U     | 10000 | 500 |
| Chloroform             | 67-66-3     |        | U     | 5000  | 125 |
| Chloromethane          | 74-87-3     |        | U     | 10000 | 500 |
| Methylene chloride     | 75-09-2     |        | U     | 5000  | 250 |
| Trichloroethene        | 79-01-6     |        | U     | 5000  | 250 |
| Trichlorofluoromethane | 75-69-4     | 197000 |       | 10000 | 250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual  |     |
| Dibromofluoromethane   | 100         | 86     | 118   |       |     |
| 1,2-Dichloroethane-d4  | 98.4        | 80     | 120   |       |     |
| Toluene-d8             | 91.0        | 88     | 110   |       |     |
| 4-Bromofluorobenzene   | 94.4        | 86     | 115   |       |     |

U Not detected at or above the reporting limit (RL).

Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-09**  
 Client ID: **MW22GW2535-042811**  
 Matrix: **Water**  
 Workgroup Number: **WG363720**  
 Collect Date: **04/28/2011 10:15**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **TMB**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **05/05/2011 15:23**  
 Cal Date: **04/06/2011 14:58**  
 Run Date: **05/05/2011 15:23**  
 File ID: **10M87380**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 98.3        | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 95.8        | 80     | 120   |      |       |
| Toluene-d8             | 103         | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 90.4        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).



Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-10**  
 Client ID: **MW23GW3040-042811**  
 Matrix: **Water**  
 Workgroup Number: **WG363720**  
 Collect Date: **04/28/2011 09:25**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **TMB**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **05/05/2011 15:54**  
 Cal Date: **04/06/2011 14:58**  
 Run Date: **05/05/2011 15:54**  
 File ID: **10M87381**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 99.6        | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 99.2        | 80     | 120   |      |       |
| Toluene-d8             | 104         | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 90.6        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-11**  
 Client ID: **MW20GW2333-042811**  
 Matrix: **Water**  
 Workgroup Number: **WG363418**  
 Collect Date: **04/28/2011 08:25**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **TMB**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **05/02/2011 18:37**  
 Cal Date: **04/06/2011 14:58**  
 Run Date: **05/02/2011 18:37**  
 File ID: **10M87295**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 101         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 100         | 80     | 120   |      |       |
| Toluene-d8             | 105         | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 91.6        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).



Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-12**  
 Client ID: **FD02-042811**  
 Matrix: **Water**  
 Workgroup Number: **WG363418**  
 Collect Date: **04/28/2011 00:01**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **TMB**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **05/02/2011 19:09**  
 Cal Date: **04/06/2011 14:58**  
 Run Date: **05/02/2011 19:09**  
 File ID: **10M87296**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 97.8        | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 97.8        | 80     | 120   |      |       |
| Toluene-d8             | 103         | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 91.5        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-13**  
 Client ID: **MW12GW1424-042811**  
 Matrix: **Water**  
 Workgroup Number: **WG363418**  
 Collect Date: **04/28/2011 10:55**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **TMB**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **05/02/2011 19:40**  
 Cal Date: **04/06/2011 14:58**  
 Run Date: **05/02/2011 19:40**  
 File ID: **10M87297**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 11.1   |       | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 0.553  | J     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 98.2        | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 96.6        | 80     | 120   |      |       |
| Toluene-d8             | 104         | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 92.8        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

J The analyte was positively identified, but the quantitation was below the RL.

Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-14**  
 Client ID: **MW10GW1732-042811**  
 Matrix: **Water**  
 Workgroup Number: **WG363720**  
 Collect Date: **04/28/2011 11:40**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **TMB**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **05/05/2011 16:26**  
 Cal Date: **04/06/2011 14:58**  
 Run Date: **05/05/2011 16:26**  
 File ID: **10M87382**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 8.56   |       | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 0.384  | J     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 99.9        | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 98.7        | 80     | 120   |      |       |
| Toluene-d8             | 103         | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 88.9        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

J The analyte was positively identified, but the quantitation was below the RL.



Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-15**  
 Client ID: **MW19GW1828-042811**  
 Matrix: **Water**  
 Workgroup Number: **WG363720**  
 Collect Date: **04/28/2011 13:30**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **TMB**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **05/05/2011 16:58**  
 Cal Date: **04/06/2011 14:58**  
 Run Date: **05/05/2011 16:58**  
 File ID: **10M87383**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 17.7   |       | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 0.713  | J     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 98.4        | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 99.0        | 80     | 120   |      |       |
| Toluene-d8             | 103         | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 91.0        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

J The analyte was positively identified, but the quantitation was below the RL.

Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-16**  
 Client ID: **MW09GW1424-042811**  
 Matrix: **Water**  
 Workgroup Number: **WG363762**  
 Collect Date: **04/28/2011 14:10**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **05/05/2011 16:26**  
 Cal Date: **04/16/2011 00:19**  
 Run Date: **05/05/2011 16:26**  
 File ID: **8M369985**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     | 0.149  | J     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 54.5   |       | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 1.32   | J     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 99.0        | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 97.2        | 80     | 120   |      |       |
| Toluene-d8             | 92.5        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 92.7        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

J The analyte was positively identified, but the quantitation was below the RL.

Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-17**  
 Client ID: **MW03GW1626-042811**  
 Matrix: **Water**  
 Workgroup Number: **WG363762**  
 Collect Date: **04/28/2011 14:50**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **05/05/2011 16:57**  
 Cal Date: **04/16/2011 00:19**  
 Run Date: **05/05/2011 16:57**  
 File ID: **8M369986**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 15.0   |       | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 101         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 98.5        | 80     | 120   |      |       |
| Toluene-d8             | 91.1        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 94.8        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).



Report Number: **L11050025**Report Date : **May 12, 2011**

Sample Number: **L11050025-18**  
 Client ID: **TRIPBLANK-042811**  
 Matrix: **Water**  
 Workgroup Number: **WG363418**  
 Collect Date: **04/28/2011 00:01**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **TMB**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **05/02/2011 16:30**  
 Cal Date: **04/06/2011 14:58**  
 Run Date: **05/02/2011 16:30**  
 File ID: **10M87291**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 99.3        | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 97.8        | 80     | 120   |      |       |
| Toluene-d8             | 104         | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 94.3        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

## **2.1.1.2 QC Summary Data**

## Example 8260 Calculations

### 1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

$$RF = [ (Ax) (Cis) ] / [ (Ais) (Cx) ]$$

#### Example

where:

|                                                                           |         |
|---------------------------------------------------------------------------|---------|
| Ax = Area of the characteristic ion for the compound being measured:      | 3399156 |
| Cis = Concentration of the specific internal standard (ug/mL)             | 25      |
| Ais = Area of the characteristic ion of the specific internal standard    | 846471  |
| Cx = Concentration of the compound in the standard being measured (ug/mL) | 100     |

RF = Calculated Response Factor **1.0039**

### 2.0 Calculating the concentration ( C ) of a compound in water using the average RF: \*

$$Cx = [ (Ax) (Cis) (Vn)(D)] / [ (Ais) (RF) (Vs) ]$$

#### Example

where:

|                                                                        |          |
|------------------------------------------------------------------------|----------|
| Ax = Area of the characteristic ion for the compound being measured    | 3122498  |
| Cis = Concentration of the specific internal standard (ug/L)           | 25       |
| D = Dilution factor for sample as a multiplier ( 10x = 10)             | 1        |
| Ais = Area of the characteristic ion of the specific internal standard | 611048   |
| RF = Average RF from the ICAL                                          | 1.004    |
| Vs = Purge volume of sample (mL)                                       | 10       |
| Vn = Nominal purge volume of sample (mL) ( 10.0 mL )                   | 10       |
| Cx = Concentration of the compound in the sample being measured (ug/L) | 127.2428 |

### 3.0 Calculating the concentration ( C ) of a compound in soil using the average RF: \*

$$Cx = [ (Ax) (Cis) (Wn)(D)] / [ (Ais) (RF) (Ws) ]$$

#### Example

where:

|                                                                        |          |
|------------------------------------------------------------------------|----------|
| Ax = Area of the characteristic ion for the compound being measured    | 3122498  |
| Cis = Concentration of the specific internal standard (ug/L)           | 25       |
| D = Dilution factor for sample as a multiplier ( 10x = 10)             | 1        |
| Ais = Area of the characteristic ion of the specific internal standard | 611048   |
| RF = Average RF from the ICAL                                          | 1.004    |
| Ws = Weight of sample purged (g)                                       | 5        |
| Wn = Nominal purge weight (g) ( 5.0 g)                                 | 5        |
| Cx = Concentration of the compound in the sample being measured (ug/L) | 127.2428 |

Dry weight correction:

|                        |          |
|------------------------|----------|
| Percent solids (PCT_S) | 50       |
| Cd = (Cx) (100)/PCT_S  | 254.4856 |

\* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

### 4.0 Concentration from Linear Regression

#### Step 1: Retrieve Curve Data From Plot, $y = mx + b$

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642



**Step 2: Calculate y from Quantitation Report**

$$y = 86550/593147 = 0.1459$$

**Step 3: Solve for x**

$$x = (y - b)/m = [(0.1459 - (-0.00642))/0.213] = 0.7152$$

**Step 4: Solve for analyte concentration Cx**

$$Cx = Cis (x) = (25.0)(0.7152) = 17.88$$

**Example Spreadsheet Calculation:**

|                                 |                 |
|---------------------------------|-----------------|
| Slope from curve, m:            | <b>0.213</b>    |
| Intercept from curve, b:        | <b>-0.00642</b> |
| Area of analyte, Ax:            | <b>86550</b>    |
| Area of Internal Standard, Ais: | <b>593147</b>   |
| Concentration of IS, Cis        | <b>25.00</b>    |
| Response Ratio:                 | <b>0.145917</b> |
| Amount Ratio:                   | <b>0.715195</b> |
| Concentration:                  | <b>17.87988</b> |
| Units of Internal Standard:     | <b>ug/L</b>     |

**5.0 Concentration from Quadratic Regression****Step 1 - Retrieve Curve Data from Plot,  $y = Ax^2 + Bx + C$** 

Where:

$$Ax^2 + Bx + (C - y) = 0$$

A, B, C = constants from the ICAL quadratic regression

y = Response ratio = Area of analyte/Area of internal standard (IS)

x = Amount ratio = Concentration of analyte/concentration of IS

**Step 2: Calculate y from Quantitation Report**

$$y = Ax/Ais$$

**Step 3: Solve for x using the quadratic formula**

$$Ax^2 + Bx + C - y = 0$$

$$x = \frac{b \pm \sqrt{(b^2 - 4a(c - y))}}{2a} \quad (\text{Two possible solutions})$$

**Step 4: Solve for analyte concentration Cx**

$$Cx = (Cis)(\text{Amount ratio})$$

**Example Spreadsheet Calculation:**

|                                           |                                   |
|-------------------------------------------|-----------------------------------|
| Value of A from plot:                     | <b>-0.00629</b>                   |
| Value of B from plot:                     | <b>0.511</b>                      |
| Value of C from plot:                     | <b>-0.0276</b>                    |
| Area of unknown from quantitation report: | <b>293821</b>                     |
| Area of IS from quantitation report:      | <b>784848</b>                     |
| Response ratio, y:                        | <b>0.374367</b>                   |
| C - y:                                    | <b>-0.40197</b>                   |
| Root 1 - Computed amount ratio, X1:       | <b>80.44567</b>                   |
| Root 2 - Computed amount ratio, X2:       | <b>0.794396</b> use this solution |
| Concentration of IS, Cis:                 | <b>25.00</b>                      |
| Concentration of analyte, Cx:             | <b>19.86</b> ug/L                 |

Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS10 Dataset: 010511  
 Analyst1: TMB Analyst2: NA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 624 SOP: MSV10 Rev: 8  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12  
 Maintenance Log ID: 36022

Internal Standard: STD43292 Surrogate Standard: STD43293  
 CCV: STD43184 LCS: STD43281 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG353160; WG353219

Comments:

| Seq. | File ID  | Sample Information                      | pH | Mat | Dil | Reference | Date/Time      |
|------|----------|-----------------------------------------|----|-----|-----|-----------|----------------|
| 1    | 10M84824 | RINSE                                   | NA | 1   | 1   |           | 01/05/11 09:32 |
| 2    | 10M84825 | WG353160-01 50ng BFB STD 8260           | NA | 1   | 1   | STD43280  | 01/05/11 10:05 |
| 3    | 10M84826 | WG353160-01 50ng BFB STD 8260           | NA | 1   | 1   | STD43280  | 01/05/11 10:18 |
| 4    | 10M84827 | WG353160-02 5ug/L A9 STD 8260           | NA | 1   | 1   | STD43184  | 01/05/11 10:44 |
| 5    | 10M84828 | WG353160-03 20ug/L A9 STD 8260          | NA | 1   | 1   | STD43184  | 01/05/11 11:14 |
| 6    | 10M84829 | WG353160-04 50ug/L A9 STD 8260          | NA | 1   | 1   | STD43184  | 01/05/11 11:44 |
| 7    | 10M84830 | WG353160-05 100ug/L A9 STD 8260         | NA | 1   | 1   | STD43184  | 01/05/11 12:14 |
| 8    | 10M84831 | WG353160-06 200ug/L A9 STD 8260         | NA | 1   | 1   | STD43184  | 01/05/11 12:44 |
| 9    | 10M84832 | WG353160-07 300ug/L A9 STD 8260         | NA | 1   | 1   | STD43184  | 01/05/11 13:14 |
| 10   | 10M84833 | WG353160-08 400ug/L A9 STD 8260         | NA | 1   | 1   | STD43184  | 01/05/11 13:44 |
| 11   | 10M84834 | WG353160-09 500ug/L A9 STD 8260         | NA | 1   | 1   | STD43184  | 01/05/11 14:15 |
| 12   | 10M84835 | RINSE                                   | NA | 1   | 1   |           | 01/05/11 14:45 |
| 13   | 10M84836 | RINSE                                   | NA | 1   | 1   |           | 01/05/11 15:15 |
| 14   | 10M84837 | WG353160-10 100ug/L ALT SRC STD 826     | NA | 1   | 1   | STD43281  | 01/05/11 15:45 |
| 15   | 10M84838 | RINSE                                   | NA | 1   | 1   |           | 01/05/11 16:16 |
| 16   | 10M84839 | L11010001-01 A9 LOD 826-SPE             | NA | 1   | 1   | STD43184  | 01/05/11 16:46 |
| 18   | 10M84841 | L11010006-02 A9 MDL 826-SPE             | NA | 1   | 1   | STD43184  | 01/05/11 17:47 |
| 19   | 10M84842 | L11010006-03 A9 MDL 826-SPE             | NA | 1   | 1   | STD43184  | 01/05/11 18:17 |
| 20   | 10M84843 | L11010006-04 A9 MDL 826-SPE             | NA | 1   | 1   | STD43184  | 01/05/11 18:47 |
| 21   | 10M84844 | L11010006-05 A9 MDL 826-SPE             | NA | 1   | 1   | STD43184  | 01/05/11 19:17 |
| 22   | 10M84845 | L11010006-06 A9 MDL 826-SPE             | NA | 1   | 1   | STD43184  | 01/05/11 19:48 |
| 23   | 10M84846 | L11010006-07 A9 MDL 826-SPE             | NA | 1   | 1   | STD43184  | 01/05/11 20:18 |
| 24   | 10M84847 | WG353219-02 100ug/L LCS P\A STD 826     | NA | 1   | 1   | STD43281  | 01/05/11 20:48 |
| 25   | 10M84848 | WG353219-03 100ug/L LCSDUP P\A STD      | NA | 1   | 1   | STD43281  | 01/05/11 21:18 |
| 26   | 10M84849 | RINSE                                   | NA | 1   | 1   |           | 01/05/11 21:48 |
| 27   | 10M84840 | L11010003-01 A9 LOQ 826-SPE (also 006-C | NA | 1   | 1   | STD43184  | 01/05/11 17:16 |

Comments

| Seq.              | Rerun | Dil. | Reason | Analytes |
|-------------------|-------|------|--------|----------|
| 2                 | X     |      |        |          |
| File ID: 10M84825 |       |      |        |          |
| Tune failed, DNR. |       |      |        |          |

Approved: January 10, 2011

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## Microbac Laboratories Inc.

## Instrument Run Log

Instrument: HPMS8 Dataset: 020311  
 Analyst1: MES Analyst2: MDA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 624 SOP: MSV10 Rev: 8  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12

Maintenance Log ID: 36350

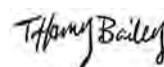
Internal Standard: STD43472 Surrogate Standard: STD43472  
 CCV: STD43791,STD43627 LCS: STD43592,STD43281 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG355612,WG355674

Comments: 

| Seq. | File ID  | Sample Information                | pH | Mat | Dil | Reference | Date/Time      |
|------|----------|-----------------------------------|----|-----|-----|-----------|----------------|
| 1    | 8M367705 | WG355612-01 50NG BFB STD 8260     | NA | 1   | 1   | STD43280  | 02/03/11 07:59 |
| 2    | 8M367706 | WG355612-02 5ug/L APPIX STD       | NA | 1   | 1   | STD43627  | 02/03/11 08:24 |
| 3    | 8M367707 | WG355612-03 20 ug/L APPIX STD     | NA | 1   | 1   | STD43627  | 02/03/11 08:55 |
| 4    | 8M367708 | WG355612-04 50 ug/L APPIX STD     | NA | 1   | 1   | STD43627  | 02/03/11 09:27 |
| 5    | 8M367709 | WG355612-05 100 ug/L APPIX STD    | NA | 1   | 1   | STD43627  | 02/03/11 09:58 |
| 6    | 8M367710 | WG355612-06 200 ug/L APPIX STD    | NA | 1   | 1   | STD43627  | 02/03/11 10:30 |
| 7    | 8M367711 | WG355612-07 300 ug/L APPIX STD    | NA | 1   | 1   | STD43627  | 02/03/11 11:01 |
| 8    | 8M367712 | WG355612-08 400 ug/L APPIX STD    | NA | 1   | 1   | STD43627  | 02/03/11 11:32 |
| 9    | 8M367713 | WG355612-09 500 ug/L APPIX STD    | NA | 1   | 1   | STD43627  | 02/03/11 12:04 |
| 10   | 8M367714 | RINSE                             | NA | 1   | 1   |           | 02/03/11 12:35 |
| 11   | 8M367715 | WG355612-10 100ug/L ALT SOURCE    | NA | 1   | 1   | STD43281  | 02/03/11 13:06 |
| 12   | 8M367716 | WG355672-01 50NG BFB STD 8260     | NA | 1   | 1   | STD43280  | 02/03/11 13:34 |
| 13   | 8M367717 | WG355672-02 50ug/L WATER STD 8260 | NA | 1   | 1   | STD43791  | 02/03/11 14:00 |
| 14   | 8M367718 | RINSE                             | NA | 1   | 1   |           | 02/03/11 14:31 |
| 15   | 8M367719 | WG355674-01 VBLK0203 BLANK 8260   | NA | 1   | 1   |           | 02/03/11 15:03 |
| 16   | 8M367720 | WG355674-02 20ug/L LCS 8260       | NA | 1   | 1   | STD43592  | 02/03/11 15:34 |
| 17   | 8M367721 | WG355674-03 20ug/L LCSDUP 8260    | NA | 1   | 1   | STD43592  | 02/03/11 16:06 |
| 18   | 8M367722 | RINSE                             | NA | 1   | 1   |           | 02/03/11 16:37 |
| 19   | 8M367723 | WG355674-04 20ug/L PA 8260        | NA | 1   | 1   | STD43592  | 02/03/11 17:08 |
| 20   | 8M367724 | WG355674-05 20ug/L PA 8260        | NA | 1   | 1   | STD43592  | 02/03/11 17:39 |
| 21   | 8M367725 | WG355674-06 20ug/L PA 8260        | NA | 1   | 1   | STD43592  | 02/03/11 18:11 |
| 22   | 8M367726 | WG355674-07 20ug/L PA 8260        | NA | 1   | 1   | STD43592  | 02/03/11 18:42 |
| 23   | 8M367727 | WG355674-08 100ug/L APPIX PA      | NA | 1   | 1   | STD43361  | 02/03/11 19:13 |
| 24   | 8M367728 | WG355674-09 100ug/L APPIX PA      | NA | 1   | 1   | STD43361  | 02/03/11 19:45 |
| 25   | 8M367729 | WG355674-10 100ug/L APPIX PA      | NA | 1   | 1   | STD43361  | 02/03/11 20:16 |
| 26   | 8M367730 | WG355674-11 100ug/L APPIX PA      | NA | 1   | 1   | STD43361  | 02/03/11 20:47 |
| 27   | 8M367731 | RINSE                             | NA | 1   | 1   |           | 02/03/11 21:19 |
| 28   | 8M367732 | L11020081-06 A 826-SPE            | <2 | 1   | 1   |           | 02/03/11 21:50 |
| 29   | 8M367733 | L11020081-05 A 826-SPE            | <2 | 1   | 1   |           | 02/03/11 22:21 |
| 30   | 8M367734 | L11020087-01 A 10X 826-SPE5       | <2 | 1   | 10  |           | 02/03/11 22:53 |
| 31   | 8M367735 | RINSE                             | NA | 1   | 1   |           | 02/03/11 23:24 |
| 32   | 8M367736 | RINSE                             | NA | 1   | 1   |           | 02/03/11 23:55 |
| 33   | 8M367737 | WG355674-12 624 BLANK             | NA | 2   | 1   |           | 02/04/11 00:27 |

Approved: February 07, 2011

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## Microbac Laboratories Inc.

## Instrument Run Log

Instrument: HPMS8      Dataset: 020311  
 Analyst1: MES      Analyst2: MDA  
 Method: 8260B      SOP: MSV01      Rev: 14  
 Method: 624      SOP: MSV10      Rev: 8  
 Method: 5030B/5030C/5035A      SOP: PAT01      Rev: 12  
 Maintenance Log ID: 36350

Internal Standard: STD43472      Surrogate Standard: STD43472  
 CCV: STD43791,STD43627      LCS: STD43592,STD43281      MS/MSD: NA  
 Column 1 ID: RTX502.2      Column 2 ID: NA  
 Workgroups: WG355612,WG355674

Comments:

| Seq. | File ID  | Sample Information       | pH | Mat | Dil | Reference | Date/Time      |
|------|----------|--------------------------|----|-----|-----|-----------|----------------|
| 34   | 8M367738 | L11020085-01 A 624-SPE6  | <2 | 2   | 1   |           | 02/04/11 00:58 |
| 35   | 8M367739 | L11020085-02 A 624-SPE8  | <2 | 2   | 1   |           | 02/04/11 01:29 |
| 36   | 8M367740 | L11020085-03 A 624-SPE7  | <2 | 2   | 1   |           | 02/04/11 02:00 |
| 37   | 8M367741 | L11020085-04 A 624-SPE7  | <2 | 2   | 1   |           | 02/04/11 02:31 |
| 38   | 8M367742 | L11020085-05 A 624-SPE7  | <2 | 2   | 1   |           | 02/04/11 03:03 |
| 39   | 8M367743 | L11020085-06 A 624-SPE10 | <2 | 2   | 1   |           | 02/04/11 03:34 |
| 40   | 8M367744 | L11020085-07 A 624-SPE10 | <2 | 2   | 1   |           | 02/04/11 04:05 |
| 41   | 8M367745 | RINSE                    | NA | 1   | 1   |           | 02/04/11 04:37 |
| 42   | 8M367746 | RINSE                    | NA | 1   | 1   |           | 02/04/11 05:08 |
| 43   | 8M367747 | RINSE                    | NA | 1   | 1   |           | 02/04/11 05:39 |

Comments

| Seq.                                            | Rerun | Dil. | Reason                   | Analytes            |
|-------------------------------------------------|-------|------|--------------------------|---------------------|
| 30                                              |       |      |                          |                     |
| File ID:8M367734                                |       |      |                          |                     |
| Too foamy to analyze at a higher concentration. |       |      |                          |                     |
| 38                                              | X     | 50   | Over Calibration Range   | cis-1,2-DCE and TCE |
| File ID:8M367742                                |       |      |                          |                     |
| 39                                              | X     | 1    | Carry-over contamination |                     |
| File ID:8M367743                                |       |      |                          |                     |
| DNR                                             |       |      |                          |                     |

Approved: February 07, 2011

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*Tiffany Bailey*



## Microbac Laboratories Inc.

## Instrument Run Log

Instrument: HPMS10 Dataset: 040611  
 Analyst1: TMB Analyst2: NA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 624 SOP: MSV10 Rev: 8  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12

Maintenance Log ID: 37004

Internal Standard: STD44563 Surrogate Standard: STD44668  
 CCV: STD44777 LCS: STD44791 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG360930

Comments: 

| Seq. | File ID  | Sample Information                  | pH | Mat | Dil | Reference | Date/Time      |
|------|----------|-------------------------------------|----|-----|-----|-----------|----------------|
| 1    | 10M86745 | RINSE                               | NA | 1   | 1   |           | 04/06/11 09:13 |
| 2    | 10M86746 | WG360930-01 50ng BFB STD 8260       | NA | 1   | 1   | STD44337  | 04/06/11 09:49 |
| 3    | 10M86747 | WG360930-02 0.3ug/L STD 8260        | NA | 1   | 1   | STD44777  | 04/06/11 10:15 |
| 4    | 10M86748 | WG360930-03 0.4ug/L STD 8260        | NA | 1   | 1   | STD44777  | 04/06/11 10:46 |
| 5    | 10M86749 | WG360930-04 1ug/L STD 8260          | NA | 1   | 1   | STD44777  | 04/06/11 11:18 |
| 6    | 10M86750 | WG360930-05 2ug/L STD 8260          | NA | 1   | 1   | STD44777  | 04/06/11 11:49 |
| 7    | 10M86751 | WG360930-06 5ug/L STD 8260          | NA | 1   | 1   | STD44777  | 04/06/11 12:21 |
| 8    | 10M86752 | WG360930-07 20ug/L STD 8260         | NA | 1   | 1   | STD44777  | 04/06/11 12:52 |
| 9    | 10M86753 | WG360930-08 50ug/L STD 8260         | NA | 1   | 1   | STD44777  | 04/06/11 13:24 |
| 10   | 10M86754 | WG360930-09 100ug/L STD 8260        | NA | 1   | 1   | STD44777  | 04/06/11 13:55 |
| 11   | 10M86755 | WG360930-10 200ug/L STD 8260        | NA | 1   | 1   | STD44777  | 04/06/11 14:27 |
| 12   | 10M86756 | WG360930-11 300ug/L STD 8260        | NA | 1   | 1   | STD44777  | 04/06/11 14:58 |
| 13   | 10M86757 | RINSE                               | NA | 1   | 1   |           | 04/06/11 15:30 |
| 14   | 10M86758 | RINSE                               | NA | 1   | 1   |           | 04/06/11 16:01 |
| 15   | 10M86759 | WG360930-12 50ug/L ALT SRC STD 8260 | NA | 1   | 1   | STD44791  | 04/06/11 16:33 |
| 16   | 10M86760 | RINSE                               | NA | 1   | 1   |           | 04/06/11 17:05 |
| 17   | 10M86761 | GASES RINSE                         | NA | 1   | 1   |           | 04/06/11 17:36 |

Approved: April 08, 2011

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## Microbac Laboratories Inc.

## Instrument Run Log

Instrument: HPMS11 Dataset: 040811  
 Analyst1: MES Analyst2: NA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 624 SOP: MSV10 Rev: 8  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12

Maintenance Log ID: 37038

Internal Standard: STD44812 Surrogate Standard: STD44401  
 CCV: STD44907 LCS: STD44791 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG361240,WG361163

Comments: 0002-01 RR for methylene chloride,1-BP,paraldehyde,BCM,DBM,hexachlorobutadiene, and cyclohexanone  
0004-01 RR for methylene chloride, 1-BP, paraldehyde

| Seq. | File ID  | Sample Information                  | pH | Mat | Dil | Reference | Date/Time      |
|------|----------|-------------------------------------|----|-----|-----|-----------|----------------|
| 1    | 11M73564 | WG361240-01 BFB 50ng 8260           | NA | 1   | 1   | STD44337  | 04/08/11 12:16 |
| 2    | 11M73565 | WG361240-02 50ug/L CCV 8260         | NA | 1   | 1   | STD44870  | 04/08/11 12:41 |
| 3    | 11M73566 | WG361240-02 50ug/L CCV 8260         | NA | 1   | 1   | STD44870  | 04/08/11 13:19 |
| 4    | 11M73567 | WG361240-01 BFB 50ng 8260           | NA | 1   | 1   | STD44337  | 04/08/11 14:03 |
| 5    | 11M73568 | WG361240-02 50ug/L CCV 8260         | NA | 1   | 1   | STD44870  | 04/08/11 14:28 |
| 6    | 11M73569 | WG361240-02 50ug/L CCV 8260         | NA | 1   | 1   | STD44870  | 04/08/11 15:01 |
| 7    | 11M73570 | RINSE                               | NA | 1   | 1   |           | 04/08/11 15:36 |
| 8    | 11M73571 | RINSE                               | NA | 1   | 1   |           | 04/08/11 16:06 |
| 9    | 11M73572 | RINSE                               | NA | 1   | 1   |           | 04/08/11 16:54 |
| 10   | 11M73573 | WG361240-01 50NG BFB STD 8260       | NA | 1   | 1   | STD44337  | 04/08/11 17:24 |
| 11   | 11M73574 | WG361240-02 0.3ug/L WATER STD 8260  | NA | 1   | 1   | STD44907  | 04/08/11 17:49 |
| 12   | 11M73575 | WG361240-03 0.4 ug/L WATER STD 8260 | NA | 1   | 1   | STD44907  | 04/08/11 18:20 |
| 13   | 11M73576 | WG361240-04 1 ug/L WATER STD 8260   | NA | 1   | 1   | STD44907  | 04/08/11 18:51 |
| 14   | 11M73577 | WG361240-05 2 ug/L WATER STD 8260   | NA | 1   | 1   | STD44907  | 04/08/11 19:21 |
| 15   | 11M73578 | WG361240-06 5 ug/L WATER STD 8260   | NA | 1   | 1   | STD44907  | 04/08/11 19:52 |
| 16   | 11M73579 | WG361240-07 20 ug/L WATER STD 8260  | NA | 1   | 1   | STD44907  | 04/08/11 20:22 |
| 17   | 11M73580 | WG361240-08 50 ug/L WATER STD 8260  | NA | 1   | 1   | STD44907  | 04/08/11 20:53 |
| 18   | 11M73581 | WG361240-09 100 ug/L WATER STD 8260 | NA | 1   | 1   | STD44907  | 04/08/11 21:23 |
| 19   | 11M73582 | WG361240-10 200 ug/L WATER STD 8260 | NA | 1   | 1   | STD44907  | 04/08/11 21:54 |
| 20   | 11M73583 | WG361240-11 300 ug/L WATER STD 8260 | NA | 1   | 1   | STD44907  | 04/08/11 22:25 |
| 21   | 11M73584 | RINSE                               | NA | 1   | 1   |           | 04/08/11 22:56 |
| 22   | 11M73585 | WG361240-12 50ug/L ALT SOURCE       | NA | 1   | 1   | STD44791  | 04/08/11 23:26 |
| 23   | 11M73586 | WG361163-01 VBLK0408 BLANK 8260     | NA | 1   | 1   |           | 04/08/11 23:57 |
| 24   | 11M73587 | L11020003-12 MTHD DEVELOPMNT BLAN   | NA | 1   | 1   |           | 04/09/11 00:28 |
| 25   | 11M73588 | L11020003-13 MTHD DEVELOPMNT BLAN   | NA | 1   | 1   |           | 04/09/11 00:59 |
| 26   | 11M73589 | L11040002-01 QTRLY LOD              | NA | 1   | 1   | STD44872  | 04/09/11 01:30 |
| 27   | 11M73590 | L11040004-01 QTRLY LOD              | NA | 1   | 1   | STD44872  | 04/09/11 02:00 |

Comments

| Seq. | Rerun | Dil. | Reason | Analytes |
|------|-------|------|--------|----------|
| 2    |       |      |        |          |

Approved: April 12, 2011

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS11 Dataset: 040811  
 Analyst1: MES Analyst2: NA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 624 SOP: MSV10 Rev: 8  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12  
 Maintenance Log ID: 37038

Internal Standard: STD44812 Surrogate Standard: STD44401  
 CCV: STD44907 LCS: STD44791 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG361240, WG361163

Comments: 0002-01 RR for methylene chloride, 1-BP, paraldehyde, BCM, DBM, hexachlorobutadiene, and cyclohexanone  
0004-01 RR for methylene chloride, 1-BP, paraldehyde

Comments

| Seq.             | Rerun | Dil. | Reason                                   | Analytes |
|------------------|-------|------|------------------------------------------|----------|
| File ID:11M73565 |       |      |                                          |          |
|                  |       |      | RR, vc is high.                          |          |
| 3                |       |      |                                          |          |
| File ID:11M73566 |       |      |                                          |          |
|                  |       |      | Restart, vc is high. Increasing voltage. |          |
| 5                |       |      |                                          |          |
| File ID:11M73568 |       |      |                                          |          |
|                  |       |      | RR, vc is high.                          |          |
| 6                |       |      |                                          |          |
| File ID:11M73569 |       |      |                                          |          |
|                  |       |      | RR, vc is high. Running another curve.   |          |

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS8      Dataset: 041511  
 Analyst1: MES      Analyst2: NA  
 Method: 8260B      SOP: MSV01      Rev: 14  
 Method: 5030B/5030C/5035A      SOP: PAT01      Rev: 12  
 Method: 624      SOP: MSV10      Rev: 8  
 Maintenance Log ID: 37142

Internal Standard: STD45044      Surrogate Standard: STD45044  
 CCV: STD45045      LCS: STD45031      MS/MSD: NA  
 Column 1 ID: RTX502.2      Column 2 ID: NA  
 Workgroups: WG362061, WG362062

Comments:

| Seq. | File ID  | Sample Information                  | pH | Mat | Dil | Reference | Date/Time      |
|------|----------|-------------------------------------|----|-----|-----|-----------|----------------|
| 1    | 8M369520 | DIRECT INJECT IS/SS                 | NA | 1   | 1   |           | 04/15/11 11:39 |
| 2    | 8M369521 | DIRECT INJECT IS/SS                 | NA | 1   | 1   |           | 04/15/11 12:03 |
| 3    | 8M369522 | DIRECT INJECT IS/SS                 | NA | 1   | 1   |           | 04/15/11 12:27 |
| 4    | 8M369523 | DIRECT INJECT IS/SS                 | NA | 1   | 1   |           | 04/15/11 12:54 |
| 5    | 8M369524 | RINSE SWITCHED TO FILAMENT 1        | NA | 1   | 1   |           | 04/15/11 14:00 |
| 6    | 8M369525 | RINSE SWITCHED TO FILAMENT 1        | NA | 1   | 1   |           | 04/15/11 15:22 |
| 7    | 8M369526 | RINSE                               | NA | 1   | 1   |           | 04/15/11 15:53 |
| 8    | 8M369527 | RINSE                               | NA | 1   | 1   |           | 04/15/11 16:25 |
| 9    | 8M369528 | RINSE                               | NA | 1   | 1   |           | 04/15/11 16:57 |
| 10   | 8M369529 | OTHER FILAMENT                      | NA | 1   | 1   |           | 04/15/11 17:25 |
| 11   | 8M369530 | OTHER FILAMENT retuned              | NA | 1   | 1   |           | 04/15/11 17:47 |
| 12   | 8M369531 | OTHER FILAMENT retuned              | NA | 1   | 1   |           | 04/15/11 18:07 |
| 13   | 8M369532 | OTHER FILAMENT retuned              | NA | 1   | 1   |           | 04/15/11 18:19 |
| 14   | 8M369533 | WG362061-01 50NG BFB STD 8260       | NA | 1   | 1   | STD44908  | 04/15/11 18:37 |
| 15   | 8M369534 | WG362061-02 0.3ug/L WATER STD 8260  | NA | 1   | 1   | STD45045  | 04/15/11 19:03 |
| 16   | 8M369535 | WG362061-03 0.4ug/L WATER STD 8260  | NA | 1   | 1   | STD45045  | 04/15/11 19:35 |
| 17   | 8M369536 | WG362061-04 1 ug/L WATER STD 8260   | NA | 1   | 1   | STD45045  | 04/15/11 20:06 |
| 18   | 8M369537 | WG362061-02 0.3 ug/L WATER STD 8260 | NA | 1   | 1   | STD45045  | 04/15/11 20:39 |
| 19   | 8M369538 | WG362061-04 2 ug/L WATER STD 8260   | NA | 1   | 1   | STD45045  | 04/15/11 21:11 |
| 20   | 8M369539 | WG362061-05 5 ug/L WATER STD 8260   | NA | 1   | 1   | STD45045  | 04/15/11 21:42 |
| 21   | 8M369540 | WG362061-06 20 ug/L WATER STD 8260  | NA | 1   | 1   | STD45045  | 04/15/11 22:13 |
| 22   | 8M369541 | WG362061-07 50 ug/L WATER STD 8260  | NA | 1   | 1   | STD45045  | 04/15/11 22:45 |
| 23   | 8M369542 | WG362061-08 100 ug/L WATER STD 8260 | NA | 1   | 1   | STD45045  | 04/15/11 23:16 |
| 24   | 8M369543 | WG362061-09 200 ug/L WATER STD 8260 | NA | 1   | 1   | STD45045  | 04/15/11 23:47 |
| 25   | 8M369544 | WG362061-10 300 ug/L WATER STD 8260 | NA | 1   | 1   | STD45045  | 04/16/11 00:19 |
| 26   | 8M369545 | RINSE                               | NA | 1   | 1   |           | 04/16/11 00:49 |
| 27   | 8M369546 | WG362061-11 50ug/L ALT SOURCE       | NA | 1   | 1   | STD45031  | 04/16/11 01:21 |
| 28   | 8M369547 | RINSE                               | NA | 1   | 1   |           | 04/16/11 01:52 |
| 29   | 8M369548 | WG362062-01 VBLK0415 BLANK 8260     | NA | 1   | 1   |           | 04/16/11 02:23 |
| 30   | 8M369549 | L11040002-01 826-SPE                | NA | 1   | 1   | STD45076  | 04/16/11 02:54 |
| 31   | 8M369550 | L11040004-01 826-SPE                | NA | 1   | 1   | STD45076  | 04/16/11 03:25 |

Comments

Approved: April 26, 2011

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS8 Dataset: 041511  
 Analyst1: MES Analyst2: NA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12  
 Method: 624 SOP: MSV10 Rev: 8  
 Maintenance Log ID: 37142

Internal Standard: STD45044 Surrogate Standard: STD45044  
 CCV: STD45045 LCS: STD45031 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG362061, WG362062

Comments:

Comments

| Seq.                                 | Rerun | Dil. | Reason | Analytes |
|--------------------------------------|-------|------|--------|----------|
| 15                                   |       |      |        |          |
| File ID: 8M369534                    |       |      |        |          |
| RR, DNR.                             |       |      |        |          |
| 17                                   |       |      |        |          |
| File ID: 8M369536                    |       |      |        |          |
| DNR-methylene chloride is very high. |       |      |        |          |
| 31                                   |       |      |        |          |
| File ID: 8M369550                    |       |      |        |          |
| DNR-appears to be spiked wrong.      |       |      |        |          |

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS11 Dataset: 042711  
 Analyst1: FJB Analyst2: NA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12  
 Method: 624 SOP: MSV10 Rev: 8  
 Maintenance Log ID: 37274

Internal Standard: STD45144 Surrogate Standard: STD45005  
 CCV: STD45173, STD44656 LCS: STD45193, STD44909 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG363112, WG363094

Comments:

| Seq. | File ID  | Sample Information              | pH | Mat | Dil | Reference | Date/Time      |
|------|----------|---------------------------------|----|-----|-----|-----------|----------------|
| 1    | 11M73927 | WG363093-01 BFB 50ng 8260       | NA | 1   | 1   | STD44908  | 04/27/11 09:27 |
| 2    | 11M73928 | WG363093-02 50ug/L CCV 8260     | NA | 1   | 1   | STD45173  | 04/27/11 09:52 |
| 3    | 11M73929 | WG363093-02 50ug/L CCV 8260     | NA | 1   | 1   | STD45173  | 04/27/11 10:27 |
| 4    | 11M73930 | WG363112-01 5ug/L STD A9        | NA | 1   | 1   | STD44656  | 04/27/11 10:57 |
| 5    | 11M73931 | WG363112-02 20ug/L STD A9       | NA | 1   | 1   | STD44656  | 04/27/11 11:28 |
| 6    | 11M73932 | WG363112-03 50ug/L STD A9       | NA | 1   | 1   | STD44656  | 04/27/11 12:02 |
| 7    | 11M73933 | WG363112-04 100ug/L STD A9      | NA | 1   | 1   | STD44656  | 04/27/11 12:33 |
| 8    | 11M73934 | WG363112-05 200ug/L STD A9      | NA | 1   | 1   | STD44656  | 04/27/11 13:08 |
| 9    | 11M73935 | WG363112-06 300ug/L STD A9      | NA | 1   | 1   | STD44656  | 04/27/11 14:01 |
| 10   | 11M73936 | WG363112-07 400ug/L STD A9      | NA | 1   | 1   | STD44656  | 04/27/11 14:32 |
| 11   | 11M73937 | WG363112-08 500ug/L STD A9      | NA | 1   | 1   | STD44656  | 04/27/11 15:03 |
| 12   | 11M73938 | RINSE                           | NA | 1   | 1   |           | 04/27/11 15:33 |
| 13   | 11M73939 | WG363112-09 100ug/L ALT SRC A9  | NA | 1   | 1   | STD44909  | 04/27/11 16:04 |
| 14   | 11M73940 | WG363094-01 VBLK0427 BLANK 8260 | NA | 1   | 1   |           | 04/27/11 16:35 |
| 15   | 11M73941 | L11040002-01 LOD 8260           | NA | 1   | 1   | STD44872  | 04/27/11 17:06 |

Comments

| Seq.                              | Rerun | Dil. | Reason | Analytes |
|-----------------------------------|-------|------|--------|----------|
| 2                                 | X     |      |        |          |
| File ID: 11M73928                 |       |      |        |          |
| VC high                           |       |      |        |          |
| 3                                 |       |      |        |          |
| File ID: 11M73929                 |       |      |        |          |
| VC high                           |       |      |        |          |
| 13                                |       |      |        |          |
| File ID: 11M73939                 |       |      |        |          |
| cyclohexanone is extremely high   |       |      |        |          |
| 15                                |       |      |        |          |
| File ID: 11M73941                 |       |      |        |          |
| replacing first LOD run on 4/8/11 |       |      |        |          |

Approved: April 28, 2011

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS10 Dataset: 050211  
 Analyst1: TMB Analyst2: NA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 624 SOP: MSV10 Rev: 8  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12  
 Maintenance Log ID: 37326

Internal Standard: STD45120 Surrogate Standard: STD45169  
 CCV: STD45173 LCS: STD45193 MS/MSD: STD45193  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG363418

Comments:

| Seq. | File ID  | Sample Information                 | pH | Mat | Dil | Reference | Date/Time      |
|------|----------|------------------------------------|----|-----|-----|-----------|----------------|
| 1    | 10M87280 | RINSE                              | NA | 1   | 1   |           | 05/02/11 09:02 |
| 2    | 10M87281 | RINSE                              | NA | 1   | 1   |           | 05/02/11 09:34 |
| 3    | 10M87282 | WG363417-01 50ng BFB STD 8260      | NA | 1   | 1   | STD44908  | 05/02/11 10:14 |
| 4    | 10M87283 | WG363417-01 50ng BFB STD 8260      | NA | 1   | 1   | STD44908  | 05/02/11 12:24 |
| 5    | 10M87284 | WG363417-02 50ug/L CCV STD 8260    | NA | 1   | 1   | STD45173  | 05/02/11 12:49 |
| 6    | 10M87285 | WG363417-02 50ug/L CCV STD 8260    | NA | 1   | 1   | STD45173  | 05/02/11 13:21 |
| 7    | 10M87286 | RINSE                              | NA | 1   | 1   |           | 05/02/11 13:52 |
| 8    | 10M87287 | WG363418-01 VBLK0502 BLANK STD 826 | NA | 1   | 1   |           | 05/02/11 14:24 |
| 9    | 10M87288 | WG363418-02 20ug/L LCS STD 8260    | NA | 1   | 1   | STD45193  | 05/02/11 14:56 |
| 10   | 10M87289 | L11040972-17 A MS 826-SPE1         | <2 | 1   | 1   | STD45193  | 05/02/11 15:27 |
| 11   | 10M87290 | L11040972-19 A MSD 826-SPE1        | <2 | 1   | 1   | STD45193  | 05/02/11 15:59 |
| 12   | 10M87291 | L11050025-18 A 826-SPE1            | <2 | 1   | 1   |           | 05/02/11 16:30 |
| 13   | 10M87292 | L11050025-04 A 826-SPE1            | <2 | 1   | 1   |           | 05/02/11 17:02 |
| 14   | 10M87293 | L11050025-05 A 826-SPE1            | <2 | 1   | 1   |           | 05/02/11 17:33 |
| 15   | 10M87294 | L11050025-07 A 826-SPE1            | <2 | 1   | 1   |           | 05/02/11 18:05 |
| 16   | 10M87295 | L11050025-11 A 826-SPE1            | <2 | 1   | 1   |           | 05/02/11 18:37 |
| 17   | 10M87296 | L11050025-12 A 826-SPE1            | <2 | 1   | 1   |           | 05/02/11 19:09 |
| 18   | 10M87297 | L11050025-13 A 826-SPE1            | <2 | 1   | 1   |           | 05/02/11 19:40 |
| 19   | 10M87298 | L11040972-11 A 826-SPE1            | <2 | 1   | 1   |           | 05/02/11 20:12 |
| 20   | 10M87299 | L11040972-13 A 826-SPE1            | <2 | 1   | 1   |           | 05/02/11 20:43 |
| 21   | 10M87300 | L11040972-15 A 826-SPE1            | <2 | 1   | 1   |           | 05/02/11 21:15 |
| 22   | 10M87301 | L11040972-21 A 826-SPE1            | <2 | 1   | 1   |           | 05/02/11 21:47 |
| 23   | 10M87302 | L11040972-23 A 826-SPE1            | <2 | 1   | 1   |           | 05/02/11 22:19 |
| 24   | 10M87303 | L11040972-25 A 826-SPE1            | <2 | 1   | 1   |           | 05/02/11 22:50 |
| 25   | 10M87304 | L11040972-27 A 826-SPE1            | <2 | 1   | 1   |           | 05/02/11 23:22 |
| 26   | 10M87305 | L11040972-29 A 826-SPE1            | <2 | 1   | 1   |           | 05/02/11 23:54 |
| 27   | 10M87306 | RINSE                              | NA | 1   | 1   |           | 05/03/11 00:25 |
| 28   | 10M87307 | WG363418-06 624 BLANK              | NA | 1   | 1   |           | 05/03/11 00:57 |
| 29   | 10M87308 | L11050026-01 A 624                 | <2 | 2   | 1   |           | 05/03/11 01:29 |
| 30   | 10M87309 | RINSE                              | NA | 1   | 1   |           | 05/03/11 02:00 |
| 31   | 10M87310 | RINSE                              | NA | 1   | 1   |           | 05/03/11 02:32 |

Comments

Approved: May 03, 2011

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS10 Dataset: 050211  
 Analyst1: TMB Analyst2: NA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 624 SOP: MSV10 Rev: 8  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12  
 Maintenance Log ID: 37326

Internal Standard: STD45120 Surrogate Standard: STD45169  
 CCV: STD45173 LCS: STD45193 MS/MSD: STD45193  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG363418

Comments:

Comments

| Seq.                      | Rerun | Dil. | Reason                   | Analytes |
|---------------------------|-------|------|--------------------------|----------|
| 3                         | X     |      |                          |          |
| File ID: 10M87282         |       |      |                          |          |
| Tune failed, DNR.         |       |      |                          |          |
| 5                         | X     |      |                          |          |
| File ID: 10M87284         |       |      |                          |          |
| 2-BUTANONE was low, DNR.  |       |      |                          |          |
| 7                         | X     | 1    | Carry-over contamination |          |
| File ID: 10M87286         |       |      |                          |          |
| Carry over from ccv, DNR. |       |      |                          |          |

Approved: May 03, 2011

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS11 Dataset: 050311  
 Analyst1: TMB Analyst2: NA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12

Maintenance Log ID: 37335

Internal Standard: STD45144 Surrogate Standard: STD45005  
 CCV: STD45173 LCS: STD45193 MS/MSD: STD45193  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG363415

Comments:

| Seq. | File ID  | Sample Information                 | pH | Mat | Dil | Reference | Date/Time      |
|------|----------|------------------------------------|----|-----|-----|-----------|----------------|
| 1    | 11M74026 | WG363413-01 BFB 50ng 8260          | NA | 1   | 1   | STD44908  | 05/03/11 09:10 |
| 2    | 11M74027 | WG363413-02 50ug/L CCV STD 8260    | NA | 1   | 1   | STD45173  | 05/03/11 09:36 |
| 3    | 11M74028 | WG363413-02 50ug/L CCV STD 8260    | NA | 1   | 1   | STD45173  | 05/03/11 10:13 |
| 4    | 11M74029 | RINSE                              | NA | 1   | 1   |           | 05/03/11 10:44 |
| 5    | 11M74030 | WG363415-01 VBLK0503 BLANK STD 826 | NA | 1   | 1   |           | 05/03/11 11:15 |
| 6    | 11M74031 | WG363415-02 20ug/L LCS STD 8260    | NA | 1   | 1   | STD45193  | 05/03/11 11:46 |
| 7    | 11M74032 | L11050025-02 B MS 826-SPE1         | <2 | 1   | 1   | STD45193  | 05/03/11 12:17 |
| 8    | 11M74033 | L11050025-03 A MSD 826-SPE1        | <2 | 1   | 1   | STD45193  | 05/03/11 12:47 |
| 9    | 11M74034 | L11050042-13 A 826-BETX            | <2 | 1   | 1   |           | 05/03/11 13:18 |
| 10   | 11M74035 | L11050042-14 A 826-BETX            | <2 | 1   | 1   |           | 05/03/11 13:49 |
| 11   | 11M74036 | L11050025-01 A 826-SPE1            | <2 | 1   | 1   |           | 05/03/11 14:20 |
| 12   | 11M74037 | L11050025-06 A 826-SPE1            | <2 | 1   | 1   |           | 05/03/11 14:51 |
| 13   | 11M74038 | L11050042-01 A 5X 826-SPE1         | <2 | 1   | 5   |           | 05/03/11 15:21 |
| 14   | 11M74039 | L11050042-02 A 100X 826-SPE1       | <2 | 1   | 100 |           | 05/03/11 15:52 |
| 15   | 11M74040 | L11050042-03 A 50X 826-SPE1        | <2 | 1   | 50  |           | 05/03/11 16:23 |
| 16   | 11M74041 | L11050042-04 A 200X 826-SPE1       | <2 | 1   | 200 |           | 05/03/11 16:54 |
| 17   | 11M74042 | L11050042-05 A 10X 826-SPE1        | 7  | 1   | 10  |           | 05/03/11 17:25 |
| 18   | 11M74043 | L11050042-06 A 100X 826-SPE1       | <2 | 1   | 100 |           | 05/03/11 17:55 |
| 19   | 11M74044 | L11050042-07 A 100X 826-SPE1       | <2 | 1   | 100 |           | 05/03/11 18:26 |
| 20   | 11M74045 | L11050042-08 A 100X 826-SPE1       | <2 | 1   | 100 |           | 05/03/11 18:57 |
| 21   | 11M74046 | L11050042-09 A 200X 826-SPE1       | <2 | 1   | 200 |           | 05/03/11 19:28 |
| 22   | 11M74047 | L11050042-10 A 200X 826-SPE1       | <2 | 1   | 200 |           | 05/03/11 19:59 |
| 23   | 11M74048 | L11050042-11 A 100X 826-SPE1       | <2 | 1   | 100 |           | 05/03/11 20:30 |
| 24   | 11M74049 | L11050042-12 A 200X 826-SPE1       | <2 | 1   | 200 |           | 05/03/11 21:00 |
| 25   | 11M74050 | CCV                                | NA | 1   | 1   |           | 05/03/11 21:31 |
| 26   | 11M74051 | RINSE                              | NA | 1   | 1   |           | 05/03/11 22:02 |
| 27   | 11M74052 | GRO STD                            | NA | 1   | 1   |           | 05/03/11 22:32 |
| 28   | 11M74053 | GRO STD                            | NA | 1   | 1   |           | 05/03/11 23:03 |

Comments

| Seq.              | Rerun | Dil. | Reason | Analytes |
|-------------------|-------|------|--------|----------|
| 2                 |       |      |        |          |
| File ID: 11M74027 |       |      |        |          |

Approved: May 04, 2011

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS11 Dataset: 050311  
 Analyst1: TMB Analyst2: NA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12

Maintenance Log ID: 37335

Internal Standard: STD45144 Surrogate Standard: STD45005  
 CCV: STD45173 LCS: STD45193 MS/MSD: STD45193  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG363415

Comments:

Comments

| Seq.              | Rerun | Dil. | Reason                                       | Analytes                   |
|-------------------|-------|------|----------------------------------------------|----------------------------|
|                   |       |      |                                              |                            |
|                   |       |      | RR, vc is high.                              |                            |
| 3                 |       |      |                                              |                            |
| File ID: 11M74028 |       |      |                                              |                            |
|                   |       |      | vc is still high-running short list samples. |                            |
| 13                | X     | 25   | Over Calibration Range                       | toluene,mp-xylene,o-xylene |
| File ID: 11M74038 |       |      |                                              |                            |
| 14                | X     | 100  |                                              |                            |
| File ID: 11M74039 |       |      |                                              |                            |
|                   |       |      | Rerun to confirm hits.                       |                            |
| 18                | X     | 500  | Over Calibration Range                       | MTBE                       |
| File ID: 11M74043 |       |      |                                              |                            |
| 19                | X     | 1    | Analyzed too dilute                          |                            |
| File ID: 11M74044 |       |      |                                              |                            |
| DNR               |       |      |                                              |                            |

Approved: May 04, 2011

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS10      Dataset: 050511  
Analyst1: TMB      Analyst2: NA  
Method: 8260B      SOP: MSV10      Rev: 14  
Method: 5030B5030C/5035A      SOP: PAT01      Rev: 12

Maintenance Log ID: 37369

Internal Standard: STD45120      Surrogate Standard: STD45169  
CCV: STD45354      LCS: STD45358      MS/MSD: NA  
Column 1 ID: RTX502.2      Column 2 ID: NA  
Workgroups: WG363720

Comments:

| Seq. | File ID  | Sample Information                 | pH | Mat | Dil  | Reference | Date/Time      |
|------|----------|------------------------------------|----|-----|------|-----------|----------------|
| 1    | 10M87367 | WG363719-01 50ng BFB STD 8260      | NA | 1   | 1    | STD44908  | 05/05/11 08:37 |
| 2    | 10M87368 | WG363719-02 50ug/L CCV STD 8260    | NA | 1   | 1    | STD45354  | 05/05/11 09:03 |
| 3    | 10M87369 | WG363719-02 50ug/L CCV STD 8260    | NA | 1   | 1    | STD45354  | 05/05/11 09:34 |
| 4    | 10M87370 | RINSE                              | NA | 1   | 1    |           | 05/05/11 10:06 |
| 5    | 10M87371 | WG363720-01 VBLK0505 BLANK STD 826 | NA | 1   | 1    |           | 05/05/11 10:37 |
| 6    | 10M87372 | WG363720-02 20ug/L LCS STD 8260    | NA | 1   | 1    | STD45358  | 05/05/11 11:09 |
| 7    | 10M87373 | WG363720-03 20ug/L LCSDUP STD 8260 | NA | 1   | 1    | STD45358  | 05/05/11 11:41 |
| 8    | 10M87374 | L11050024-07 A 826-SPE1            | <2 | 1   | 1    |           | 05/05/11 12:12 |
| 9    | 10M87375 | L11050024-06 A 826-SPE1            | <2 | 1   | 1    |           | 05/05/11 12:44 |
| 10   | 10M87376 | L11050024-05 A 826-SPE1            | <2 | 1   | 1    |           | 05/05/11 13:16 |
| 11   | 10M87377 | L11050024-04 A 826-SPE1            | <2 | 1   | 1    |           | 05/05/11 13:47 |
| 12   | 10M87378 | L11050024-03 A 826-SPE1            | <2 | 1   | 1    |           | 05/05/11 14:19 |
| 13   | 10M87379 | L11050024-01 A 826-SPE1            | <2 | 1   | 1    |           | 05/05/11 14:51 |
| 14   | 10M87380 | L11050025-09 A 826-SPE1            | <2 | 1   | 1    |           | 05/05/11 15:23 |
| 15   | 10M87381 | L11050025-10 A 826-SPE1            | <2 | 1   | 1    |           | 05/05/11 15:54 |
| 16   | 10M87382 | L11050025-14 A 826-SPE1            | <2 | 1   | 1    |           | 05/05/11 16:26 |
| 17   | 10M87383 | L11050025-15 A 826-SPE1            | <2 | 1   | 1    |           | 05/05/11 16:58 |
| 18   | 10M87384 | L11040972-31 A 826-SPE1            | <2 | 1   | 1    |           | 05/05/11 17:30 |
| 19   | 10M87385 | L11040972-33 A 826-SPE1            | <2 | 1   | 1    |           | 05/05/11 18:01 |
| 20   | 10M87386 | L11040972-35 A 826-SPE1            | 7  | 1   | 1    |           | 05/05/11 18:33 |
| 21   | 10M87387 | L11040972-37 A 826-SPE1            | 8  | 1   | 1    |           | 05/05/11 19:05 |
| 22   | 10M87388 | L11050024-02 A 2X 826-SPE1         | <2 | 1   | 2    |           | 05/05/11 19:37 |
| 23   | 10M87389 | L11050025-08 A 2500X 826-SPE1      | <2 | 1   | 2500 |           | 05/05/11 20:08 |
| 24   | 10M87390 | RINSE                              | NA | 1   | 1    |           | 05/05/11 20:40 |
| 25   | 10M87391 | RINSE                              | NA | 1   | 1    |           | 05/05/11 21:12 |
| 26   | 10M87392 | RINSE                              | NA | 1   | 1    |           | 05/05/11 21:44 |

Comments

| Seq.               | Rerun | Dil. | Reason                   | Analytes |
|--------------------|-------|------|--------------------------|----------|
| 2                  | X     |      |                          |          |
| File ID: 10M87368  |       |      |                          |          |
| Naph was low, DNR. |       |      |                          |          |
| 4                  | X     | 1    | Carry-over contamination |          |

Approved: May 06, 2011

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*myg* *gshling*





Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS10 Dataset: 050511  
 Analyst1: TMB Analyst2: NA  
 Method: 8260B SOP: MSV10 Rev: 14  
 Method: 5030B5030C/5035A SOP: PAT01 Rev: 12

Maintenance Log ID: 37369

Internal Standard: STD45120 Surrogate Standard: STD45169  
 CCV: STD45354 LCS: STD45358 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG363720

Comments:

Comments

| Seq.                      | Rerun | Dil. | Reason                 | Analytes      |
|---------------------------|-------|------|------------------------|---------------|
| File ID: 10M87370         |       |      |                        |               |
| Carry over from ccv, DNR. |       |      |                        |               |
| 13                        | X     | 50   | Over Calibration Range | DIETHYL ETHER |
| File ID: 10M87379         |       |      |                        |               |
| 23                        | X     | 1000 | Analyzed too dilute    |               |
| File ID: 10M87389         |       |      |                        |               |
| DNR.                      |       |      |                        |               |

Approved: May 06, 2011

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS8      Dataset: 050511  
Analyst1: ADC      Analyst2: MES  
Method: 8260B      SOP: MSV01      Rev: 14  
Method: 5030B/5030C/5035A      SOP: PAT01      Rev: 12

Maintenance Log ID: 37363

Internal Standard: STD45044      Surrogate Standard: STD45044  
CCV: STD45173      LCS: STD45193      MS/MSD: NA  
Column 1 ID: RTX502.2      Column 2 ID: NA  
Workgroups: WG363762

Comments:

| Seq. | File ID  | Sample Information                | pH | Mat | Dil | Reference | Date/Time      |
|------|----------|-----------------------------------|----|-----|-----|-----------|----------------|
| 1    | 8M369975 | WG363761-01 50NG BFB STD 8260     | NA | 1   | 1   | STD44908  | 05/05/11 11:18 |
| 2    | 8M369976 | WG363761-02 50ug/L WATER STD 8260 | NA | 1   | 1   | STD45173  | 05/05/11 11:42 |
| 3    | 8M369977 | WG363761-02 50ug/L WATER STD 8260 | NA | 1   | 1   | STD45173  | 05/05/11 12:15 |
| 4    | 8M369978 | RINSE                             | NA | 1   | 1   |           | 05/05/11 12:46 |
| 5    | 8M369979 | WG363762-01 VBLK0505 BLANK 8260   | NA | 1   | 1   |           | 05/05/11 13:18 |
| 6    | 8M369980 | WG363762-02 20ug/L LCS 8260       | NA | 1   | 1   | STD45193  | 05/05/11 13:49 |
| 7    | 8M369981 | L11050042-02 B 100X 826-SPE1      | <2 | 1   | 100 |           | 05/05/11 14:20 |
| 8    | 8M369982 | L11050042-01 B 25X 826-SPE1       | <2 | 1   | 25  |           | 05/05/11 14:52 |
| 9    | 8M369983 | L11050042-06 B 500X 826-SPE1      | <2 | 1   | 500 |           | 05/05/11 15:23 |
| 10   | 8M369984 | L11050140-09 A 826-SPE1           | <2 | 1   | 1   |           | 05/05/11 15:54 |
| 11   | 8M369985 | L11050025-16 A 826-SPE1           | <2 | 1   | 1   |           | 05/05/11 16:26 |
| 12   | 8M369986 | L11050025-17 A 826-SPE1           | <2 | 1   | 1   |           | 05/05/11 16:57 |
| 13   | 8M369987 | L11050140-08 A 826-SPE1           | <2 | 1   | 1   |           | 05/05/11 17:28 |
| 14   | 8M369988 | WG363762-03 REF 2.5X 826-SPE      | <2 | 1   | 2.5 |           | 05/05/11 18:00 |
| 15   | 8M369989 | WG363762-04 MS A 2.5X 826-SPE1    | <2 | 1   | 2.5 | STD45193  | 05/05/11 18:31 |
| 16   | 8M369990 | WG363762-05 MSD A 2.5X 826-SPE1   | <2 | 1   | 2.5 | STD45193  | 05/05/11 19:02 |
| 17   | 8M369991 | L11050175-05 A 826-SPE1           | <2 | 1   | 1   |           | 05/05/11 19:33 |
| 18   | 8M369992 | L11050140-01 A 826-SPE1           | <2 | 1   | 1   |           | 05/05/11 20:04 |
| 19   | 8M369993 | L11050140-07 A 826-SPE1           | <2 | 1   | 1   |           | 05/05/11 20:36 |
| 20   | 8M369994 | L11050140-02 A 2.5X 826-SPE1      | <2 | 1   | 2.5 |           | 05/05/11 21:07 |
| 21   | 8M369995 | L11050140-06 A 2X 826-SPE1        | <2 | 1   | 2   |           | 05/05/11 21:38 |
| 22   | 8M369996 | L11050136-01 A 100X 826-LOW       | <2 | 1   | 100 |           | 05/05/11 22:10 |
| 23   | 8M369997 | L11050136-03 A 100X 826-LOW       | <2 | 1   | 100 |           | 05/05/11 22:41 |
| 24   | 8M369998 | L11050136-05 A 100X 826-LOW       | <2 | 1   | 100 |           | 05/05/11 23:12 |
| 25   | 8M369999 | RINSE                             | NA | 1   | 1   |           | 05/05/11 23:43 |
| 26   | 8M370000 | RINSE                             | NA | 1   | 1   |           | 05/06/11 00:15 |
| 27   | 8M370001 | RINSE                             | NA | 1   | 1   |           | 05/06/11 00:46 |
| 28   | 8M370002 | RINSE                             | NA | 1   | 1   |           | 05/06/11 01:17 |

Comments

| Seq.              | Rerun | Dil. | Reason                 | Analytes |
|-------------------|-------|------|------------------------|----------|
| 2                 | X     |      | Check Standard Failure |          |
| File ID: 8M369976 |       |      |                        |          |

Approved: May 06, 2011

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*myg* *Shelley*



Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS8 Dataset: 050511  
 Analyst1: ADC Analyst2: MES  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12

Maintenance Log ID: 37363

Internal Standard: STD45044 Surrogate Standard: STD45044  
 CCV: STD45173 LCS: STD45193 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG363762

Comments:

Comments

| Seq.                             | Rerun | Dil. | Reason              | Analytes |
|----------------------------------|-------|------|---------------------|----------|
| WG363761-02 DNR ketones are low. |       |      |                     |          |
| 14                               | X     |      | Analyzed too dilute |          |
| File ID: 8M369988                |       |      |                     |          |
| L11050140-03                     |       |      |                     |          |
| 20                               | X     |      | Analyzed too dilute |          |
| File ID: 8M369994                |       |      |                     |          |
| L11050140-02                     |       |      |                     |          |
| 21                               | X     |      | Analyzed too dilute |          |
| File ID: 8M369995                |       |      |                     |          |
| L11050140-06                     |       |      |                     |          |
| 22                               | X     | 50   | Analyzed too dilute |          |
| File ID: 8M369996                |       |      |                     |          |
| L11050136-01                     |       |      |                     |          |
| 23                               | X     | 50   | Analyzed too dilute |          |
| File ID: 8M369997                |       |      |                     |          |
| L11050136-03                     |       |      |                     |          |
| 24                               | X     | 50   | Analyzed too dilute |          |
| File ID: 8M369998                |       |      |                     |          |
| L11050136-05                     |       |      |                     |          |

Approved: May 06, 2011

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS8 Dataset: 050911  
 Analyst1: MES Analyst2: NA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 624 SOP: MSV10 Rev: 8  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12  
 Maintenance Log ID: 37401

Internal Standard: STD45044 Surrogate Standard: STD45044  
 CCV: STD45173 LCS: STD45193 MS/MSD: STD45193  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG363971

Comments:

| Seq. | File ID  | Sample Information                | pH | Mat | Dil  | Reference | Date/Time      |
|------|----------|-----------------------------------|----|-----|------|-----------|----------------|
| 1    | 8M370033 | RINSE                             | NA | 1   | 1    |           | 05/09/11 07:59 |
| 2    | 8M370034 | WG363970-01 50NG BFB STD 8260     | NA | 1   | 1    | STD45401  | 05/09/11 08:33 |
| 3    | 8M370035 | WG363970-02 50ug/L WATER STD 8260 | NA | 1   | 1    | STD45173  | 05/09/11 08:59 |
| 4    | 8M370036 | RINSE                             | NA | 1   | 1    |           | 05/09/11 09:30 |
| 5    | 8M370037 | WG363971-01 VBLK0509 BLANK 8260   | NA | 1   | 1    |           | 05/09/11 10:02 |
| 6    | 8M370038 | WG363971-02 20ug/L LCS 8260       | NA | 1   | 1    | STD45193  | 05/09/11 10:33 |
| 7    | 8M370039 | L11050247-14 A 826-SPE            | <2 | 1   | 1    |           | 05/09/11 11:04 |
| 8    | 8M370040 | L11050158-01 B 826-SPE            | <2 | 1   | 1    |           | 05/09/11 11:35 |
| 9    | 8M370041 | L11050158-02 B 826-SPE            | <2 | 1   | 1    |           | 05/09/11 12:07 |
| 10   | 8M370042 | L11050091-41 B 826-SPE            | <2 | 1   | 1    |           | 05/09/11 12:38 |
| 11   | 8M370043 | L11050091-34 B 2X 826-SPE         | <2 | 1   | 2    |           | 05/09/11 13:10 |
| 12   | 8M370044 | L11050247-01 A 826-SPE            | <2 | 1   | 1    |           | 05/09/11 13:41 |
| 13   | 8M370045 | L11050247-02 A 826-SPE            | <2 | 1   | 1    |           | 05/09/11 14:12 |
| 14   | 8M370046 | L11050247-03 A 826-SPE            | <2 | 1   | 1    |           | 05/09/11 14:44 |
| 15   | 8M370047 | L11050247-04 MS A 826-SPE         | <2 | 1   | 1    | STD45358  | 05/09/11 15:15 |
| 16   | 8M370048 | L11050247-05 MSD A 826-SPE        | <2 | 1   | 1    | STD45358  | 05/09/11 15:47 |
| 17   | 8M370049 | L11050025-08 C 1000X 826-SPE      | <2 | 1   | 1000 |           | 05/09/11 16:18 |
| 18   | 8M370050 | L11050247-06 A 826-SPE            | <2 | 1   | 1    |           | 05/09/11 16:49 |
| 19   | 8M370051 | L11050247-07 A 826-SPE            | <2 | 1   | 1    |           | 05/09/11 17:21 |
| 20   | 8M370052 | L11050247-08 A 826-SPE            | <2 | 1   | 1    |           | 05/09/11 17:52 |
| 21   | 8M370053 | L11050247-09 A 826-SPE            | <2 | 1   | 1    |           | 05/09/11 18:24 |
| 22   | 8M370054 | L11050247-10 A 826-SPE            | <2 | 1   | 1    |           | 05/09/11 18:55 |
| 23   | 8M370055 | L11050247-20 A 826-SPE            | <2 | 1   | 1    |           | 05/09/11 19:26 |
| 24   | 8M370056 | L11050247-21 A 826-SPE            | <2 | 1   | 1    |           | 05/09/11 19:57 |
| 25   | 8M370057 | L11050247-27 A 826-SPE            | <2 | 1   | 1    |           | 05/09/11 20:29 |
| 26   | 8M370058 | RINSE                             | NA | 1   | 1    |           | 05/09/11 21:00 |
| 27   | 8M370059 | WG363971-06 624 BLANK             | NA | 2   | 1    |           | 05/09/11 21:31 |
| 28   | 8M370060 | L11050293-01 A 624-SPE9           | <2 | 2   | 1    |           | 05/09/11 22:02 |
| 29   | 8M370061 | RINSE                             | NA | 1   | 1    |           | 05/09/11 22:34 |
| 30   | 8M370062 | RINSE                             | NA | 1   | 1    |           | 05/09/11 23:05 |
| 31   | 8M370063 | RINSE                             | NA | 1   | 1    |           | 05/09/11 23:36 |
| 32   | 8M370064 | ULTRA CONC CCV 50PPB              | NA | 1   | 1    |           | 05/10/11 00:07 |

Approved: May 10, 2011

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## Microbac Laboratories Inc.

## Data Checklist

Date: 05-JAN-2011

Analyst: TMB

Analyst: NA

Method: 8260B/624

Instrument: HPMS10

Curve Workgroup: NA

Runlog ID: 38426

Analytical Workgroups: WG353160, WG353219

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| System Performance Check                                           | NA  |
| BFB                                                                | X   |
| Initial Calibration                                                | X   |
| Average RF                                                         | X   |
| Linear Reg or Higher Order Curve                                   | X   |
| Second Source standard % Difference                                | X   |
| Continuing Calibration /Check Standards                            | X   |
| Project/Client Specific Requirements                               | X   |
| Special Standards                                                  | X   |
| Blanks                                                             | X   |
| TCL's                                                              | X   |
| Surrogates                                                         | X   |
| LCS (Laboratory Control Sample)                                    | X   |
| Recoveries                                                         | X   |
| Surrogates                                                         | X   |
| MS/MSD/Duplicates                                                  | NA  |
| Samples                                                            | X   |
| TCL Hits                                                           | X   |
| Spectra of TCL Hits                                                | X   |
| Surrogates                                                         | X   |
| Internal Standards Criteria                                        | X   |
| Library Searches                                                   | NA  |
| Calculations & Correct Factors                                     | X   |
| Dilutions Run                                                      | NA  |
| Reruns                                                             | NA  |
| Manual Integrations                                                | NA  |
| Case Narrative                                                     | X   |
| Results Reporting/Data Qualifiers                                  | X   |
| KOBRA Workgroup Data                                               | X   |
| Check for Completeness                                             | X   |
| Primary Reviewer                                                   | TMB |
| Secondary Reviewer                                                 | MDA |
|                                                                    |     |
| Check for compliance with method and project specific requirements | X   |
| Check the completeness of reported information                     | X   |
| Check the information for the report narrative                     | X   |
| Check the reasonableness of the results                            | X   |

Primary Reviewer:  
07-JAN-2011



Secondary Reviewer:  
10-JAN-2011



## Microbac Laboratories Inc.

## Data Checklist

Date: 03-FEB-2011

Analyst: MES

Analyst: MDA

Method: 8260B/624

Instrument: HPMS8

Curve Workgroup: NA

Runlog ID: 38897

Analytical Workgroups: WG355612, WG355674

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| System Performance Check                                           | NA  |
| BFB                                                                | X   |
| Initial Calibration                                                | X   |
| Average RF                                                         | X   |
| Linear Reg or Higher Order Curve                                   | X   |
| Second Source standard % Difference                                | X   |
| Continuing Calibration /Check Standards                            | X   |
| Project/Client Specific Requirements                               | X   |
| Special Standards                                                  | X   |
| Blanks                                                             | X   |
| TCL's                                                              | X   |
| Surrogates                                                         | X   |
| LCS (Laboratory Control Sample)                                    | X   |
| Recoveries                                                         | X   |
| Surrogates                                                         | X   |
| MS/MSD/Duplicates                                                  | NA  |
| Samples                                                            | X   |
| TCL Hits                                                           | X   |
| Spectra of TCL Hits                                                | X   |
| Surrogates                                                         | X   |
| Internal Standards Criteria                                        | X   |
| Library Searches                                                   | NA  |
| Calculations & Correct Factors                                     | X   |
| Dilutions Run                                                      | NA  |
| Reruns                                                             | X   |
| Manual Integrations                                                | X   |
| Case Narrative                                                     | X   |
| Results Reporting/Data Qualifiers                                  | X   |
| KOBRA Workgroup Data                                               | X   |
| Check for Completeness                                             | X   |
| Primary Reviewer                                                   | MES |
| Secondary Reviewer                                                 | TMB |
|                                                                    |     |
| Check for compliance with method and project specific requirements | X   |
| Check the completeness of reported information                     | X   |
| Check the information for the report narrative                     | X   |
| Check the reasonableness of the results                            | X   |

Primary Reviewer:  
04-FEB-2011

*Mary Schilling*

Secondary Reviewer:  
07-FEB-2011

*Tiffany Bailey*



## Microbac Laboratories Inc.

## Data Checklist

Date: 06-APR-2011  
 Analyst: TMB  
 Analyst: NA  
 Method: 8260B/624  
 Instrument: HPMS10  
 Curve Workgroup: NA  
 Runlog ID: 39896  
 Analytical Workgroups: WG360930

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| System Performance Check                                           | NA  |
| BFB                                                                | X   |
| Initial Calibration                                                | X   |
| Average RF                                                         | X   |
| Linear Reg or Higher Order Curve                                   | X   |
| Second Source standard % Difference                                | X   |
| Continuing Calibration /Check Standards                            | X   |
| Project/Client Specific Requirements                               | X   |
| Special Standards                                                  | NA  |
| Blanks                                                             | X   |
| TCL's                                                              | X   |
| Surrogates                                                         | X   |
| LCS (Laboratory Control Sample)                                    | X   |
| Recoveries                                                         | X   |
| Surrogates                                                         | X   |
| MS/MSD/Duplicates                                                  | NA  |
| Samples                                                            | X   |
| TCL Hits                                                           | X   |
| Spectra of TCL Hits                                                | X   |
| Surrogates                                                         | X   |
| Internal Standards Criteria                                        | X   |
| Library Searches                                                   | NA  |
| Calculations & Correct Factors                                     | X   |
| Dilutions Run                                                      | NA  |
| Reruns                                                             | NA  |
| Manual Integrations                                                | X   |
| Case Narrative                                                     | X   |
| Results Reporting/Data Qualifiers                                  | X   |
| KOBRA Workgroup Data                                               | X   |
| Check for Completeness                                             | X   |
| Primary Reviewer                                                   | TMB |
| Secondary Reviewer                                                 | MDA |
|                                                                    |     |
| Check for compliance with method and project specific requirements | X   |
| Check the completeness of reported information                     | X   |
| Check the information for the report narrative                     | X   |
| Check the reasonableness of the results                            | X   |

Primary Reviewer:  
07-APR-2011

*Tiffany Bailey*

Secondary Reviewer:  
08-APR-2011

*Non*

## Microbac Laboratories Inc.

## Data Checklist

Date: 08-APR-2011  
 Analyst: MES  
 Analyst: NA  
 Method: 8260/624  
 Instrument: HPMS11  
 Curve Workgroup: NA  
 Runlog ID: 39940  
 Analytical Workgroups: WG361240, WG361163

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| System Performance Check                                           | NA  |
| BFB                                                                | X   |
| Initial Calibration                                                | X   |
| Average RF                                                         | X   |
| Linear Reg or Higher Order Curve                                   | X   |
| Second Source standard % Difference                                | X   |
| Continuing Calibration /Check Standards                            | NA  |
| Project/Client Specific Requirements                               | NA  |
| Special Standards                                                  | NA  |
| Blanks                                                             | X   |
| TCL's                                                              | X   |
| Surrogates                                                         | X   |
| LCS (Laboratory Control Sample)                                    | NA  |
| Recoveries                                                         | NA  |
| Surrogates                                                         | NA  |
| MS/MSD/Duplicates                                                  | NA  |
| Samples                                                            | X   |
| TCL Hits                                                           | X   |
| Spectra of TCL Hits                                                | X   |
| Surrogates                                                         | X   |
| Internal Standards Criteria                                        | X   |
| Library Searches                                                   | NA  |
| Calculations & Correct Factors                                     | X   |
| Dilutions Run                                                      | NA  |
| Reruns                                                             | X   |
| Manual Integrations                                                | NA  |
| Case Narrative                                                     | NA  |
| Results Reporting/Data Qualifiers                                  | NA  |
| KOBRA Workgroup Data                                               | X   |
| Check for Completeness                                             | X   |
| Primary Reviewer                                                   | MES |
| Secondary Reviewer                                                 | MDA |
|                                                                    |     |
| Check for compliance with method and project specific requirements | X   |
| Check the completeness of reported information                     | X   |
| Check the information for the report narrative                     | X   |
| Check the reasonableness of the results                            | X   |
|                                                                    |     |

Primary Reviewer:  
11-APR-2011

*Mary Schilling*

Secondary Reviewer:  
12-APR-2011

*Michael*

## Microbac Laboratories Inc.

## Data Checklist

Date: 15-APR-2011

Analyst: MES

Analyst: NA

Method: 8260/624

Instrument: HPMS8

Curve Workgroup: NA

Runlog ID: 40089

Analytical Workgroups: WG362061, WG362062

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| System Performance Check                                           | NA  |
| BFB                                                                | X   |
| Initial Calibration                                                | X   |
| Average RF                                                         | X   |
| Linear Reg or Higher Order Curve                                   | X   |
| Second Source standard % Difference                                | X   |
| Continuing Calibration /Check Standards                            | NA  |
| Project/Client Specific Requirements                               | NA  |
| Special Standards                                                  | NA  |
| Blanks                                                             | X   |
| TCL's                                                              | X   |
| Surrogates                                                         | X   |
| LCS (Laboratory Control Sample)                                    | NA  |
| Recoveries                                                         | NA  |
| Surrogates                                                         | NA  |
| MS/MSD/Duplicates                                                  | NA  |
| Samples                                                            | X   |
| TCL Hits                                                           | X   |
| Spectra of TCL Hits                                                | X   |
| Surrogates                                                         | X   |
| Internal Standards Criteria                                        | X   |
| Library Searches                                                   | NA  |
| Calculations & Correct Factors                                     | X   |
| Dilutions Run                                                      | NA  |
| Reruns                                                             | NA  |
| Manual Integrations                                                | NA  |
| Case Narrative                                                     | NA  |
| Results Reporting/Data Qualifiers                                  | X   |
| KOBRA Workgroup Data                                               | X   |
| Check for Completeness                                             | X   |
| Primary Reviewer                                                   | MES |
| Secondary Reviewer                                                 | MDA |
|                                                                    |     |
| Check for compliance with method and project specific requirements | X   |
| Check the completeness of reported information                     | X   |
| Check the information for the report narrative                     | X   |
| Check the reasonableness of the results                            | X   |

Primary Reviewer:  
18-APR-2011

*Mary Schilling*

Secondary Reviewer:  
26-APR-2011

*Michael*



## Microbac Laboratories Inc.

## Data Checklist

Date: 27-APR-2011

Analyst: FJB

Analyst: NA

Method: 8260B

Instrument: HPMS11

Curve Workgroup: NA

Runlog ID: 40277

Analytical Workgroups: WG363112, WG363094

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| System Performance Check                                           | X   |
| BFB                                                                | X   |
| Initial Calibration                                                | X   |
| Average RF                                                         | X   |
| Linear Reg or Higher Order Curve                                   | X   |
| Second Source standard % Difference                                | X   |
| Continuing Calibration /Check Standards                            | X   |
| Project/Client Specific Requirements                               | X   |
| Special Standards                                                  | NA  |
| Blanks                                                             | X   |
| TCL's                                                              | X   |
| Surrogates                                                         | X   |
| LCS (Laboratory Control Sample)                                    | X   |
| Recoveries                                                         | X   |
| Surrogates                                                         | X   |
| MS/MSD/Duplicates                                                  | NA  |
| Samples                                                            | NA  |
| TCL Hits                                                           | NA  |
| Spectra of TCL Hits                                                | NA  |
| Surrogates                                                         | NA  |
| Internal Standards Criteria                                        | NA  |
| Library Searches                                                   | NA  |
| Calculations & Correct Factors                                     | NA  |
| Dilutions Run                                                      | NA  |
| Reruns                                                             | NA  |
| Manual Integrations                                                | NA  |
| Case Narrative                                                     | NA  |
| Results Reporting/Data Qualifiers                                  | X   |
| KOBRA Workgroup Data                                               | X   |
| Check for Completeness                                             | X   |
| Primary Reviewer                                                   | FJB |
| Secondary Reviewer                                                 | MDA |
|                                                                    |     |
| Check for compliance with method and project specific requirements | X   |
| Check the completeness of reported information                     | X   |
| Check the information for the report narrative                     | X   |
| Check the reasonableness of the results                            | X   |

Primary Reviewer:  
28-APR-2011

Secondary Reviewer:  
28-APR-2011






## Microbac Laboratories Inc.

## Data Checklist

Date: 03-MAY-2011

Analyst: TMB

Analyst: NA

Method: 8260

Instrument: HPMS11

Curve Workgroup: NA

Runlog ID: 40359

Analytical Workgroups: WG363415

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| System Performance Check                                           | NA  |
| BFB                                                                | X   |
| Initial Calibration                                                | X   |
| Average RF                                                         | X   |
| Linear Reg or Higher Order Curve                                   | X   |
| Second Source standard % Difference                                | X   |
| Continuing Calibration /Check Standards                            | X   |
| Project/Client Specific Requirements                               | X   |
| Special Standards                                                  | NA  |
| Blanks                                                             | X   |
| TCL's                                                              | X   |
| Surrogates                                                         | X   |
| LCS (Laboratory Control Sample)                                    | X   |
| Recoveries                                                         | X   |
| Surrogates                                                         | X   |
| MS/MSD/Duplicates                                                  | X   |
| Samples                                                            | X   |
| TCL Hits                                                           | X   |
| Spectra of TCL Hits                                                | X   |
| Surrogates                                                         | X   |
| Internal Standards Criteria                                        | X   |
| Library Searches                                                   | NA  |
| Calculations & Correct Factors                                     | X   |
| Dilutions Run                                                      | NA  |
| Reruns                                                             | X   |
| Manual Integrations                                                | NA  |
| Case Narrative                                                     | X   |
| Results Reporting/Data Qualifiers                                  | X   |
| KOBRA Workgroup Data                                               | X   |
| Check for Completeness                                             | X   |
| Primary Reviewer                                                   | MES |
| Secondary Reviewer                                                 | MDA |
|                                                                    |     |
| Check for compliance with method and project specific requirements | X   |
| Check the completeness of reported information                     | X   |
| Check the information for the report narrative                     | X   |
| Check the reasonableness of the results                            | X   |

Primary Reviewer:  
04-MAY-2011

*Mary Schilling*

Secondary Reviewer:  
04-MAY-2011

*Michael*



## Microbac Laboratories Inc.

## Data Checklist

Date: 05-MAY-2011

Analyst: TMB

Analyst: NA

Method: 8260B

Instrument: HPMS10

Curve Workgroup: NA

Runlog ID: 40414

Analytical Workgroups: WG363720

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| System Performance Check                                           | NA  |
| BFB                                                                | X   |
| Initial Calibration                                                | X   |
| Average RF                                                         | X   |
| Linear Reg or Higher Order Curve                                   | X   |
| Second Source standard % Difference                                | X   |
| Continuing Calibration /Check Standards                            | X   |
| Project/Client Specific Requirements                               | X   |
| Special Standards                                                  | NA  |
| Blanks                                                             | X   |
| TCL's                                                              | X   |
| Surrogates                                                         | X   |
| LCS (Laboratory Control Sample)                                    | X   |
| Recoveries                                                         | X   |
| Surrogates                                                         | X   |
| MS/MSD/Duplicates                                                  | NA  |
| Samples                                                            | X   |
| TCL Hits                                                           | X   |
| Spectra of TCL Hits                                                | X   |
| Surrogates                                                         | X   |
| Internal Standards Criteria                                        | X   |
| Library Searches                                                   | NA  |
| Calculations & Correct Factors                                     | X   |
| Dilutions Run                                                      | NA  |
| Reruns                                                             | X   |
| Manual Integrations                                                | NA  |
| Case Narrative                                                     | X   |
| Results Reporting/Data Qualifiers                                  | X   |
| KOBRA Workgroup Data                                               | X   |
| Check for Completeness                                             | X   |
| Primary Reviewer                                                   | TMB |
| Secondary Reviewer                                                 | MES |
|                                                                    |     |
| Check for compliance with method and project specific requirements | X   |
| Check the completeness of reported information                     | X   |
| Check the information for the report narrative                     | X   |
| Check the reasonableness of the results                            | X   |

Primary Reviewer:  
06-MAY-2011

*Tiffany Bailey*

Secondary Reviewer:  
06-MAY-2011

*mary shelley*

## Microbac Laboratories Inc.

## Data Checklist

Date: 05-MAY-2011

Analyst: ADC

Analyst: MES

Method: 8260

Instrument: HPMS8

Curve Workgroup: NA

Runlog ID: 40408

Analytical Workgroups: WG363762

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| System Performance Check                                           | NA  |
| BFB                                                                | X   |
| Initial Calibration                                                | X   |
| Average RF                                                         | X   |
| Linear Reg or Higher Order Curve                                   | X   |
| Second Source standard % Difference                                | X   |
| Continuing Calibration /Check Standards                            | X   |
| Project/Client Specific Requirements                               | X   |
| Special Standards                                                  | NA  |
| Blanks                                                             | X   |
| TCL's                                                              | X   |
| Surrogates                                                         | X   |
| LCS (Laboratory Control Sample)                                    | X   |
| Recoveries                                                         | X   |
| Surrogates                                                         | X   |
| MS/MSD/Duplicates                                                  | X   |
| Samples                                                            | X   |
| TCL Hits                                                           | X   |
| Spectra of TCL Hits                                                | X   |
| Surrogates                                                         | X   |
| Internal Standards Criteria                                        | X   |
| Library Searches                                                   | NA  |
| Calculations & Correct Factors                                     | X   |
| Dilutions Run                                                      | X   |
| Reruns                                                             | X   |
| Manual Integrations                                                | NA  |
| Case Narrative                                                     | X   |
| Results Reporting/Data Qualifiers                                  | X   |
| KOBRA Workgroup Data                                               | X   |
| Check for Completeness                                             | X   |
| Primary Reviewer                                                   | ADC |
| Secondary Reviewer                                                 | MES |
|                                                                    |     |
| Check for compliance with method and project specific requirements | X   |
| Check the completeness of reported information                     | X   |
| Check the information for the report narrative                     | X   |
| Check the reasonableness of the results                            | X   |

Primary Reviewer:  
06-MAY-2011



Secondary Reviewer:  
06-MAY-2011



## Microbac Laboratories Inc.

## Data Checklist

Date: 09-MAY-2011

Analyst: MES

Analyst: NA

Method: 8260/624

Instrument: HPMS8

Curve Workgroup: NA

Runlog ID: 40456

Analytical Workgroups: WG363971

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| System Performance Check                                           | NA  |
| BFB                                                                | X   |
| Initial Calibration                                                | X   |
| Average RF                                                         | X   |
| Linear Reg or Higher Order Curve                                   | X   |
| Second Source standard % Difference                                | X   |
| Continuing Calibration /Check Standards                            | X   |
| Project/Client Specific Requirements                               | X   |
| Special Standards                                                  | NA  |
| Blanks                                                             | X   |
| TCL's                                                              | X   |
| Surrogates                                                         | X   |
| LCS (Laboratory Control Sample)                                    | X   |
| Recoveries                                                         | X   |
| Surrogates                                                         | X   |
| MS/MSD/Duplicates                                                  | X   |
| Samples                                                            | X   |
| TCL Hits                                                           | X   |
| Spectra of TCL Hits                                                | X   |
| Surrogates                                                         | X   |
| Internal Standards Criteria                                        | X   |
| Library Searches                                                   | NA  |
| Calculations & Correct Factors                                     | X   |
| Dilutions Run                                                      | NA  |
| Reruns                                                             | NA  |
| Manual Integrations                                                | NA  |
| Case Narrative                                                     | X   |
| Results Reporting/Data Qualifiers                                  | X   |
| KOBRA Workgroup Data                                               | X   |
| Check for Completeness                                             | X   |
| Primary Reviewer                                                   | MES |
| Secondary Reviewer                                                 | MDA |
|                                                                    |     |
| Check for compliance with method and project specific requirements | X   |
| Check the completeness of reported information                     | X   |
| Check the information for the report narrative                     | X   |
| Check the reasonableness of the results                            | X   |

Primary Reviewer:  
10-MAY-2011

Secondary Reviewer:  
10-MAY-2011

*Mary Schilling*

*MDA*



Microbac Laboratories Inc.  
HOLDING TIMES  
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B  
Login Number: L11050025

AAB#: WG363415

| Client ID             | ID | Date Collected | TCLP Date | Time Held | Max Hold | Q | Extract Date | Time Held | Max Hold | Q | Run Date | Time Held | Max Hold | Q |
|-----------------------|----|----------------|-----------|-----------|----------|---|--------------|-----------|----------|---|----------|-----------|----------|---|
| MW07GW2030-042711     | 01 | 04/27/11       |           |           |          |   |              |           | 14       |   | 05/03/11 | 6         | 14       |   |
| MW07GW2030-042711-MS  | 02 | 04/27/11       |           |           |          |   |              |           | 14       |   | 05/03/11 | 5.9       | 14       |   |
| MW07GW2030-042711-MSD | 03 | 04/27/11       |           |           |          |   |              |           | 14       |   | 05/03/11 | 5.9       | 14       |   |
| MW18GW3035-042711     | 06 | 04/27/11       |           |           |          |   |              |           | 14       |   | 05/03/11 | 6         | 14       |   |

\* = SEE PROJECT QAPP REQUIREMENTS

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Microbac Laboratories Inc.  
HOLDING TIMES  
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B

AAB#: WG363418

Login Number: L11050025

| Client ID         | ID | Date Collected | TCLP Date | Time Held | Max Hold | Q | Extract Date | Time Held | Max Hold | Q | Run Date | Time Held | Max Hold | Q |
|-------------------|----|----------------|-----------|-----------|----------|---|--------------|-----------|----------|---|----------|-----------|----------|---|
| MW21GW2434-042711 | 04 | 04/27/11       |           |           |          |   |              |           | 14       |   | 05/02/11 | 5         | 14       |   |
| FD01-042711       | 05 | 04/27/11       |           |           |          |   |              |           | 14       |   | 05/02/11 | 5.7       | 14       |   |
| BMWGW1828-042711  | 07 | 04/27/11       |           |           |          |   |              |           | 14       |   | 05/02/11 | 5.1       | 14       |   |
| MW20GW2333-042811 | 11 | 04/28/11       |           |           |          |   |              |           | 14       |   | 05/02/11 | 4.4       | 14       |   |
| FD02-042811       | 12 | 04/28/11       |           |           |          |   |              |           | 14       |   | 05/02/11 | 4.8       | 14       |   |
| MW12GW1424-042811 | 13 | 04/28/11       |           |           |          |   |              |           | 14       |   | 05/02/11 | 4.4       | 14       |   |
| TRIPBLANK-042811  | 18 | 04/28/11       |           |           |          |   |              |           | 14       |   | 05/02/11 | 4.7       | 14       |   |

\* = SEE PROJECT QAPP REQUIREMENTS

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Microbac Laboratories Inc.  
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EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B  
Login Number: L11050025

AAB#: WG363720

| Client ID         | ID | Date Collected | TCLP Date | Time Held | Max Hold | Q | Extract Date | Time Held | Max Hold | Q | Run Date | Time Held | Max Hold | Q |
|-------------------|----|----------------|-----------|-----------|----------|---|--------------|-----------|----------|---|----------|-----------|----------|---|
| MW22GW2535-042811 | 09 | 04/28/11       |           |           |          |   |              |           | 14       |   | 05/05/11 | 7.2       | 14       |   |
| MW23GW3040-042811 | 10 | 04/28/11       |           |           |          |   |              |           | 14       |   | 05/05/11 | 7.3       | 14       |   |
| MW10GW1732-042811 | 14 | 04/28/11       |           |           |          |   |              |           | 14       |   | 05/05/11 | 7.2       | 14       |   |
| MW19GW1828-042811 | 15 | 04/28/11       |           |           |          |   |              |           | 14       |   | 05/05/11 | 7.1       | 14       |   |

\* = SEE PROJECT QAPP REQUIREMENTS

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Microbac Laboratories Inc.  
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EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B  
Login Number: L11050025

AAB#: WG363762

| Client ID         | ID | Date Collected | TCLP Date | Time Held | Max Hold | Q | Extract Date | Time Held | Max Hold | Q | Run Date | Time Held | Max Hold | Q |
|-------------------|----|----------------|-----------|-----------|----------|---|--------------|-----------|----------|---|----------|-----------|----------|---|
| MW09GW1424-042811 | 16 | 04/28/11       |           |           |          |   |              |           | 14       |   | 05/05/11 | 7.1       | 14       |   |
| MW03GW1626-042811 | 17 | 04/28/11       |           |           |          |   |              |           | 14       |   | 05/05/11 | 7.1       | 14       |   |

\* = SEE PROJECT QAPP REQUIREMENTS

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Microbac Laboratories Inc.  
HOLDING TIMES  
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B  
Login Number: L11050025

AAB#: WG363971

| Client ID         | ID | Date Collected | TCLP Date | Time Held | Max Hold | Q | Extract Date | Time Held | Max Hold | Q | Run Date | Time Held | Max Hold | Q |
|-------------------|----|----------------|-----------|-----------|----------|---|--------------|-----------|----------|---|----------|-----------|----------|---|
| MW16GW1020-042711 | 08 | 04/27/11       |           |           |          |   |              |           | 14       |   | 05/09/11 | 12        | 14       |   |

\* = SEE PROJECT QAPP REQUIREMENTS

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Microbac Laboratories Inc.  
SURROGATE STANDARDS

Login Number: L11050025  
Instrument Id: HPMS11  
Workgroup (AAB#): WG363415

Method: 8260  
CAL ID: HPMS11 - 08-APR-11  
Matrix: Water

| Sample Number | Dilution | Tag | 1    | 2    | 3    | 4    |
|---------------|----------|-----|------|------|------|------|
| L11050025-01  | 1.00     | 01  | 102  | 97.9 | 99.9 | 91.9 |
| L11050025-02  | 1.00     | 01  | 103  | 98.7 | 101  | 96.7 |
| L11050025-03  | 1.00     | 01  | 99.7 | 97.5 | 101  | 96.7 |
| L11050025-06  | 1.00     | 01  | 102  | 96.6 | 98.0 | 92.9 |
| WG363415-01   | 1.00     | 01  | 101  | 97.4 | 101  | 99.2 |
| WG363415-02   | 1.00     | 01  | 103  | 100  | 101  | 98.1 |

| Surrogates                | Surrogate Limits |
|---------------------------|------------------|
| 1 - 1,2-Dichloroethane-d4 | 80 - 120         |
| 2 - Dibromofluoromethane  | 86 - 118         |
| 3 - 4-Bromofluorobenzene  | 86 - 115         |
| 4 - Toluene-d8            | 88 - 110         |

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

Microbac Laboratories Inc.  
SURROGATE STANDARDS

Login Number: L11050025  
Instrument Id: HPMS10  
Workgroup (AAB#): WG363418

Method: 8260  
CAL ID: HPMS10 - 06-APR-11  
Matrix: Water

| Sample Number | Dilution | Tag | 1    | 2    | 3    | 4   |
|---------------|----------|-----|------|------|------|-----|
| L11050025-04  | 1.00     | 01  | 96.6 | 99.0 | 90.8 | 104 |
| L11050025-05  | 1.00     | 01  | 96.6 | 98.7 | 92.9 | 105 |
| L11050025-07  | 1.00     | 01  | 96.9 | 98.9 | 92.1 | 104 |
| L11050025-11  | 1.00     | 01  | 100  | 101  | 91.6 | 105 |
| L11050025-12  | 1.00     | 01  | 97.8 | 97.8 | 91.5 | 103 |
| L11050025-13  | 1.00     | 01  | 96.6 | 98.2 | 92.8 | 104 |
| L11050025-18  | 1.00     | 01  | 97.8 | 99.3 | 94.3 | 104 |
| WG363418-01   | 1.00     | 01  | 97.9 | 101  | 93.6 | 105 |
| WG363418-02   | 1.00     | 01  | 95.2 | 102  | 91.0 | 105 |
| WG363418-06   | 1.00     | 01  | 99.6 | 101  | 90.9 | 104 |

| Surrogates                | Surrogate Limits |
|---------------------------|------------------|
| 1 - 1,2-Dichloroethane-d4 | 80 - 120         |
| 2 - Dibromofluoromethane  | 86 - 118         |
| 3 - 4-Bromofluorobenzene  | 86 - 115         |
| 4 - Toluene-d8            | 88 - 110         |

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected



Microbac Laboratories Inc.  
SURROGATE STANDARDS

Login Number: L11050025  
Instrument Id: HPMS8  
Workgroup (AAB#): WG363762

Method: 8260  
CAL ID: HPMS8 - 16-APR-11  
Matrix: Water

| Sample Number | Dilution | Tag | 1    | 2    | 3    | 4    |
|---------------|----------|-----|------|------|------|------|
| L11050025-16  | 1.00     | 01  | 97.2 | 99.0 | 92.7 | 92.5 |
| L11050025-17  | 1.00     | 01  | 98.5 | 101  | 94.8 | 91.1 |
| WG363762-01   | 1.00     | 01  | 98.6 | 100  | 94.9 | 92.9 |
| WG363762-02   | 1.00     | 01  | 97.2 | 98.5 | 95.4 | 92.8 |

| Surrogates                | Surrogate Limits |   |     |
|---------------------------|------------------|---|-----|
| 1 - 1,2-Dichloroethane-d4 | 80               | - | 120 |
| 2 - Dibromofluoromethane  | 86               | - | 118 |
| 3 - 4-Bromofluorobenzene  | 86               | - | 115 |
| 4 - Toluene-d8            | 88               | - | 110 |

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

SURROGATES - Modified 03/06/2008  
PDF File ID: 1998742  
Report generated: 05/11/2011 13:49





Microbac Laboratories Inc.  
SURROGATE STANDARDS

Login Number: L11050025  
Instrument Id: HPMS10  
Workgroup (AAB#): WG363720

Method: 8260  
CAL ID: HPMS10 - 06-APR-11  
Matrix: Water

| Sample Number | Dilution | Tag | 1    | 2    | 3    | 4   |
|---------------|----------|-----|------|------|------|-----|
| L11050025-09  | 1.00     | 01  | 95.8 | 98.3 | 90.4 | 103 |
| L11050025-10  | 1.00     | 01  | 99.2 | 99.6 | 90.6 | 104 |
| L11050025-14  | 1.00     | 01  | 98.7 | 99.9 | 88.9 | 103 |
| L11050025-15  | 1.00     | 01  | 99.0 | 98.4 | 91.0 | 103 |
| WG363720-01   | 1.00     | 01  | 99.2 | 99.7 | 92.3 | 105 |
| WG363720-02   | 1.00     | 01  | 97.0 | 100  | 88.3 | 105 |
| WG363720-03   | 1.00     | 01  | 99.9 | 103  | 90.1 | 105 |

| Surrogates                | Surrogate Limits |   |     |
|---------------------------|------------------|---|-----|
| 1 - 1,2-Dichloroethane-d4 | 80               | - | 120 |
| 2 - Dibromofluoromethane  | 86               | - | 118 |
| 3 - 4-Bromofluorobenzene  | 86               | - | 115 |
| 4 - Toluene-d8            | 88               | - | 110 |

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

SURROGATES - Modified 03/06/2008  
PDF File ID: 1998742  
Report generated: 05/11/2011 13:49



Microbac Laboratories Inc.  
SURROGATE STANDARDS

Login Number: L11050025  
Instrument Id: HPMS8  
Workgroup (AAB#): WG363971

Method: 8260  
CAL ID: HPMS8 - 16-APR-11  
Matrix: Water

| Sample Number | Dilution | Tag  | 1    | 2    | 3    | 4    |
|---------------|----------|------|------|------|------|------|
| L11050025-08  | 1000     | DL02 | 98.4 | 100  | 94.4 | 91.0 |
| WG363971-01   | 1.00     | 01   | 98.4 | 97.3 | 95.1 | 92.0 |
| WG363971-02   | 1.00     | 01   | 97.8 | 99.7 | 93.8 | 90.7 |
| WG363971-06   | 1.00     | 01   | 98.6 | 102  | 93.2 | 91.0 |

| Surrogates                | Surrogate Limits |   |     |
|---------------------------|------------------|---|-----|
| 1 - 1,2-Dichloroethane-d4 | 80               | - | 120 |
| 2 - Dibromofluoromethane  | 86               | - | 118 |
| 3 - 4-Bromofluorobenzene  | 86               | - | 115 |
| 4 - Toluene-d8            | 88               | - | 110 |

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

SURROGATES - Modified 03/06/2008  
PDF File ID: 1998742  
Report generated: 05/11/2011 13:49



## METHOD BLANK SUMMARY

Login Number: L11050025  
Blank File ID: 10M87287  
Prep Date: 05/02/11 14:24  
Analyzed Date: 05/02/11 14:24  
Analyst: TMB

Work Group: WG363418  
Blank Sample ID: WG363418-01  
Instrument ID: HPMS10  
Method: 8260B

This Method Blank Applies To The Following Samples:

| Client ID         | Lab Sample ID | Lab File ID | Time Analyzed  | TAG |
|-------------------|---------------|-------------|----------------|-----|
| LCS               | WG363418-02   | 10M87288    | 05/02/11 14:56 | 01  |
| TRIPBLANK-042811  | L11050025-18  | 10M87291    | 05/02/11 16:30 | 01  |
| MW21GW2434-042711 | L11050025-04  | 10M87292    | 05/02/11 17:02 | 01  |
| FD01-042711       | L11050025-05  | 10M87293    | 05/02/11 17:33 | 01  |
| BMWGW1828-042711  | L11050025-07  | 10M87294    | 05/02/11 18:05 | 01  |
| MW20GW2333-042811 | L11050025-11  | 10M87295    | 05/02/11 18:37 | 01  |
| FD02-042811       | L11050025-12  | 10M87296    | 05/02/11 19:09 | 01  |
| MW12GW1424-042811 | L11050025-13  | 10M87297    | 05/02/11 19:40 | 01  |

Report Name: BLANK\_SUMMARY  
PDF File ID: 2006771  
Report generated 05/11/2011 13:49



## METHOD BLANK SUMMARY

Login Number: L11050025  
Blank File ID: 10M87371  
Prep Date: 05/05/11 10:37  
Analyzed Date: 05/05/11 10:37  
Analyst: TMB

Work Group: WG363720  
Blank Sample ID: WG363720-01  
Instrument ID: HPMS10  
Method: 8260B

This Method Blank Applies To The Following Samples:

| Client ID         | Lab Sample ID | Lab File ID | Time Analyzed  | TAG |
|-------------------|---------------|-------------|----------------|-----|
| LCS               | WG363720-02   | 10M87372    | 05/05/11 11:09 | 01  |
| LCS2              | WG363720-03   | 10M87373    | 05/05/11 11:41 | 01  |
| MW22GW2535-042811 | L11050025-09  | 10M87380    | 05/05/11 15:23 | 01  |
| MW23GW3040-042811 | L11050025-10  | 10M87381    | 05/05/11 15:54 | 01  |
| MW10GW1732-042811 | L11050025-14  | 10M87382    | 05/05/11 16:26 | 01  |
| MW19GW1828-042811 | L11050025-15  | 10M87383    | 05/05/11 16:58 | 01  |

Report Name: BLANK\_SUMMARY  
PDF File ID: 2006771  
Report generated 05/11/2011 13:49





## METHOD BLANK SUMMARY

Login Number: L11050025  
Blank File ID: 11M74030  
Prep Date: 05/03/11 11:15  
Analyzed Date: 05/03/11 11:15  
Analyst: TMB

Work Group: WG363415  
Blank Sample ID: WG363415-01  
Instrument ID: HPMS11  
Method: 8260B

This Method Blank Applies To The Following Samples:

| Client ID             | Lab Sample ID | Lab File ID | Time Analyzed  | TAG |
|-----------------------|---------------|-------------|----------------|-----|
| LCS                   | WG363415-02   | 11M74031    | 05/03/11 11:46 | 01  |
| MW07GW2030-042711-MS  | L11050025-02  | 11M74032    | 05/03/11 12:17 | 01  |
| MW07GW2030-042711-MSD | L11050025-03  | 11M74033    | 05/03/11 12:47 | 01  |
| MW07GW2030-042711     | L11050025-01  | 11M74036    | 05/03/11 14:20 | 01  |
| MW18GW3035-042711     | L11050025-06  | 11M74037    | 05/03/11 14:51 | 01  |

Report Name: BLANK\_SUMMARY  
PDF File ID: 2006771  
Report generated 05/11/2011 13:49



## METHOD BLANK SUMMARY

Login Number: L11050025  
Blank File ID: 8M369979  
Prep Date: 05/05/11 13:18  
Analyzed Date: 05/05/11 13:18  
Analyst: ADC

Work Group: WG363762  
Blank Sample ID: WG363762-01  
Instrument ID: HPMS8  
Method: 8260B

This Method Blank Applies To The Following Samples:

| Client ID         | Lab Sample ID | Lab File ID | Time Analyzed  | TAG |
|-------------------|---------------|-------------|----------------|-----|
| LCS               | WG363762-02   | 8M369980    | 05/05/11 13:49 | 01  |
| MW09GW1424-042811 | L11050025-16  | 8M369985    | 05/05/11 16:26 | 01  |
| MW03GW1626-042811 | L11050025-17  | 8M369986    | 05/05/11 16:57 | 01  |

Report Name: BLANK\_SUMMARY  
PDF File ID: 2006771  
Report generated 05/11/2011 13:49



## METHOD BLANK SUMMARY

Login Number: L11050025 Work Group: WG363971  
Blank File ID: 8M370037 Blank Sample ID: WG363971-01  
Prep Date: 05/09/11 10:02 Instrument ID: HPMS8  
Analyzed Date: 05/09/11 10:02 Method: 8260B  
Analyst: MES

This Method Blank Applies To The Following Samples:

| Client ID         | Lab Sample ID | Lab File ID | Time Analyzed  | TAG  |
|-------------------|---------------|-------------|----------------|------|
| LCS               | WG363971-02   | 8M370038    | 05/09/11 10:33 | 01   |
| MW16GW1020-042711 | L11050025-08  | 8M370049    | 05/09/11 16:18 | DL02 |

Report Name: BLANK\_SUMMARY  
PDF File ID: 2006771  
Report generated 05/11/2011 13:49



Microbac Laboratories Inc.  
METHOD BLANK REPORT

Login Number: L11050025 Prep Date: 05/02/11 14:24 Sample ID: WG363418-01  
Instrument ID: HPMS10 Run Date: 05/02/11 14:24 Prep Method: 5030B/5030C/503  
File ID: 10M87287 Analyst: TMB Method: 8260B  
Workgroup (AAB#): WG363418 Matrix: Water Units: ug/L  
Contract #: \_\_\_\_\_ Cal ID: HPMS10 - 06-APR-11

| Analytes               | MDL   | RL   | Concentration | Dilution | Qualifier |
|------------------------|-------|------|---------------|----------|-----------|
| Bromomethane           | 0.500 | 10.0 | 0.500         | 1        | U         |
| Chloroform             | 0.125 | 5.00 | 0.125         | 1        | U         |
| Chloromethane          | 0.500 | 10.0 | 0.500         | 1        | U         |
| Methylene chloride     | 0.250 | 5.00 | 0.250         | 1        | U         |
| Trichloroethene        | 0.250 | 5.00 | 0.250         | 1        | U         |
| Trichlorofluoromethane | 0.250 | 10.0 | 0.250         | 1        | U         |

| Surrogates            | % Recovery | Surrogate Limits | Qualifier |
|-----------------------|------------|------------------|-----------|
| Dibromofluoromethane  | 101        | 86 - 118         | PASS      |
| 1,2-Dichloroethane-d4 | 97.9       | 80 - 120         | PASS      |
| Toluene-d8            | 105        | 88 - 110         | PASS      |
| 4-Bromofluorobenzene  | 93.6       | 86 - 115         | PASS      |

MDL Method Detection Limit  
RL Reporting/Practical Quantitation Limit  
ND Analyte Not detected at or above reporting limit  
\* |Analyte concentration| > RL

Report Name: BLANK  
PDF ID: 2006772  
11-MAY-2011 13:49





Microbac Laboratories Inc.  
METHOD BLANK REPORT

Login Number: L11050025 Prep Date: 05/05/11 10:37 Sample ID: WG363720-01  
Instrument ID: HPMS10 Run Date: 05/05/11 10:37 Prep Method: 5030B/5030C/503  
File ID: 10M87371 Analyst: TMB Method: 8260B  
Workgroup (AAB#): WG363720 Matrix: Water Units: ug/L  
Contract #: \_\_\_\_\_ Cal ID: HPMS10 - 06-APR-11

| Analytes               | MDL   | RL   | Concentration | Dilution | Qualifier |
|------------------------|-------|------|---------------|----------|-----------|
| Bromomethane           | 0.500 | 10.0 | 0.500         | 1        | U         |
| Chloroform             | 0.125 | 5.00 | 0.125         | 1        | U         |
| Chloromethane          | 0.500 | 10.0 | 0.500         | 1        | U         |
| Methylene chloride     | 0.250 | 5.00 | 0.250         | 1        | U         |
| Trichloroethene        | 0.250 | 5.00 | 0.250         | 1        | U         |
| Trichlorofluoromethane | 0.250 | 10.0 | 0.250         | 1        | U         |

| Surrogates            | % Recovery | Surrogate Limits | Qualifier |
|-----------------------|------------|------------------|-----------|
| Dibromofluoromethane  | 99.7       | 86 - 118         | PASS      |
| 1,2-Dichloroethane-d4 | 99.2       | 80 - 120         | PASS      |
| Toluene-d8            | 105        | 88 - 110         | PASS      |
| 4-Bromofluorobenzene  | 92.3       | 86 - 115         | PASS      |

MDL Method Detection Limit  
RL Reporting/Practical Quantitation Limit  
ND Analyte Not detected at or above reporting limit  
\* |Analyte concentration| > RL

Report Name: BLANK  
PDF ID: 2006772  
11-MAY-2011 13:49



Microbac Laboratories Inc.  
METHOD BLANK REPORT

Login Number: L11050025 Prep Date: 05/03/11 11:15 Sample ID: WG363415-01  
Instrument ID: HPMS11 Run Date: 05/03/11 11:15 Prep Method: 5030B/5030C/503  
File ID: 11M74030 Analyst: TMB Method: 8260B  
Workgroup (AAB#): WG363415 Matrix: Water Units: ug/L  
Contract #: \_\_\_\_\_ Cal ID: HPMS11 - 08-APR-11

| Analytes               | MDL   | RL   | Concentration | Dilution | Qualifier |
|------------------------|-------|------|---------------|----------|-----------|
| Bromomethane           | 0.500 | 10.0 | 0.500         | 1        | U         |
| Chloroform             | 0.125 | 5.00 | 0.125         | 1        | U         |
| Chloromethane          | 0.500 | 10.0 | 0.500         | 1        | U         |
| Methylene chloride     | 0.250 | 5.00 | 0.250         | 1        | U         |
| Trichloroethene        | 0.250 | 5.00 | 0.250         | 1        | U         |
| Trichlorofluoromethane | 0.250 | 10.0 | 0.250         | 1        | U         |

| Surrogates            | % Recovery | Surrogate Limits | Qualifier |
|-----------------------|------------|------------------|-----------|
| Dibromofluoromethane  | 97.4       | 86 - 118         | PASS      |
| 1,2-Dichloroethane-d4 | 101        | 80 - 120         | PASS      |
| Toluene-d8            | 99.2       | 88 - 110         | PASS      |
| 4-Bromofluorobenzene  | 101        | 86 - 115         | PASS      |

MDL Method Detection Limit  
RL Reporting/Practical Quantitation Limit  
ND Analyte Not detected at or above reporting limit  
\* |Analyte concentration| > RL

Report Name: BLANK  
PDF ID: 2006772  
11-MAY-2011 13:49



Microbac Laboratories Inc.  
METHOD BLANK REPORT

Login Number: L11050025 Prep Date: 05/05/11 13:18 Sample ID: WG363762-01  
Instrument ID: HPMS8 Run Date: 05/05/11 13:18 Prep Method: 5030B/5030C/503  
File ID: 8M369979 Analyst: ADC Method: 8260B  
Workgroup (AAB#): WG363762 Matrix: Water Units: ug/L  
Contract #: \_\_\_\_\_ Cal ID: HPMS8 - 16-APR-11

| Analytes               | MDL   | RL   | Concentration | Dilution | Qualifier |
|------------------------|-------|------|---------------|----------|-----------|
| Bromomethane           | 0.500 | 10.0 | 0.500         | 1        | U         |
| Chloroform             | 0.125 | 5.00 | 0.125         | 1        | U         |
| Chloromethane          | 0.500 | 10.0 | 0.500         | 1        | U         |
| Methylene chloride     | 0.250 | 5.00 | 0.250         | 1        | U         |
| Trichloroethene        | 0.250 | 5.00 | 0.250         | 1        | U         |
| Trichlorofluoromethane | 0.250 | 10.0 | 0.250         | 1        | U         |

| Surrogates            | % Recovery | Surrogate Limits | Qualifier |
|-----------------------|------------|------------------|-----------|
| Dibromofluoromethane  | 100        | 86 - 118         | PASS      |
| 1,2-Dichloroethane-d4 | 98.6       | 80 - 120         | PASS      |
| Toluene-d8            | 92.9       | 88 - 110         | PASS      |
| 4-Bromofluorobenzene  | 94.9       | 86 - 115         | PASS      |

MDL Method Detection Limit  
RL Reporting/Practical Quantitation Limit  
ND Analyte Not detected at or above reporting limit  
\* |Analyte concentration| > RL

Report Name: BLANK  
PDF ID: 2006772  
11-MAY-2011 13:49



Microbac Laboratories Inc.  
METHOD BLANK REPORT

Login Number: L11050025 Prep Date: 05/09/11 10:02 Sample ID: WG363971-01  
Instrument ID: HPMS8 Run Date: 05/09/11 10:02 Prep Method: 5030B/5030C/503  
File ID: 8M370037 Analyst: MES Method: 8260B  
Workgroup (AAB#): WG363971 Matrix: Water Units: ug/L  
Contract #: \_\_\_\_\_ Cal ID: HPMS8 - 16-APR-11

| Analytes               | MDL   | RL   | Concentration | Dilution | Qualifier |
|------------------------|-------|------|---------------|----------|-----------|
| Bromomethane           | 0.500 | 10.0 | 0.500         | 1        | U         |
| Chloroform             | 0.125 | 5.00 | 0.125         | 1        | U         |
| Chloromethane          | 0.500 | 10.0 | 0.500         | 1        | U         |
| Methylene chloride     | 0.250 | 5.00 | 0.250         | 1        | U         |
| Trichloroethene        | 0.250 | 5.00 | 0.250         | 1        | U         |
| Trichlorofluoromethane | 0.250 | 10.0 | 0.250         | 1        | U         |

| Surrogates            | % Recovery | Surrogate Limits | Qualifier |
|-----------------------|------------|------------------|-----------|
| Dibromofluoromethane  | 97.3       | 86 - 118         | PASS      |
| 1,2-Dichloroethane-d4 | 98.4       | 80 - 120         | PASS      |
| Toluene-d8            | 92.0       | 88 - 110         | PASS      |
| 4-Bromofluorobenzene  | 95.1       | 86 - 115         | PASS      |

MDL Method Detection Limit  
RL Reporting/Practical Quantitation Limit  
ND Analyte Not detected at or above reporting limit  
\* |Analyte concentration| > RL

Report Name: BLANK  
PDF ID: 2006772  
11-MAY-2011 13:49





**Microbac Laboratories Inc.**  
**LABORATORY CONTROL SAMPLE (LCS)**

Login Number: L11050025      Run Date: 05/02/2011      Sample ID: WG363418-02  
 Instrument ID: HPMS10      Run Time: 14:56      Prep Method: 5030B/5030C/503  
 File ID: 10M87288      Analyst: TMB      Method: 8260B  
 Workgroup (AAB#): WG363418      Matrix: Water      Units: ug/L  
 QC Key: ASHLAND      Lot#: STD45193      Cal ID: HPMS10 - 06-APR-11

| Analytes               | Expected | Found | % Rec | LCS Limits | Q |
|------------------------|----------|-------|-------|------------|---|
| Bromomethane           | 20.0     | 17.3  | 86.3  | 30 - 145   |   |
| Chloroform             | 20.0     | 20.8  | 104   | 80 - 125   |   |
| Chloromethane          | 20.0     | 22.6  | 113   | 40 - 125   |   |
| Methylene chloride     | 20.0     | 19.8  | 98.9  | 80 - 123   |   |
| Trichloroethene        | 20.0     | 20.4  | 102   | 80 - 122   |   |
| Trichlorofluoromethane | 20.0     | 23.1  | 116   | 62 - 151   |   |

| Surrogates            | % Recovery | Surrogate Limits | Qualifier |
|-----------------------|------------|------------------|-----------|
| Dibromofluoromethane  | 102        | 86 - 118         | PASS      |
| 1,2-Dichloroethane-d4 | 95.2       | 80 - 120         | PASS      |
| Toluene-d8            | 105        | 88 - 110         | PASS      |
| 4-Bromofluorobenzene  | 91.0       | 86 - 115         | PASS      |

\* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008  
 PDF File ID: 1998739  
 Report generated: 05/10/2011 13:10



**Microbac Laboratories Inc.  
LABORATORY CONTROL SAMPLE (LCS)**

Login Number: L11050025      Run Date: 05/03/2011      Sample ID: WG363415-02  
 Instrument ID: HPMS11      Run Time: 11:46      Prep Method: 5030B/5030C/503  
 File ID: 11M74031      Analyst: TMB      Method: 8260B  
 Workgroup (AAB#): WG363415      Matrix: Water      Units: ug/L  
 QC Key: ASHLAND      Lot#: STD45193      Cal ID: HPMS11 - 08-APR-11

| Analytes               | Expected | Found | % Rec | LCS Limits | Q |
|------------------------|----------|-------|-------|------------|---|
| Bromomethane           | 20.0     | 16.5  | 82.4  | 30 - 145   |   |
| Chloroform             | 20.0     | 22.2  | 111   | 80 - 125   |   |
| Chloromethane          | 20.0     | 21.6  | 108   | 40 - 125   |   |
| Methylene chloride     | 20.0     | 20.6  | 103   | 80 - 123   |   |
| Trichloroethene        | 20.0     | 21.8  | 109   | 80 - 122   |   |
| Trichlorofluoromethane | 20.0     | 23.7  | 118   | 62 - 151   |   |

| Surrogates            | % Recovery | Surrogate Limits | Qualifier |
|-----------------------|------------|------------------|-----------|
| Dibromofluoromethane  | 100        | 86 - 118         | PASS      |
| 1,2-Dichloroethane-d4 | 103        | 80 - 120         | PASS      |
| Toluene-d8            | 98.1       | 88 - 110         | PASS      |
| 4-Bromofluorobenzene  | 101        | 86 - 115         | PASS      |

\* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008  
 PDF File ID: 1998739  
 Report generated: 05/10/2011 13:10



Microbac Laboratories Inc.  
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11050025 Run Date: 05/05/2011 Sample ID: WG363762-02  
Instrument ID: HPMS8 Run Time: 13:49 Prep Method: 5030B/5030C/503  
File ID: 8M369980 Analyst: ADC Method: 8260B  
Workgroup (AAB#): WG363762 Matrix: Water Units: ug/L  
QC Key: ASHLAND Lot#: STD45358 Cal ID: HPMS8 - 16-APR-11

| Analytes               | Expected | Found | % Rec | LCS Limits | Q |
|------------------------|----------|-------|-------|------------|---|
| Bromomethane           | 20.0     | 17.0  | 84.8  | 30 - 145   |   |
| Chloroform             | 20.0     | 21.6  | 108   | 80 - 125   |   |
| Chloromethane          | 20.0     | 20.6  | 103   | 40 - 125   |   |
| Methylene chloride     | 20.0     | 19.8  | 98.9  | 80 - 123   |   |
| Trichloroethene        | 20.0     | 20.6  | 103   | 80 - 122   |   |
| Trichlorofluoromethane | 20.0     | 22.8  | 114   | 62 - 151   |   |

| Surrogates            | % Recovery | Surrogate Limits | Qualifier |
|-----------------------|------------|------------------|-----------|
| Dibromofluoromethane  | 98.5       | 86 - 118         | PASS      |
| 1,2-Dichloroethane-d4 | 97.2       | 80 - 120         | PASS      |
| Toluene-d8            | 92.8       | 88 - 110         | PASS      |
| 4-Bromofluorobenzene  | 95.4       | 86 - 115         | PASS      |

\* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008  
PDF File ID: 1998739  
Report generated: 05/10/2011 13:10



**Microbac Laboratories Inc.  
LABORATORY CONTROL SAMPLE (LCS)**

**Login Number:** L11050025      **Run Date:** 05/09/2011      **Sample ID:** WG363971-02  
**Instrument ID:** HPMS8      **Run Time:** 10:33      **Prep Method:** 5030B/5030C/503  
**File ID:** 8M370038      **Analyst:** MES      **Method:** 8260B  
**Workgroup (AAB#):** WG363971      **Matrix:** Water      **Units:** ug/L  
**QC Key:** ASHLAND      **Lot#:** STD45193      **Cal ID:** HPMS8 - 16-APR-11

| Analytes               | Expected | Found | % Rec | LCS Limits | Q |
|------------------------|----------|-------|-------|------------|---|
| Bromomethane           | 20.0     | 20.1  | 101   | 30 - 145   |   |
| Chloroform             | 20.0     | 22.8  | 114   | 80 - 125   |   |
| Chloromethane          | 20.0     | 24.1  | 121   | 40 - 125   |   |
| Methylene chloride     | 20.0     | 20.9  | 105   | 80 - 123   |   |
| Trichloroethene        | 20.0     | 22.6  | 113   | 80 - 122   |   |
| Trichlorofluoromethane | 20.0     | 25.4  | 127   | 62 - 151   |   |

| Surrogates            | % Recovery | Surrogate Limits | Qualifier |
|-----------------------|------------|------------------|-----------|
| Dibromofluoromethane  | 99.7       | 86 - 118         | PASS      |
| 1,2-Dichloroethane-d4 | 97.8       | 80 - 120         | PASS      |
| Toluene-d8            | 90.7       | 88 - 110         | PASS      |
| 4-Bromofluorobenzene  | 93.8       | 86 - 115         | PASS      |

\* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008  
 PDF File ID: 1998739  
 Report generated: 05/10/2011 13:10





**Microbac Laboratories Inc.**  
**LABORATORY CONTROL SAMPLE (LCS)**

Login Number: L11050025      Analyst: TMB      Prep Method: 5030B/5030C/503  
Instrument ID: HPMS10      Matrix: Water      Method: 8260B  
Workgroup (AAB#): WG363720      Units: ug/L  
QC Key: ASHLAND      Lot #: STD45358

Sample ID: WG363720-02 LCS      File ID: 10M87372      Run Date: 05/05/2011 11:09  
Sample ID: WG363720-03 LCS2      File ID: 10M87373      Run Date: 05/05/2011 11:41

| Analytes               | LCS   |       |       | LCS2  |       |       | %RPD | %Rec Limits | RPD Lmt | Q |
|------------------------|-------|-------|-------|-------|-------|-------|------|-------------|---------|---|
|                        | Known | Found | % REC | Known | Found | % REC |      |             |         |   |
| Bromomethane           | 20.0  | 16.6  | 82.9  | 20.0  | 18.0  | 90.0  | 8.18 | 30 - 145    | 20      |   |
| Chloroform             | 20.0  | 20.5  | 102   | 20.0  | 21.4  | 107   | 4.50 | 80 - 125    | 20      |   |
| Chloromethane          | 20.0  | 22.3  | 111   | 20.0  | 23.1  | 116   | 3.61 | 40 - 125    | 20      |   |
| Methylene chloride     | 20.0  | 19.9  | 99.3  | 20.0  | 20.4  | 102   | 2.44 | 80 - 123    | 20      |   |
| Trichloroethene        | 20.0  | 20.0  | 100   | 20.0  | 21.2  | 106   | 5.71 | 80 - 122    | 20      |   |
| Trichlorofluoromethane | 20.0  | 22.8  | 114   | 20.0  | 23.9  | 119   | 4.81 | 62 - 151    | 20      |   |

| Surogates             | LCS        | LCS2       | Surrogate Limits | Qualifier |
|-----------------------|------------|------------|------------------|-----------|
|                       | % Recovery | % Recovery |                  |           |
| 1,2-Dichloroethane-d4 | 97.0       | 99.9       | 80 - 120         | PASS      |
| Dibromofluoromethane  | 100        | 103        | 86 - 118         | PASS      |
| 4-Bromofluorobenzene  | 88.3       | 90.1       | 86 - 115         | PASS      |
| Toluene-d8            | 105        | 105        | 88 - 110         | PASS      |

\* EXCEEDS %REC LIMIT

# EXCEEDS RPD LIMIT

LCS\_LCS2 - Modified 03/06/2008  
PDF File ID: 2002947  
Report generated: 05/11/2011 13:49



## MS/MSD REPORT

Loginnum: L11050025 Cal ID: HPMS11- 08-APR-11  
 Instrument ID: HPMS11 Contract #: \_\_\_\_\_  
 Parent ID: L11050025-01 File ID: 11M74036 Dil: 1  
 Sample ID: L11050025-02 MS File ID: 11M74032 Dil: 1  
 Sample ID: L11050025-03 MSD File ID: 11M74033 Dil: 1

Worknum: WG363415  
 Prep Method: 5030B/5030C/  
 Method: 5035A  
 Matrix: 8260B  
 Units: Water  
ug/L

| Analyte                | Parent | MS<br>Spiked | MS<br>Found | MS<br>%Rec | MSD<br>Spiked | MSD<br>Found | MSD<br>%Rec | %RPD  | %Rec<br>Limits | RPD<br>Limit | Q |
|------------------------|--------|--------------|-------------|------------|---------------|--------------|-------------|-------|----------------|--------------|---|
| Bromomethane           | U      | 20.0         | 17.1        | 85.5       | 20.0          | 17.7         | 88.3        | 3.14  | 30 - 145       | 20           |   |
| Chloroform             | U      | 20.0         | 21.8        | 109        | 20.0          | 21.5         | 107         | 1.57  | 80 - 125       | 20           |   |
| Chloromethane          | U      | 20.0         | 20.9        | 105        | 20.0          | 21.2         | 106         | 1.21  | 40 - 125       | 20           |   |
| Methylene chloride     | U      | 20.0         | 20.2        | 101        | 20.0          | 20.0         | 99.8        | 1.18  | 80 - 123       | 20           |   |
| Trichloroethene        | U      | 20.0         | 20.5        | 102        | 20.0          | 20.6         | 103         | 0.865 | 80 - 122       | 20           |   |
| Trichlorofluoromethane | 6.01   | 20.0         | 27.1        | 105        | 20.0          | 26.7         | 104         | 1.31  | 62 - 151       | 20           |   |

\* FAILS %REC LIMIT

# FAILS RPD LIMIT

Microbac Laboratories Inc.  
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11050025  
Instrument: HPMS10  
Analyst: TMB  
Workgroup: WG360930

Tune ID: WG360930-01  
Run Date: 04/06/2011  
Run Time: 09:49  
File ID: 10M86746

Cal ID: HPMS10-06-APR-11

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50.0        | 95.0         | 15.0         | 40.0         | 17.8      | 4481    | PASS             |
| 75.0        | 95.0         | 30.0         | 60.0         | 50.0      | 12550   | PASS             |
| 95.0        | 95.0         | 100          | 100          | 100       | 25104   | PASS             |
| 96.0        | 95.0         | 5.00         | 9.00         | 7.29      | 1829    | PASS             |
| 173         | 174          | 0            | 2.00         | 0         | 0       | PASS             |
| 174         | 95.0         | 50.0         | 100          | 90.3      | 22669   | PASS             |
| 175         | 174          | 5.00         | 9.00         | 7.50      | 1700    | PASS             |
| 176         | 174          | 95.0         | 101          | 100       | 22704   | PASS             |
| 177         | 176          | 5.00         | 9.00         | 6.95      | 1579    | PASS             |

This check relates to the following samples:

| Lab ID      | Client ID | Tag | Date Analyzed    | Q |
|-------------|-----------|-----|------------------|---|
| WG360930-02 | STD       | 01  | 04/06/2011 10:15 |   |
| WG360930-03 | STD       | 01  | 04/06/2011 10:46 |   |
| WG360930-04 | STD       | 01  | 04/06/2011 11:18 |   |
| WG360930-05 | STD       | 01  | 04/06/2011 11:49 |   |
| WG360930-06 | STD       | 01  | 04/06/2011 12:21 |   |
| WG360930-07 | STD       | 01  | 04/06/2011 12:52 |   |
| WG360930-08 | STD-CCV   | 01  | 04/06/2011 13:24 |   |
| WG360930-09 | STD       | 01  | 04/06/2011 13:55 |   |
| WG360930-10 | STD       | 01  | 04/06/2011 14:27 |   |
| WG360930-11 | STD       | 01  | 04/06/2011 14:58 |   |
| WG360930-12 | SSCV      | 01  | 04/06/2011 16:33 |   |

\* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008  
PDF File ID: 2006775  
Report generated 05/11/2011 13:49



Microbac Laboratories Inc.  
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11050025  
Instrument: HPMS10  
Analyst: TMB  
Workgroup: WG363417

Tune ID: WG363417-01  
Run Date: 05/02/2011  
Run Time: 12:24  
File ID: 10M87283

Cal ID: HPMS10-06-APR-11

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50.0        | 95.0         | 15.0         | 40.0         | 19.9      | 4988    | PASS             |
| 75.0        | 95.0         | 30.0         | 60.0         | 50.7      | 12697   | PASS             |
| 95.0        | 95.0         | 100          | 100          | 100       | 25058   | PASS             |
| 96.0        | 95.0         | 5.00         | 9.00         | 7.30      | 1828    | PASS             |
| 173         | 174          | 0            | 2.00         | 0         | 0       | PASS             |
| 174         | 95.0         | 50.0         | 100          | 89.4      | 22408   | PASS             |
| 175         | 174          | 5.00         | 9.00         | 8.53      | 1912    | PASS             |
| 176         | 174          | 95.0         | 101          | 97.1      | 21760   | PASS             |
| 177         | 176          | 5.00         | 9.00         | 6.56      | 1427    | PASS             |

This check relates to the following samples:

| Lab ID       | Client ID         | Tag | Date Analyzed    | Q |
|--------------|-------------------|-----|------------------|---|
| WG363417-02  | CCV               | 01  | 05/02/2011 13:21 |   |
| WG363418-01  | BLANK             | 01  | 05/02/2011 14:24 |   |
| WG363418-02  | LCS               | 01  | 05/02/2011 14:56 |   |
| L11050025-18 | TRIPBLANK-042811  | 01  | 05/02/2011 16:30 |   |
| L11050025-04 | MW21GW2434-042711 | 01  | 05/02/2011 17:02 |   |
| L11050025-05 | FD01-042711       | 01  | 05/02/2011 17:33 |   |
| L11050025-07 | BMWGW1828-042711  | 01  | 05/02/2011 18:05 |   |
| L11050025-11 | MW20GW2333-042811 | 01  | 05/02/2011 18:37 |   |
| L11050025-12 | FD02-042811       | 01  | 05/02/2011 19:09 |   |
| L11050025-13 | MW12GW1424-042811 | 01  | 05/02/2011 19:40 |   |
| WG363418-06  | BLANK2            | 01  | 05/03/2011 00:57 | * |

\* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008  
PDF File ID: 2006775  
Report generated 05/11/2011 13:49



Microbac Laboratories Inc.  
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11050025  
Instrument: HPMS10  
Analyst: TMB  
Workgroup: WG363719

Tune ID: WG363719-01  
Run Date: 05/05/2011  
Run Time: 08:37  
File ID: 10M87367

Cal ID: HPMS10-06-APR-11

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50.0        | 95.0         | 15.0         | 40.0         | 21.6      | 4440    | PASS             |
| 75.0        | 95.0         | 30.0         | 60.0         | 54.5      | 11205   | PASS             |
| 95.0        | 95.0         | 100          | 100          | 100       | 20551   | PASS             |
| 96.0        | 95.0         | 5.00         | 9.00         | 7.32      | 1504    | PASS             |
| 173         | 174          | 0            | 2.00         | 0         | 0       | PASS             |
| 174         | 95.0         | 50.0         | 100          | 84.6      | 17391   | PASS             |
| 175         | 174          | 5.00         | 9.00         | 8.02      | 1395    | PASS             |
| 176         | 174          | 95.0         | 101          | 95.3      | 16566   | PASS             |
| 177         | 176          | 5.00         | 9.00         | 7.19      | 1191    | PASS             |

This check relates to the following samples:

| Lab ID       | Client ID         | Tag | Date Analyzed    | Q |
|--------------|-------------------|-----|------------------|---|
| WG363719-02  | CCV               | 01  | 05/05/2011 09:34 |   |
| WG363720-01  | BLANK             | 01  | 05/05/2011 10:37 |   |
| WG363720-02  | LCS               | 01  | 05/05/2011 11:09 |   |
| WG363720-03  | LCS2              | 01  | 05/05/2011 11:41 |   |
| L11050025-09 | MW22GW2535-042811 | 01  | 05/05/2011 15:23 |   |
| L11050025-10 | MW23GW3040-042811 | 01  | 05/05/2011 15:54 |   |
| L11050025-14 | MW10GW1732-042811 | 01  | 05/05/2011 16:26 |   |
| L11050025-15 | MW19GW1828-042811 | 01  | 05/05/2011 16:58 |   |

\* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008  
PDF File ID: 2006775  
Report generated 05/11/2011 13:49





Microbac Laboratories Inc.  
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11050025  
Instrument: HPMS11  
Analyst: MES  
Workgroup: WG361240

Tune ID: WG361240-01  
Run Date: 04/08/2011  
Run Time: 17:24  
File ID: 11M73573

Cal ID: HPMS11-08-APR-11

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50.0        | 95.0         | 15.0         | 40.0         | 24.9      | 8738    | PASS             |
| 75.0        | 95.0         | 30.0         | 60.0         | 48.6      | 17052   | PASS             |
| 95.0        | 95.0         | 100          | 100          | 100       | 35064   | PASS             |
| 96.0        | 95.0         | 5.00         | 9.00         | 6.52      | 2285    | PASS             |
| 173         | 174          | 0            | 2.00         | 0         | 0       | PASS             |
| 174         | 95.0         | 50.0         | 100          | 87.5      | 30672   | PASS             |
| 175         | 174          | 5.00         | 9.00         | 7.38      | 2265    | PASS             |
| 176         | 174          | 95.0         | 101          | 95.5      | 29285   | PASS             |
| 177         | 176          | 5.00         | 9.00         | 6.75      | 1978    | PASS             |

This check relates to the following samples:

| Lab ID      | Client ID | Tag | Date Analyzed    | Q |
|-------------|-----------|-----|------------------|---|
| WG361240-02 | STD       | 01  | 04/08/2011 17:49 |   |
| WG361240-03 | STD       | 01  | 04/08/2011 18:20 |   |
| WG361240-04 | STD       | 01  | 04/08/2011 18:51 |   |
| WG361240-05 | STD       | 01  | 04/08/2011 19:21 |   |
| WG361240-06 | STD       | 01  | 04/08/2011 19:52 |   |
| WG361240-07 | STD       | 01  | 04/08/2011 20:22 |   |
| WG361240-08 | STD-CCV   | 01  | 04/08/2011 20:53 |   |
| WG361240-09 | STD       | 01  | 04/08/2011 21:23 |   |
| WG361240-10 | STD       | 01  | 04/08/2011 21:54 |   |
| WG361240-11 | STD       | 01  | 04/08/2011 22:25 |   |
| WG361240-12 | SSCV      | 01  | 04/08/2011 23:26 |   |

\* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008  
PDF File ID: 2006775  
Report generated 05/11/2011 13:49



Microbac Laboratories Inc.  
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11050025  
Instrument: HPMS11  
Analyst: FJB  
Workgroup: WG363093

Tune ID: WG363093-01  
Run Date: 04/27/2011  
Run Time: 09:27  
File ID: 11M73927

Cal ID: HPMS11-08-APR-11

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50.0        | 95.0         | 15.0         | 40.0         | 28.3      | 6995    | PASS             |
| 75.0        | 95.0         | 30.0         | 60.0         | 48.8      | 12073   | PASS             |
| 95.0        | 95.0         | 100          | 100          | 100       | 24749   | PASS             |
| 96.0        | 95.0         | 5.00         | 9.00         | 7.28      | 1802    | PASS             |
| 173         | 174          | 0            | 2.00         | 0         | 0       | PASS             |
| 174         | 95.0         | 50.0         | 100          | 83.1      | 20556   | PASS             |
| 175         | 174          | 5.00         | 9.00         | 6.22      | 1279    | PASS             |
| 176         | 174          | 95.0         | 101          | 96.8      | 19905   | PASS             |
| 177         | 176          | 5.00         | 9.00         | 6.66      | 1325    | PASS             |

This check relates to the following samples:

| Lab ID      | Client ID | Tag | Date Analyzed    | Q |
|-------------|-----------|-----|------------------|---|
| WG363112-01 | STD       | 01  | 04/27/2011 10:57 |   |
| WG363112-02 | STD       | 01  | 04/27/2011 11:28 |   |
| WG363112-03 | STD       | 01  | 04/27/2011 12:02 |   |
| WG363112-04 | STD-CCV   | 01  | 04/27/2011 12:33 |   |
| WG363112-05 | STD       | 01  | 04/27/2011 13:08 |   |
| WG363112-06 | STD       | 01  | 04/27/2011 14:01 |   |
| WG363112-07 | STD       | 01  | 04/27/2011 14:32 |   |
| WG363112-08 | STD       | 01  | 04/27/2011 15:03 |   |
| WG363112-09 | SSCV      | 01  | 04/27/2011 16:04 |   |

\* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008  
PDF File ID: 2006775  
Report generated 05/11/2011 13:49



Microbac Laboratories Inc.  
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11050025  
Instrument: HPMS11  
Analyst: TMB  
Workgroup: WG363413

Tune ID: WG363413-01  
Run Date: 05/03/2011  
Run Time: 09:10  
File ID: 11M74026

Cal ID: HPMS11-08-APR-11

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50.0        | 95.0         | 15.0         | 40.0         | 26.0      | 16604   | PASS             |
| 75.0        | 95.0         | 30.0         | 60.0         | 50.2      | 32050   | PASS             |
| 95.0        | 95.0         | 100          | 100          | 100       | 63853   | PASS             |
| 96.0        | 95.0         | 5.00         | 9.00         | 7.08      | 4522    | PASS             |
| 173         | 174          | 0            | 2.00         | 0.207     | 109     | PASS             |
| 174         | 95.0         | 50.0         | 100          | 82.6      | 52770   | PASS             |
| 175         | 174          | 5.00         | 9.00         | 8.27      | 4362    | PASS             |
| 176         | 174          | 95.0         | 101          | 99.7      | 52624   | PASS             |
| 177         | 176          | 5.00         | 9.00         | 6.75      | 3554    | PASS             |

This check relates to the following samples:

| Lab ID       | Client ID             | Tag | Date Analyzed    | Q |
|--------------|-----------------------|-----|------------------|---|
| WG363413-02  | CCV                   | 01  | 05/03/2011 10:13 |   |
| WG363415-01  | BLANK                 | 01  | 05/03/2011 11:15 |   |
| WG363415-02  | LCS                   | 01  | 05/03/2011 11:46 |   |
| L11050025-02 | MW07GW2030-042711-MS  | 01  | 05/03/2011 12:17 |   |
| L11050025-03 | MW07GW2030-042711-MSD | 01  | 05/03/2011 12:47 |   |
| L11050025-01 | MW07GW2030-042711     | 01  | 05/03/2011 14:20 |   |
| L11050025-06 | MW18GW3035-042711     | 01  | 05/03/2011 14:51 |   |

\* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008  
PDF File ID: 2006775  
Report generated 05/11/2011 13:49



Microbac Laboratories Inc.  
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11050025

Instrument: HPMS8

Analyst: MES

Workgroup: WG362061

Tune ID: WG362061-01

Run Date: 04/15/2011

Run Time: 18:37

File ID: 8M369533

Cal ID: HPMS8 - 16-APR-11

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50.0        | 95.0         | 15.0         | 40.0         | 23.0      | 6251    | PASS             |
| 75.0        | 95.0         | 30.0         | 60.0         | 52.7      | 14283   | PASS             |
| 95.0        | 95.0         | 100          | 100          | 100       | 27120   | PASS             |
| 96.0        | 95.0         | 5.00         | 9.00         | 6.72      | 1823    | PASS             |
| 173         | 174          | 0            | 2.00         | 0         | 0       | PASS             |
| 174         | 95.0         | 50.0         | 100          | 91.3      | 24764   | PASS             |
| 175         | 174          | 5.00         | 9.00         | 6.19      | 1532    | PASS             |
| 176         | 174          | 95.0         | 101          | 97.4      | 24123   | PASS             |
| 177         | 176          | 5.00         | 9.00         | 6.78      | 1636    | PASS             |

This check relates to the following samples:

| Lab ID      | Client ID | Tag | Date Analyzed    | Q |
|-------------|-----------|-----|------------------|---|
| WG362061-03 | STD       | 01  | 04/15/2011 19:35 |   |
| WG362061-02 | STD       | 01  | 04/15/2011 20:39 |   |
| WG362061-04 | STD       | 01  | 04/15/2011 21:11 |   |
| WG362061-05 | STD       | 01  | 04/15/2011 21:42 |   |
| WG362061-06 | STD       | 01  | 04/15/2011 22:13 |   |
| WG362061-07 | STD-CCV   | 01  | 04/15/2011 22:45 |   |
| WG362061-08 | STD       | 01  | 04/15/2011 23:16 |   |
| WG362061-09 | STD       | 01  | 04/15/2011 23:47 |   |
| WG362061-10 | STD       | 01  | 04/16/2011 00:19 |   |
| WG362061-11 | SSCV      | 01  | 04/16/2011 01:21 |   |

\* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008  
PDF File ID: 2006775  
Report generated 05/11/2011 13:49



Microbac Laboratories Inc.  
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11050025

Instrument: HPMS8

Analyst: ADC

Workgroup: WG363761

Tune ID: WG363761-01

Run Date: 05/05/2011

Run Time: 11:18

File ID: 8M369975

Cal ID: HPMS8 - 16-APR-11

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50.0        | 95.0         | 15.0         | 40.0         | 22.0      | 9672    | PASS             |
| 75.0        | 95.0         | 30.0         | 60.0         | 50.8      | 22378   | PASS             |
| 95.0        | 95.0         | 100          | 100          | 100       | 44040   | PASS             |
| 96.0        | 95.0         | 5.00         | 9.00         | 6.81      | 2999    | PASS             |
| 173         | 174          | 0            | 2.00         | 0.457     | 182     | PASS             |
| 174         | 95.0         | 50.0         | 100          | 90.4      | 39821   | PASS             |
| 175         | 174          | 5.00         | 9.00         | 7.27      | 2893    | PASS             |
| 176         | 174          | 95.0         | 101          | 98.8      | 39362   | PASS             |
| 177         | 176          | 5.00         | 9.00         | 6.72      | 2645    | PASS             |

This check relates to the following samples:

| Lab ID       | Client ID         | Tag | Date Analyzed    | Q |
|--------------|-------------------|-----|------------------|---|
| WG363761-02  | CCV               | 01  | 05/05/2011 12:15 |   |
| WG363762-01  | BLANK             | 01  | 05/05/2011 13:18 |   |
| WG363762-02  | LCS               | 01  | 05/05/2011 13:49 |   |
| L11050025-16 | MW09GW1424-042811 | 01  | 05/05/2011 16:26 |   |
| L11050025-17 | MW03GW1626-042811 | 01  | 05/05/2011 16:57 |   |

\* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008  
PDF File ID: 2006775  
Report generated 05/11/2011 13:49





Microbac Laboratories Inc.  
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11050025  
Instrument: HPMS8  
Analyst: MES  
Workgroup: WG363970

Tune ID: WG363970-01  
Run Date: 05/09/2011  
Run Time: 08:33  
File ID: 8M370034

Cal ID: HPMS8-16-APR-11

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50.0        | 95.0         | 15.0         | 40.0         | 23.6      | 6065    | PASS             |
| 75.0        | 95.0         | 30.0         | 60.0         | 53.2      | 13642   | PASS             |
| 95.0        | 95.0         | 100          | 100          | 100       | 25650   | PASS             |
| 96.0        | 95.0         | 5.00         | 9.00         | 7.20      | 1846    | PASS             |
| 173         | 174          | 0            | 2.00         | 0         | 0       | PASS             |
| 174         | 95.0         | 50.0         | 100          | 87.4      | 22427   | PASS             |
| 175         | 174          | 5.00         | 9.00         | 7.93      | 1778    | PASS             |
| 176         | 174          | 95.0         | 101          | 99.6      | 22329   | PASS             |
| 177         | 176          | 5.00         | 9.00         | 6.35      | 1419    | PASS             |

This check relates to the following samples:

| Lab ID       | Client ID         | Tag  | Date Analyzed    | Q |
|--------------|-------------------|------|------------------|---|
| WG363970-02  | CCV               | 01   | 05/09/2011 08:59 |   |
| WG363971-01  | BLANK             | 01   | 05/09/2011 10:02 |   |
| WG363971-02  | LCS               | 01   | 05/09/2011 10:33 |   |
| L11050025-08 | MW16GW1020-042711 | DL02 | 05/09/2011 16:18 |   |
| WG363971-06  | BLANK2            | 01   | 05/09/2011 21:31 | * |

\* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008  
PDF File ID: 2006775  
Report generated 05/11/2011 13:49



Microbac Laboratories Inc.  
INITIAL CALIBRATION SUMMARY

Login Number: L11050025  
Analytical Method: 8260B  
ICAL Workgroup: WG360930

Instrument ID: HPMS10  
Initial Calibration Date: 06-APR-11 14:58  
Column ID: F

| Analyte                   |      | AVG RF | % RSD | LINEAR (R <sup>2</sup> ) | QUAD (R <sup>2</sup> ) |
|---------------------------|------|--------|-------|--------------------------|------------------------|
| Chloroform                | CCC  | 0.4472 | 3.91  |                          |                        |
| 1,1,2,2-Tetrachloroethane | SPCC | 0.5600 | 15.3  |                          | 1.00000                |
| 1,1-Dichloroethane        | SPCC | 0.4226 | 5.96  |                          |                        |
| Bromoform                 | SPCC | 0.1800 | 15.6  | 0.99900                  |                        |
| Chlorobenzene             | SPCC | 0.9006 | 6.54  |                          |                        |
| Chloromethane             | SPCC | 0.3527 | 10.2  |                          |                        |
| Bromomethane              |      | 0.1731 | 7.24  |                          |                        |
| Methylene Chloride        |      | 0.2518 | 1.47  |                          |                        |
| Trichloroethene           |      | 0.2776 | 5.35  |                          |                        |
| Trichlorofluoromethane    |      | 0.3880 | 9.60  |                          |                        |

R = Correlation coefficient; 0.995 minimum  
R<sup>2</sup> = Coefficient of determination; 0.99 minimum

If the %RSD is greater than the limit specified by the method or project QAP, then linear or quadratic equations will be used.

INT\_CAL - Modified 03/06/2008  
PDF File ID: 2006774  
Report generated 05/11/2011 13:49



Microbac Laboratories Inc.  
INITIAL CALIBRATION SUMMARY

Login Number: L11050025  
Analytical Method: 8260B  
ICAL Workgroup: WG361240

Instrument ID: HPMS11  
Initial Calibration Date: 08-APR-11 22:25  
Column ID: F

| Analyte                   |      | AVG RF | % RSD | LINEAR (R <sup>2</sup> ) | QUAD (R <sup>2</sup> ) |
|---------------------------|------|--------|-------|--------------------------|------------------------|
| Chloroform                | CCC  | 0.4198 | 7.25  |                          |                        |
| 1,1,2,2-Tetrachloroethane | SPCC | 0.4334 | 13.8  |                          |                        |
| 1,1-Dichloroethane        | SPCC | 0.5409 | 7.29  |                          |                        |
| Bromoform                 | SPCC | 0.1791 | 11.8  |                          |                        |
| Chlorobenzene             | SPCC | 0.8808 | 3.62  |                          |                        |
| Chloromethane             | SPCC | 0.4534 | 4.64  |                          |                        |
| Bromomethane              |      | 0.1870 | 4.69  |                          |                        |
| Methylene Chloride        |      | 0.2467 | 5.57  |                          |                        |
| Trichloroethene           |      | 0.2578 | 8.20  |                          |                        |
| Trichlorofluoromethane    |      | 0.3843 | 7.21  |                          |                        |

R = Correlation coefficient; 0.995 minimum  
R<sup>2</sup> = Coefficient of determination; 0.99 minimum

If the %RSD is greater than the limit specified by the method or project QAP, then linear or quadratic equations will be used.

INT\_CAL - Modified 03/06/2008  
PDF File ID:  
Report generated 05/11/2011 14:26



Microbac Laboratories Inc.  
INITIAL CALIBRATION SUMMARY

Login Number: L11050025  
Analytical Method: 8260B  
ICAL Workgroup: WG362061

Instrument ID: HPMS8  
Initial Calibration Date: 16-APR-11 00:19  
Column ID: F

| Analyte                   |      | AVG RF | % RSD | LINEAR (R <sup>2</sup> ) | QUAD (R <sup>2</sup> ) |
|---------------------------|------|--------|-------|--------------------------|------------------------|
| Chloroform                | CCC  | 0.5226 | 2.73  |                          |                        |
| 1,1,2,2-Tetrachloroethane | SPCC | 0.5680 | 7.88  |                          |                        |
| 1,1-Dichloroethane        | SPCC | 0.5224 | 2.76  |                          |                        |
| Bromoform                 | SPCC | 0.2633 | 8.68  |                          |                        |
| Chlorobenzene             | SPCC | 1.034  | 6.29  |                          |                        |
| Chloromethane             | SPCC | 0.4156 | 9.69  |                          |                        |
| Bromomethane              |      | 0.1886 | 19.3  | 1.00000                  |                        |
| Methylene Chloride        |      | 0.2873 | 8.90  |                          |                        |
| Trichloroethene           |      | 0.3126 | 4.39  |                          |                        |
| Trichlorofluoromethane    |      | 0.4975 | 7.75  |                          |                        |

R = Correlation coefficient; 0.995 minimum  
R<sup>2</sup> = Coefficient of determination; 0.99 minimum

If the %RSD is greater than the limit specified by the method or project QAP, then linear or quadratic equations will be used.

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PDF File ID: 2006774  
Report generated 05/11/2011 13:49



Login Number: L11050025  
Analytical Method: 8260B

Instrument ID: HPMS10  
Initial Calibration Date: 06-APR-11 14:58  
Column ID: F

| Analyte                   | WG360930-02 |            |        | WG360930-03 |            |        | WG360930-04 |            |        |
|---------------------------|-------------|------------|--------|-------------|------------|--------|-------------|------------|--------|
|                           | CONC        | RESP       | RF     | CONC        | RESP       | RF     | CONC        | RESP       | RF     |
| Chloroform                | 0.300       | 4034.00000 | 0.4358 | 0.400       | 5487.00000 | 0.4581 | 1.00        | 11930.0000 | 0.4049 |
| 1,1,2,2-Tetrachloroethane | NA          | NA         | NA     | 0.400       | 2142.00000 | 0.4934 | 1.00        | 7083.00000 | 0.6407 |
| 1,1-Dichloroethane        | NA          | NA         | NA     | 0.400       | 4579.00000 | 0.3823 | 1.00        | 11269.0000 | 0.3825 |
| Bromoform                 | NA          | NA         | NA     | NA          | NA         | NA     | 1.00        | 2900.00000 | 0.1241 |
| Chlorobenzene             | NA          | NA         | NA     | 0.400       | 8596.00000 | 0.9050 | 1.00        | 18788.0000 | 0.8040 |
| Chloromethane             | NA          | NA         | NA     | NA          | NA         | NA     | 1.00        | 11547.0000 | 0.3919 |
| Bromomethane              | NA          | NA         | NA     | NA          | NA         | NA     | 1.00        | 4995.00000 | 0.1695 |
| Methylene Chloride        | NA          | NA         | NA     | NA          | NA         | NA     | 1.00        | 7380.00000 | 0.2505 |
| Trichloroethene           | NA          | NA         | NA     | 0.400       | 3220.00000 | 0.2688 | 1.00        | 7226.00000 | 0.2453 |
| Trichlorofluoromethane    | NA          | NA         | NA     | 0.400       | 3684.00000 | 0.3076 | 1.00        | 10482.0000 | 0.3558 |

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Login Number: L11050025  
Analytical Method: 8260B

Instrument ID: HPMS10  
Initial Calibration Date: 06-APR-11 14:58  
Column ID: F

| Analyte                   | WG360930-05 |            |        | WG360930-06 |            |        | WG360930-07 |            |        |
|---------------------------|-------------|------------|--------|-------------|------------|--------|-------------|------------|--------|
|                           | CONC        | RESP       | RF     | CONC        | RESP       | RF     | CONC        | RESP       | RF     |
| Chloroform                | 2.00        | 26943.0000 | 0.4627 | 5.00        | 66960.0000 | 0.4557 | 20.0        | 265826.000 | 0.4505 |
| 1,1,2,2-Tetrachloroethane | 2.00        | 16359.0000 | 0.7461 | 5.00        | 30491.0000 | 0.5505 | 20.0        | 121834.000 | 0.5247 |
| 1,1-Dichloroethane        | 2.00        | 25261.0000 | 0.4338 | 5.00        | 63239.0000 | 0.4304 | 20.0        | 254447.000 | 0.4312 |
| Bromoform                 | 2.00        | 9028.00000 | 0.1952 | 5.00        | 18078.0000 | 0.1550 | 20.0        | 82551.0000 | 0.1731 |
| Chlorobenzene             | 2.00        | 47207.0000 | 1.021  | 5.00        | 104129.000 | 0.8929 | 20.0        | 421166.000 | 0.8832 |
| Chloromethane             | 2.00        | 23974.0000 | 0.4117 | 5.00        | 52192.0000 | 0.3552 | 20.0        | 187065.000 | 0.3170 |
| Bromomethane              | 2.00        | 10409.0000 | 0.1787 | 5.00        | 23820.0000 | 0.1621 | 20.0        | 92338.0000 | 0.1565 |
| Methylene Chloride        | 2.00        | 15105.0000 | 0.2594 | 5.00        | 37244.0000 | 0.2535 | 20.0        | 147347.000 | 0.2497 |
| Trichloroethene           | 2.00        | 17183.0000 | 0.2951 | 5.00        | 41466.0000 | 0.2822 | 20.0        | 166991.000 | 0.2830 |
| Trichlorofluoromethane    | 2.00        | 24156.0000 | 0.4148 | 5.00        | 59543.0000 | 0.4052 | 20.0        | 236997.000 | 0.4017 |

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Login Number: L11050025  
Analytical Method: 8260B

Instrument ID: HPMS10  
Initial Calibration Date: 06-APR-11 14:58  
Column ID: F

| Analyte                   | WG360930-08 |            |        | WG360930-09 |            |        | WG360930-10 |            |        |
|---------------------------|-------------|------------|--------|-------------|------------|--------|-------------|------------|--------|
|                           | CONC        | RESP       | RF     | CONC        | RESP       | RF     | CONC        | RESP       | RF     |
| Chloroform                | 50.0        | 670190.000 | 0.4525 | 100         | 1325376.00 | 0.4516 | 200         | 2678910.00 | 0.4530 |
| 1,1,2,2-Tetrachloroethane | 50.0        | 316301.000 | 0.5270 | 100         | 615051.000 | 0.5227 | 200         | 1240991.00 | 0.5088 |
| 1,1-Dichloroethane        | 50.0        | 648400.000 | 0.4378 | 100         | 1295774.00 | 0.4415 | 200         | 2611368.00 | 0.4416 |
| Bromoform                 | 50.0        | 228603.000 | 0.1901 | 100         | 462973.000 | 0.1930 | 200         | 958747.000 | 0.1978 |
| Chlorobenzene             | 50.0        | 1071841.00 | 0.8913 | 100         | 2158424.00 | 0.8996 | 200         | 4401452.00 | 0.9080 |
| Chloromethane             | 50.0        | 482991.000 | 0.3261 | 100         | 981265.000 | 0.3343 | 200         | 1968214.00 | 0.3328 |
| Bromomethane              | 50.0        | 249250.000 | 0.1683 | 100         | 558729.000 | 0.1904 | 200         | 1103001.00 | 0.1865 |
| Methylene Chloride        | 50.0        | 371782.000 | 0.2510 | 100         | 728052.000 | 0.2480 | 200         | 1481478.00 | 0.2505 |
| Trichloroethene           | 50.0        | 419850.000 | 0.2835 | 100         | 825847.000 | 0.2814 | 200         | 1666323.00 | 0.2818 |
| Trichlorofluoromethane    | 50.0        | 599769.000 | 0.4050 | 100         | 1195868.00 | 0.4074 | 200         | 2403038.00 | 0.4064 |

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Login Number: L11050025  
Analytical Method: 8260B

Instrument ID: HPMS10  
Initial Calibration Date: 06-APR-11 14:58  
Column ID: F

| Analyte                   | WG360930-11 |      |    |
|---------------------------|-------------|------|----|
|                           | CONC        | RESP | RF |
| Chloroform                | NA          | NA   | NA |
| 1,1,2,2-Tetrachloroethane | NA          | NA   | NA |
| 1,1-Dichloroethane        | NA          | NA   | NA |
| Bromoform                 | NA          | NA   | NA |
| Chlorobenzene             | NA          | NA   | NA |
| Chloromethane             | NA          | NA   | NA |
| Bromomethane              | NA          | NA   | NA |
| Methylene Chloride        | NA          | NA   | NA |
| Trichloroethene           | NA          | NA   | NA |
| Trichlorofluoromethane    | NA          | NA   | NA |

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Login Number: L11050025  
Analytical Method: 8260B

Instrument ID: HPMS11  
Initial Calibration Date: 08-APR-11 22:25  
Column ID: F

| Analyte                   | WG361240-02 |            |        | WG361240-03 |            |        | WG361240-04 |            |        |
|---------------------------|-------------|------------|--------|-------------|------------|--------|-------------|------------|--------|
|                           | CONC        | RESP       | RF     | CONC        | RESP       | RF     | CONC        | RESP       | RF     |
| Chloroform                | 0.300       | 4149.00000 | 0.4169 | 0.400       | 4673.00000 | 0.3589 | 1.00        | 12284.0000 | 0.3788 |
| 1,1,2,2-Tetrachloroethane | NA          | NA         | NA     | 0.400       | 1686.00000 | 0.3091 | 1.00        | 5244.00000 | 0.3863 |
| 1,1-Dichloroethane        | NA          | NA         | NA     | 0.400       | 6350.00000 | 0.4877 | 1.00        | 15198.0000 | 0.4686 |
| Bromoform                 | NA          | NA         | NA     | NA          | NA         | NA     | 1.00        | 3436.00000 | 0.1377 |
| Chlorobenzene             | NA          | NA         | NA     | 0.400       | 8610.00000 | 0.8559 | 1.00        | 20526.0000 | 0.8228 |
| Chloromethane             | NA          | NA         | NA     | NA          | NA         | NA     | 1.00        | 14638.0000 | 0.4513 |
| Bromomethane              | NA          | NA         | NA     | NA          | NA         | NA     | 1.00        | 5798.00000 | 0.1788 |
| Methylene Chloride        | NA          | NA         | NA     | NA          | NA         | NA     | 1.00        | 7143.00000 | 0.2202 |
| Trichloroethene           | NA          | NA         | NA     | 0.400       | 2859.00000 | 0.2196 | 1.00        | 7457.00000 | 0.2299 |
| Trichlorofluoromethane    | NA          | NA         | NA     | 0.400       | 4287.00000 | 0.3292 | 1.00        | 11486.0000 | 0.3541 |

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Login Number: L11050025  
Analytical Method: 8260B

Instrument ID: HPMS11  
Initial Calibration Date: 08-APR-11 22:25  
Column ID: F

| Analyte                   | WG361240-05 |            |        | WG361240-06 |            |        | WG361240-07 |            |        |
|---------------------------|-------------|------------|--------|-------------|------------|--------|-------------|------------|--------|
|                           | CONC        | RESP       | RF     | CONC        | RESP       | RF     | CONC        | RESP       | RF     |
| Chloroform                | 2.00        | 28076.0000 | 0.4347 | 5.00        | 71939.0000 | 0.4458 | 20.0        | 275760.000 | 0.4338 |
| 1,1,2,2-Tetrachloroethane | 2.00        | 11939.0000 | 0.4394 | 5.00        | 29482.0000 | 0.4313 | 20.0        | 126824.000 | 0.4648 |
| 1,1-Dichloroethane        | 2.00        | 36657.0000 | 0.5676 | 5.00        | 90316.0000 | 0.5597 | 20.0        | 354723.000 | 0.5581 |
| Bromoform                 | 2.00        | 8297.00000 | 0.1660 | 5.00        | 21974.0000 | 0.1772 | 20.0        | 94630.0000 | 0.1927 |
| Chlorobenzene             | 2.00        | 46348.0000 | 0.9271 | 5.00        | 111576.000 | 0.9000 | 20.0        | 440005.000 | 0.8960 |
| Chloromethane             | 2.00        | 28945.0000 | 0.4482 | 5.00        | 69432.0000 | 0.4302 | 20.0        | 271006.000 | 0.4264 |
| Bromomethane              | 2.00        | 12428.0000 | 0.1924 | 5.00        | 28027.0000 | 0.1737 | 20.0        | 117276.000 | 0.1845 |
| Methylene Chloride        | 2.00        | 17112.0000 | 0.2649 | 5.00        | 40365.0000 | 0.2501 | 20.0        | 159607.000 | 0.2511 |
| Trichloroethene           | 2.00        | 17834.0000 | 0.2761 | 5.00        | 43216.0000 | 0.2678 | 20.0        | 171223.000 | 0.2694 |
| Trichlorofluoromethane    | 2.00        | 25136.0000 | 0.3892 | 5.00        | 63776.0000 | 0.3952 | 20.0        | 253925.000 | 0.3995 |

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Report generated 05/11/2011 13:49





**Microbac Laboratories Inc.**  
**INITIAL CALIBRATION DATA**

**Login Number:**L11050025  
**Analytical Method:**8260B

**Instrument ID:**HPMS11  
**Initial Calibration Date:**08-APR-11 22:25  
**Column ID:**F

| Analyte                   | WG361240-08 |            |        | WG361240-09 |            |        | WG361240-10 |            |        |
|---------------------------|-------------|------------|--------|-------------|------------|--------|-------------|------------|--------|
|                           | CONC        | RESP       | RF     | CONC        | RESP       | RF     | CONC        | RESP       | RF     |
| Chloroform                | 50.0        | 659112.000 | 0.4419 | 100         | 1299104.00 | 0.4379 | 200         | 2554611.00 | 0.4298 |
| 1,1,2,2-Tetrachloroethane | 50.0        | 310400.000 | 0.4776 | 100         | 617583.000 | 0.4793 | 200         | 1169930.00 | 0.4795 |
| 1,1-Dichloroethane        | 50.0        | 847729.000 | 0.5684 | 100         | 1676303.00 | 0.5651 | 200         | 3280774.00 | 0.5520 |
| Bromoform                 | 50.0        | 229217.000 | 0.1946 | 100         | 457961.000 | 0.1932 | 200         | 874079.000 | 0.1921 |
| Chlorobenzene             | 50.0        | 1057598.00 | 0.8980 | 100         | 2072540.00 | 0.8745 | 200         | 3967860.00 | 0.8721 |
| Chloromethane             | 50.0        | 689292.000 | 0.4621 | 100         | 1397198.00 | 0.4710 | 200         | 2879917.00 | 0.4846 |
| Bromomethane              | 50.0        | 292440.000 | 0.1961 | 100         | 584124.000 | 0.1969 | 200         | 1107558.00 | 0.1864 |
| Methylene Chloride        | 50.0        | 376223.000 | 0.2522 | 100         | 734569.000 | 0.2476 | 200         | 1430098.00 | 0.2406 |
| Trichloroethene           | 50.0        | 407122.000 | 0.2730 | 100         | 792724.000 | 0.2672 | 200         | 1542776.00 | 0.2596 |
| Trichlorofluoromethane    | 50.0        | 603604.000 | 0.4047 | 100         | 1207960.00 | 0.4072 | 200         | 2347248.00 | 0.3949 |

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Login Number: L11050025  
Analytical Method: 8260B

Instrument ID: HPMS11  
Initial Calibration Date: 08-APR-11 22:25  
Column ID: F

| Analyte                   | WG361240-11 |      |    |
|---------------------------|-------------|------|----|
|                           | CONC        | RESP | RF |
| Chloroform                | NA          | NA   | NA |
| 1,1,2,2-Tetrachloroethane | NA          | NA   | NA |
| 1,1-Dichloroethane        | NA          | NA   | NA |
| Bromoform                 | NA          | NA   | NA |
| Chlorobenzene             | NA          | NA   | NA |
| Chloromethane             | NA          | NA   | NA |
| Bromomethane              | NA          | NA   | NA |
| Methylene Chloride        | NA          | NA   | NA |
| Trichloroethene           | NA          | NA   | NA |
| Trichlorofluoromethane    | NA          | NA   | NA |

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PDF File ID: 2006774  
Report generated 05/11/2011 13:49



Login Number: L11050025  
Analytical Method: 8260B

Instrument ID: HPMS8  
Initial Calibration Date: 16-APR-11 00:19  
Column ID: F

| Analyte                   | WG362061-02 |            |        | WG362061-03 |            |        | WG362061-04 |            |        |
|---------------------------|-------------|------------|--------|-------------|------------|--------|-------------|------------|--------|
|                           | CONC        | RESP       | RF     | CONC        | RESP       | RF     | CONC        | RESP       | RF     |
| Chloroform                | 0.300       | 3970.00000 | 0.5086 | 0.400       | 5773.00000 | 0.5315 | 2.00        | 25849.0000 | 0.5126 |
| 1,1,2,2-Tetrachloroethane | NA          | NA         | NA     | 0.400       | 3047.00000 | 0.6371 | 2.00        | 12796.0000 | 0.5649 |
| 1,1-Dichloroethane        | NA          | NA         | NA     | 0.400       | 5735.00000 | 0.5280 | 2.00        | 26392.0000 | 0.5234 |
| Bromoform                 | NA          | NA         | NA     | 0.400       | 1983.00000 | 0.2374 | 2.00        | 9074.00000 | 0.2292 |
| Chlorobenzene             | NA          | NA         | NA     | 0.400       | 8774.00000 | 1.051  | 2.00        | 40158.0000 | 1.014  |
| Chloromethane             | NA          | NA         | NA     | 0.400       | 5311.00000 | 0.4890 | 2.00        | 22766.0000 | 0.4515 |
| Bromomethane              | NA          | NA         | NA     | 0.400       | 1250.00000 | 0.1151 | 2.00        | 8738.00000 | 0.1733 |
| Methylene Chloride        | NA          | NA         | NA     | 0.400       | 3329.00000 | 0.3065 | 2.00        | 13784.0000 | 0.2734 |
| Trichloroethene           | NA          | NA         | NA     | 0.400       | 3404.00000 | 0.3134 | 2.00        | 14651.0000 | 0.2906 |
| Trichlorofluoromethane    | NA          | NA         | NA     | 0.400       | 4503.00000 | 0.4146 | 2.00        | 26929.0000 | 0.5340 |

US EPA ARCHIVE DOCUMENT

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Report generated 05/11/2011 13:49



Login Number: L11050025  
Analytical Method: 8260B

Instrument ID: HPMS8  
Initial Calibration Date: 16-APR-11 00:19  
Column ID: F

| Analyte                   | WG362061-05 |            |        | WG362061-06 |            |        | WG362061-07 |            |        |
|---------------------------|-------------|------------|--------|-------------|------------|--------|-------------|------------|--------|
|                           | CONC        | RESP       | RF     | CONC        | RESP       | RF     | CONC        | RESP       | RF     |
| Chloroform                | 5.00        | 70958.0000 | 0.5498 | 20.0        | 279573.000 | 0.5306 | 50.0        | 663659.000 | 0.5240 |
| 1,1,2,2-Tetrachloroethane | 5.00        | 35997.0000 | 0.6225 | 20.0        | 134509.000 | 0.5583 | 50.0        | 304338.000 | 0.5249 |
| 1,1-Dichloroethane        | 5.00        | 70518.0000 | 0.5464 | 20.0        | 279394.000 | 0.5302 | 50.0        | 654965.000 | 0.5172 |
| Bromoform                 | 5.00        | 29151.0000 | 0.2931 | 20.0        | 114840.000 | 0.2803 | 50.0        | 265944.000 | 0.2711 |
| Chlorobenzene             | 5.00        | 112126.000 | 1.127  | 20.0        | 441823.000 | 1.079  | 50.0        | 1035814.00 | 1.056  |
| Chloromethane             | 5.00        | 53060.0000 | 0.4111 | 20.0        | 209831.000 | 0.3982 | 50.0        | 499476.000 | 0.3944 |
| Bromomethane              | 5.00        | 23735.0000 | 0.1839 | 20.0        | 108056.000 | 0.2051 | 50.0        | 274966.000 | 0.2171 |
| Methylene Chloride        | 5.00        | 43365.0000 | 0.3360 | 20.0        | 150713.000 | 0.2860 | 50.0        | 347964.000 | 0.2748 |
| Trichloroethene           | 5.00        | 41614.0000 | 0.3224 | 20.0        | 172740.000 | 0.3278 | 50.0        | 411671.000 | 0.3251 |
| Trichlorofluoromethane    | 5.00        | 65692.0000 | 0.5090 | 20.0        | 260531.000 | 0.4944 | 50.0        | 655939.000 | 0.5180 |

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Report generated 05/11/2011 13:49



Login Number: L11050025  
Analytical Method: 8260B

Instrument ID: HPMS8  
Initial Calibration Date: 16-APR-11 00:19  
Column ID: F

| Analyte                   | WG362061-08 |            |        | WG362061-09 |            |        | WG362061-10 |      |    |
|---------------------------|-------------|------------|--------|-------------|------------|--------|-------------|------|----|
|                           | CONC        | RESP       | RF     | CONC        | RESP       | RF     | CONC        | RESP | RF |
| Chloroform                | 100         | 1331954.00 | 0.5145 | 200         | 2560711.00 | 0.5092 | NA          | NA   | NA |
| 1,1,2,2-Tetrachloroethane | 100         | 634291.000 | 0.5373 | 200         | 1224868.00 | 0.5308 | NA          | NA   | NA |
| 1,1-Dichloroethane        | 100         | 1311327.00 | 0.5066 | 200         | 2540779.00 | 0.5052 | NA          | NA   | NA |
| Bromoform                 | 100         | 546453.000 | 0.2711 | 200         | 1045393.00 | 0.2611 | NA          | NA   | NA |
| Chlorobenzene             | 100         | 1972678.00 | 0.9787 | 200         | 3730183.00 | 0.9316 | NA          | NA   | NA |
| Chloromethane             | 100         | 971960.000 | 0.3755 | 200         | 1958580.00 | 0.3895 | NA          | NA   | NA |
| Bromomethane              | 100         | 543869.000 | 0.2101 | 200         | 1083489.00 | 0.2154 | NA          | NA   | NA |
| Methylene Chloride        | 100         | 688514.000 | 0.2660 | 200         | 1348135.00 | 0.2681 | NA          | NA   | NA |
| Trichloroethene           | 100         | 798619.000 | 0.3085 | 200         | 1512270.00 | 0.3007 | NA          | NA   | NA |
| Trichlorofluoromethane    | 100         | 1309218.00 | 0.5058 | 200         | 2547424.00 | 0.5065 | NA          | NA   | NA |

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ALTERNATE SOURCE CALIBRATION REPORT

|                                 |                                   |                               |
|---------------------------------|-----------------------------------|-------------------------------|
| Login Number: <u>L11050025</u>  | Run Date: <u>04/06/2011</u>       | Sample ID: <u>WG360930-12</u> |
| Instrument ID: <u>HPMS10</u>    | Run Time: <u>16:33</u>            | Method: <u>8260B</u>          |
| File ID: <u>10M86759</u>        | Analyst: <u>TMB</u>               | QC Key: <u>ASHLAND</u>        |
| ICal Workgroup: <u>WG360930</u> | Cal ID: <u>HPMS10 - 06-APR-11</u> |                               |

| Analyte                   |      | Expected | Found | Units | RF    | %D    | UCL | Q |
|---------------------------|------|----------|-------|-------|-------|-------|-----|---|
| Chloroform                | CCC  | 50.0     | 49.0  | ug/L  | 0.438 | 2.10  | 25  |   |
| Chloromethane             | SPCC | 50.0     | 54.1  | ug/L  | 0.382 | 8.30  | 25  |   |
| 1,1,2,2-Tetrachloroethane | SPCC | 50.0     | 48.7  | ug/L  | 0.517 | 2.60  | 25  |   |
| Chlorobenzene             | SPCC | 50.0     | 49.1  | ug/L  | 0.885 | 1.80  | 25  |   |
| 1,1-Dichloroethane        | SPCC | 50.0     | 49.3  | ug/L  | 0.417 | 1.40  | 25  |   |
| Bromoform                 | SPCC | 50.0     | 45.5  | ug/L  | 0.176 | 9.00  | 25  |   |
| Bromomethane              |      | 50.0     | 50.1  | ug/L  | 0.174 | 0.200 | 25  |   |
| Methylene Chloride        |      | 50.0     | 47.6  | ug/L  | 0.240 | 4.90  | 25  |   |
| Trichloroethene           |      | 50.0     | 49.9  | ug/L  | 0.277 | 0.200 | 25  |   |
| Trichlorofluoromethane    |      | 50.0     | 55.1  | ug/L  | 0.428 | 10.2  | 25  |   |

\* Exceeds %D Limit

CCC Calibration Check Compounds  
SPCC System Performance Check Compounds

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ALTERNATE SOURCE CALIBRATION REPORT

|                                 |                                   |                               |
|---------------------------------|-----------------------------------|-------------------------------|
| Login Number: <u>L11050025</u>  | Run Date: <u>04/08/2011</u>       | Sample ID: <u>WG361240-12</u> |
| Instrument ID: <u>HPMS11</u>    | Run Time: <u>23:26</u>            | Method: <u>8260B</u>          |
| File ID: <u>11M73585</u>        | Analyst: <u>MES</u>               | QC Key: <u>ASHLAND</u>        |
| ICal Workgroup: <u>WG361240</u> | Cal ID: <u>HPMS11 - 08-APR-11</u> |                               |

| Analyte                   |      | Expected | Found | Units | RF    | %D    | UCL | Q |
|---------------------------|------|----------|-------|-------|-------|-------|-----|---|
| Chloroform                | CCC  | 50.0     | 50.4  | ug/L  | 0.424 | 0.900 | 25  |   |
| Chloromethane             | SPCC | 50.0     | 56.9  | ug/L  | 0.516 | 13.8  | 25  |   |
| 1,1,2,2-Tetrachloroethane | SPCC | 50.0     | 54.8  | ug/L  | 0.475 | 9.50  | 25  |   |
| Chlorobenzene             | SPCC | 50.0     | 50.0  | ug/L  | 0.880 | 0.100 | 25  |   |
| 1,1-Dichloroethane        | SPCC | 50.0     | 50.9  | ug/L  | 0.550 | 1.70  | 25  |   |
| Bromoform                 | SPCC | 50.0     | 51.2  | ug/L  | 0.184 | 2.40  | 25  |   |
| Bromomethane              |      | 50.0     | 48.1  | ug/L  | 0.180 | 3.90  | 25  |   |
| Methylene Chloride        |      | 50.0     | 49.8  | ug/L  | 0.246 | 0.300 | 25  |   |
| Trichloroethene           |      | 50.0     | 51.4  | ug/L  | 0.265 | 2.80  | 25  |   |
| Trichlorofluoromethane    |      | 50.0     | 52.8  | ug/L  | 0.406 | 5.70  | 25  |   |

\* Exceeds %D Limit

CCC Calibration Check Compounds  
SPCC System Performance Check Compounds

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**ALTERNATE SOURCE CALIBRATION REPORT**

|                                 |                                  |                               |
|---------------------------------|----------------------------------|-------------------------------|
| Login Number: <u>L11050025</u>  | Run Date: <u>04/16/2011</u>      | Sample ID: <u>WG362061-11</u> |
| Instrument ID: <u>HPMS8</u>     | Run Time: <u>01:21</u>           | Method: <u>8260B</u>          |
| File ID: <u>8M369546</u>        | Analyst: <u>MES</u>              | QC Key: <u>ASHLAND</u>        |
| ICal Workgroup: <u>WG362061</u> | Cal ID: <u>HPMS8 - 16-APR-11</u> |                               |

| Analyte                   |      | Expected | Found | Units | RF    | %D    | UCL | Q |
|---------------------------|------|----------|-------|-------|-------|-------|-----|---|
| Chloroform                | CCC  | 50.0     | 46.9  | ug/L  | 0.490 | 6.30  | 25  |   |
| Chloromethane             | SPCC | 50.0     | 57.1  | ug/L  | 0.475 | 14.2  | 25  |   |
| 1,1,2,2-Tetrachloroethane | SPCC | 50.0     | 51.8  | ug/L  | 0.588 | 3.50  | 25  |   |
| Chlorobenzene             | SPCC | 50.0     | 48.9  | ug/L  | 1.01  | 2.20  | 25  |   |
| 1,1-Dichloroethane        | SPCC | 50.0     | 43.9  | ug/L  | 0.458 | 12.3  | 25  |   |
| Bromoform                 | SPCC | 50.0     | 50.6  | ug/L  | 0.267 | 1.20  | 25  |   |
| Bromomethane              |      | 50.0     | 55.4  | ug/L  | 0.236 | 10.7  | 25  |   |
| Methylene Chloride        |      | 50.0     | 48.9  | ug/L  | 0.281 | 2.20  | 25  |   |
| Trichloroethene           |      | 50.0     | 49.8  | ug/L  | 0.312 | 0.300 | 25  |   |
| Trichlorofluoromethane    |      | 50.0     | 53.8  | ug/L  | 0.535 | 7.60  | 25  |   |

\* Exceeds %D Limit

CCC Calibration Check Compounds  
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CONTINUING CALIBRATION VERIFICATION (CCV)

|                                   |                                   |                               |
|-----------------------------------|-----------------------------------|-------------------------------|
| Login Number: <u>L11050025</u>    | Run Date: <u>05/03/2011</u>       | Sample ID: <u>WG363413-02</u> |
| Instrument ID: <u>HPMS11</u>      | Run Time: <u>10:13</u>            | Method: <u>8260B</u>          |
| File ID: <u>11M74028</u>          | Analyst: <u>TMB</u>               | QC Key: <u>ASHLAND</u>        |
| Workgroup (AAB#): <u>WG363415</u> | Cal ID: <u>HPMS11 - 08-APR-11</u> |                               |
| Matrix: <u>WATER</u>              |                                   |                               |

| Analyte                   |      | Expected | Found | UNITS | RF    | %D     | UCL | Q |
|---------------------------|------|----------|-------|-------|-------|--------|-----|---|
| Chloroform                | CCC  | 50.0     | 55.2  | ug/L  | 0.464 | 10.4   | 20  |   |
| 1,1-Dichloroethene        | CCC  | 50.0     | 52.0  | ug/L  | 0.472 | 4.09   | 20  |   |
| 1,2-Dichloropropane       | CCC  | 50.0     | 50.5  | ug/L  | 0.319 | 0.959  | 20  |   |
| Ethylbenzene              | CCC  | 50.0     | 51.1  | ug/L  | 0.474 | 2.22   | 20  |   |
| Toluene                   | CCC  | 50.0     | 50.4  | ug/L  | 1.30  | 0.738  | 20  |   |
| Vinyl Chloride            | CCC  | 50.0     | 60.5  | ug/L  | 0.374 | 21.1   | 20  | * |
| Chloromethane             | SPCC | 50.0     | 51.1  | ug/L  | 0.463 | 2.14   | 20  |   |
| 1,1,2,2-Tetrachloroethane | SPCC | 50.0     | 55.0  | ug/L  | 0.477 | 10.1   | 20  |   |
| 1,1-Dichloroethane        | SPCC | 50.0     | 53.4  | ug/L  | 0.578 | 6.83   | 20  |   |
| Bromoform                 | SPCC | 50.0     | 55.2  | ug/L  | 0.198 | 10.4   | 20  |   |
| Chlorobenzene             | SPCC | 50.0     | 50.6  | ug/L  | 0.891 | 1.13   | 20  |   |
| Bromomethane              |      | 50.0     | 44.8  | ug/L  | 0.168 | 10.4   | 20  |   |
| Methylene Chloride        |      | 50.0     | 50.0  | ug/L  | 0.247 | 0.0448 | 20  |   |
| Trichloroethene           |      | 50.0     | 52.2  | ug/L  | 0.269 | 4.49   | 20  |   |
| Trichlorofluoromethane    |      | 50.0     | 59.7  | ug/L  | 0.459 | 19.3   | 20  |   |

\* Exceeds %D Criteria

CCC Calibration Check Compounds  
SPCC System Performance Check Compounds

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CONTINUING CALIBRATION VERIFICATION (CCV)

|                                   |                                   |                               |
|-----------------------------------|-----------------------------------|-------------------------------|
| Login Number: <u>L11050025</u>    | Run Date: <u>05/02/2011</u>       | Sample ID: <u>WG363417-02</u> |
| Instrument ID: <u>HPMS10</u>      | Run Time: <u>13:21</u>            | Method: <u>8260B</u>          |
| File ID: <u>10M87285</u>          | Analyst: <u>TMB</u>               | QC Key: <u>ASHLAND</u>        |
| Workgroup (AAB#): <u>WG363418</u> | Cal ID: <u>HPMS10 - 06-APR-11</u> |                               |
| Matrix: <u>WATER</u>              |                                   |                               |

| Analyte                   |      | Expected | Found | UNITS | RF    | %D    | UCL | Q |
|---------------------------|------|----------|-------|-------|-------|-------|-----|---|
| Chloroform                | CCC  | 50.0     | 53.3  | ug/L  | 0.477 | 6.58  | 20  |   |
| 1,1-Dichloroethene        | CCC  | 50.0     | 53.4  | ug/L  | 0.239 | 6.79  | 20  |   |
| 1,2-Dichloropropane       | CCC  | 50.0     | 53.1  | ug/L  | 0.248 | 6.19  | 20  |   |
| Ethylbenzene              | CCC  | 50.0     | 52.7  | ug/L  | 0.497 | 5.48  | 20  |   |
| Toluene                   | CCC  | 50.0     | 52.9  | ug/L  | 1.32  | 5.84  | 20  |   |
| Vinyl Chloride            | CCC  | 50.0     | 51.6  | ug/L  | 0.287 | 3.14  | 20  |   |
| Chloromethane             | SPCC | 50.0     | 46.3  | ug/L  | 0.327 | 7.36  | 20  |   |
| 1,1,2,2-Tetrachloroethane | SPCC | 50.0     | 44.9  | ug/L  | 0.477 | 10.1  | 20  |   |
| 1,1-Dichloroethane        | SPCC | 50.0     | 54.9  | ug/L  | 0.464 | 9.85  | 20  |   |
| Bromoform                 | SPCC | 50.0     | 52.3  | ug/L  | 0.202 | 4.58  | 20  |   |
| Chlorobenzene             | SPCC | 50.0     | 51.2  | ug/L  | 0.923 | 2.48  | 20  |   |
| Bromomethane              |      | 50.0     | 43.6  | ug/L  | 0.151 | 12.9  | 20  |   |
| Methylene Chloride        |      | 50.0     | 50.2  | ug/L  | 0.253 | 0.460 | 20  |   |
| Trichloroethene           |      | 50.0     | 52.3  | ug/L  | 0.291 | 4.64  | 20  |   |
| Trichlorofluoromethane    |      | 50.0     | 58.5  | ug/L  | 0.454 | 16.9  | 20  |   |

\* Exceeds %D Criteria

CCC Calibration Check Compounds  
SPCC System Performance Check Compounds

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CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11050025 Run Date: 05/05/2011 Sample ID: WG363719-02  
Instrument ID: HPMS10 Run Time: 09:34 Method: 8260B  
File ID: 10M87369 Analyst: TMB QC Key: ASHLAND  
Workgroup (AAB#): WG363720 Cal ID: HPMS10 - 06-APR-11  
Matrix: WATER

| Analyte                   |      | Expected | Found | UNITS | RF    | %D    | UCL | Q |
|---------------------------|------|----------|-------|-------|-------|-------|-----|---|
| Chloroform                | CCC  | 50.0     | 52.9  | ug/L  | 0.474 | 5.88  | 20  |   |
| 1,1-Dichloroethene        | CCC  | 50.0     | 52.5  | ug/L  | 0.235 | 5.07  | 20  |   |
| 1,2-Dichloropropane       | CCC  | 50.0     | 52.6  | ug/L  | 0.246 | 5.30  | 20  |   |
| Ethylbenzene              | CCC  | 50.0     | 51.7  | ug/L  | 0.487 | 3.40  | 20  |   |
| Toluene                   | CCC  | 50.0     | 52.2  | ug/L  | 1.31  | 4.48  | 20  |   |
| Vinyl Chloride            | CCC  | 50.0     | 52.0  | ug/L  | 0.289 | 4.01  | 20  |   |
| Chloromethane             | SPCC | 50.0     | 48.9  | ug/L  | 0.345 | 2.25  | 20  |   |
| 1,1,2,2-Tetrachloroethane | SPCC | 50.0     | 43.2  | ug/L  | 0.459 | 13.5  | 20  |   |
| 1,1-Dichloroethane        | SPCC | 50.0     | 55.2  | ug/L  | 0.467 | 10.4  | 20  |   |
| Bromoform                 | SPCC | 50.0     | 49.8  | ug/L  | 0.193 | 0.346 | 20  |   |
| Chlorobenzene             | SPCC | 50.0     | 50.9  | ug/L  | 0.916 | 1.72  | 20  |   |
| Bromomethane              |      | 50.0     | 43.4  | ug/L  | 0.150 | 13.2  | 20  |   |
| Methylene Chloride        |      | 50.0     | 50.1  | ug/L  | 0.252 | 0.136 | 20  |   |
| Trichloroethene           |      | 50.0     | 51.8  | ug/L  | 0.288 | 3.59  | 20  |   |
| Trichlorofluoromethane    |      | 50.0     | 55.9  | ug/L  | 0.434 | 11.8  | 20  |   |

\* Exceeds %D Criteria

CCC Calibration Check Compounds  
SPCC System Performance Check Compounds

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Microbac Laboratories Inc.  
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11050025 Run Date: 05/05/2011 Sample ID: WG363761-02  
Instrument ID: HPMS8 Run Time: 12:15 Method: 8260B  
File ID: 8M369977 Analyst: ADC QC Key: ASHLAND  
Workgroup (AAB#): WG363762 Cal ID: HPMS8 - 16-APR-11  
Matrix: WATER

| Analyte                   |      | Expected | Found | UNITS | RF    | %D   | UCL | Q |
|---------------------------|------|----------|-------|-------|-------|------|-----|---|
| Chloroform                | CCC  | 50.0     | 54.2  | ug/L  | 0.567 | 8.44 | 20  |   |
| 1,1-Dichloroethene        | CCC  | 50.0     | 55.1  | ug/L  | 0.503 | 10.2 | 20  |   |
| 1,2-Dichloropropane       | CCC  | 50.0     | 52.4  | ug/L  | 0.304 | 4.83 | 20  |   |
| Ethylbenzene              | CCC  | 50.0     | 46.6  | ug/L  | 0.532 | 6.71 | 20  |   |
| Toluene                   | CCC  | 50.0     | 46.5  | ug/L  | 1.40  | 7.04 | 20  |   |
| Vinyl Chloride            | CCC  | 50.0     | 52.1  | ug/L  | 0.328 | 4.24 | 20  |   |
| Chloromethane             | SPCC | 50.0     | 45.3  | ug/L  | 0.376 | 9.43 | 20  |   |
| 1,1,2,2-Tetrachloroethane | SPCC | 50.0     | 44.7  | ug/L  | 0.508 | 10.6 | 20  |   |
| 1,1-Dichloroethane        | SPCC | 50.0     | 52.1  | ug/L  | 0.544 | 4.21 | 20  |   |
| Bromoform                 | SPCC | 50.0     | 51.0  | ug/L  | 0.269 | 1.98 | 20  |   |
| Chlorobenzene             | SPCC | 50.0     | 47.6  | ug/L  | 0.984 | 4.81 | 20  |   |
| Bromomethane              |      | 50.0     | 48.4  | ug/L  | 0.206 | 3.13 | 20  |   |
| Methylene Chloride        |      | 50.0     | 49.5  | ug/L  | 0.284 | 1.01 | 20  |   |
| Trichloroethene           |      | 50.0     | 51.5  | ug/L  | 0.322 | 2.92 | 20  |   |
| Trichlorofluoromethane    |      | 50.0     | 57.3  | ug/L  | 0.570 | 14.5 | 20  |   |

\* Exceeds %D Criteria

CCC Calibration Check Compounds  
SPCC System Performance Check Compounds

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Microbac Laboratories Inc.  
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11050025 Run Date: 05/09/2011 Sample ID: WG363970-02  
Instrument ID: HPMS8 Run Time: 08:59 Method: 8260B  
File ID: 8M370035 Analyst: MES QC Key: ASHLAND  
Workgroup (AAB#): WG363971 Cal ID: HPMS8 - 16-APR-11  
Matrix: WATER

| Analyte                   |      | Expected | Found | UNITS | RF    | %D    | UCL | Q |
|---------------------------|------|----------|-------|-------|-------|-------|-----|---|
| Chloroform                | CCC  | 50.0     | 55.8  | ug/L  | 0.583 | 11.6  | 20  |   |
| 1,1-Dichloroethene        | CCC  | 50.0     | 58.1  | ug/L  | 0.530 | 16.1  | 20  |   |
| 1,2-Dichloropropane       | CCC  | 50.0     | 53.2  | ug/L  | 0.309 | 6.44  | 20  |   |
| Ethylbenzene              | CCC  | 50.0     | 48.7  | ug/L  | 0.555 | 2.61  | 20  |   |
| Toluene                   | CCC  | 50.0     | 47.9  | ug/L  | 1.45  | 4.15  | 20  |   |
| Vinyl Chloride            | CCC  | 50.0     | 53.1  | ug/L  | 0.334 | 6.19  | 20  |   |
| Chloromethane             | SPCC | 50.0     | 48.3  | ug/L  | 0.402 | 3.36  | 20  |   |
| 1,1,2,2-Tetrachloroethane | SPCC | 50.0     | 42.5  | ug/L  | 0.483 | 14.9  | 20  |   |
| 1,1-Dichloroethane        | SPCC | 50.0     | 54.8  | ug/L  | 0.572 | 9.52  | 20  |   |
| Bromoform                 | SPCC | 50.0     | 49.4  | ug/L  | 0.260 | 1.27  | 20  |   |
| Chlorobenzene             | SPCC | 50.0     | 48.5  | ug/L  | 1.00  | 2.94  | 20  |   |
| Bromomethane              |      | 50.0     | 50.1  | ug/L  | 0.214 | 0.300 | 20  |   |
| Methylene Chloride        |      | 50.0     | 50.5  | ug/L  | 0.290 | 1.09  | 20  |   |
| Trichloroethene           |      | 50.0     | 52.5  | ug/L  | 0.328 | 5.04  | 20  |   |
| Trichlorofluoromethane    |      | 50.0     | 56.4  | ug/L  | 0.561 | 12.8  | 20  |   |

\* Exceeds %D Criteria

CCC Calibration Check Compounds  
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008  
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Report generated 05/11/2011 13:49



Microbac Laboratories Inc.  
INTERNAL STANDARD AREA SUMMARY  
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11050025  
Instrument ID: HPMS11  
Workgroup (AAB#): WG363415

ICAL CCV Number: WG361240-08  
CAL ID: HPMS11 - 08-APR-11  
Matrix: WATER

| Sample Number       | Dilution    | Tag       | IS-1          | IS-2          | IS-3          |
|---------------------|-------------|-----------|---------------|---------------|---------------|
| WG361240-08         | NA          | NA        | 324969        | 588858        | 745761        |
| Upper Limit         | NA          | NA        | 649938        | 1177716       | 1491522       |
| Lower Limit         | NA          | NA        | 162485        | 294429        | 372881        |
| <u>L11050025-01</u> | <u>1.00</u> | <u>01</u> | <u>357771</u> | <u>658098</u> | <u>848070</u> |
| <u>L11050025-02</u> | <u>1.00</u> | <u>01</u> | <u>364921</u> | <u>670047</u> | <u>852040</u> |
| <u>L11050025-03</u> | <u>1.00</u> | <u>01</u> | <u>366151</u> | <u>670333</u> | <u>856349</u> |
| <u>L11050025-06</u> | <u>1.00</u> | <u>01</u> | <u>352541</u> | <u>636868</u> | <u>825270</u> |
| <u>WG363415-01</u>  | <u>1.00</u> | <u>01</u> | <u>363225</u> | <u>667497</u> | <u>865622</u> |
| <u>WG363415-02</u>  | <u>1.00</u> | <u>01</u> | <u>368188</u> | <u>671928</u> | <u>851202</u> |

IS-1 - 1,4-Dichlorobenzene-d4  
IS-2 - Chlorobenzene-d5  
IS-3 - Fluorobenzene

Underline = Response outside limits

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Microbac Laboratories Inc.  
INTERNAL STANDARD AREA SUMMARY  
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11050025  
Instrument ID: HPMS10  
Workgroup (AAB#): WG363418

ICAL CCV Number: WG360930-08  
CAL ID: HPMS10 - 06-APR-11  
Matrix: WATER

| Sample Number       | Dilution    | Tag       | IS-1          | IS-2          | IS-3          |
|---------------------|-------------|-----------|---------------|---------------|---------------|
| WG360930-08         | NA          | NA        | 300080        | 601293        | 740544        |
| Upper Limit         | NA          | NA        | 600160        | 1202586       | 1481088       |
| Lower Limit         | NA          | NA        | 150040        | 300647        | 370272        |
| <u>L11050025-04</u> | <u>1.00</u> | <u>01</u> | <u>274892</u> | <u>531817</u> | <u>677481</u> |
| L11050025-05        | 1.00        | 01        | 264375        | 522298        | 673082        |
| L11050025-07        | 1.00        | 01        | 265387        | 519882        | 663856        |
| L11050025-11        | 1.00        | 01        | 264526        | 508225        | 648916        |
| L11050025-12        | 1.00        | 01        | 263266        | 512222        | 653195        |
| L11050025-13        | 1.00        | 01        | 256252        | 504899        | 646555        |
| L11050025-18        | 1.00        | 01        | 274393        | 542697        | 689392        |
| WG363418-01         | 1.00        | 01        | 282688        | 556845        | 710922        |
| WG363418-02         | 1.00        | 01        | 301706        | 557829        | 711967        |

IS-1 - 1,4-Dichlorobenzene-d4  
IS-2 - Chlorobenzene-d5  
IS-3 - Fluorobenzene

Underline = Response outside limits

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Microbac Laboratories Inc.  
INTERNAL STANDARD AREA SUMMARY  
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11050025  
Instrument ID: HPMS10  
Workgroup (AAB#): WG363720

ICAL CCV Number: WG360930-08  
CAL ID: HPMS10 - 06-APR-11  
Matrix: WATER

| Sample Number | Dilution | Tag | IS-1   | IS-2    | IS-3    |
|---------------|----------|-----|--------|---------|---------|
| WG360930-08   | NA       | NA  | 300080 | 601293  | 740544  |
| Upper Limit   | NA       | NA  | 600160 | 1202586 | 1481088 |
| Lower Limit   | NA       | NA  | 150040 | 300647  | 370272  |
| L11050025-09  | 1.00     | 01  | 263532 | 507391  | 645769  |
| L11050025-10  | 1.00     | 01  | 263159 | 505091  | 636427  |
| L11050025-14  | 1.00     | 01  | 261266 | 500009  | 630384  |
| L11050025-15  | 1.00     | 01  | 257181 | 498706  | 625368  |
| WG363720-01   | 1.00     | 01  | 284191 | 547003  | 693830  |
| WG363720-02   | 1.00     | 01  | 305302 | 550015  | 695419  |
| WG363720-03   | 1.00     | 01  | 305698 | 550993  | 692757  |

IS-1 - 1,4-Dichlorobenzene-d4  
IS-2 - Chlorobenzene-d5  
IS-3 - Fluorobenzene

Underline = Response outside limits

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Microbac Laboratories Inc.  
INTERNAL STANDARD AREA SUMMARY  
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11050025  
Instrument ID: HPMS8  
Workgroup (AAB#): WG363762

ICAL CCV Number: WG362061-07  
CAL ID: HPMS8 - 16-APR-11  
Matrix: WATER

| Sample Number | Dilution | Tag | IS-1   | IS-2   | IS-3    |
|---------------|----------|-----|--------|--------|---------|
| WG362061-07   | NA       | NA  | 289879 | 490419 | 633203  |
| Upper Limit   | NA       | NA  | 579758 | 980838 | 1266406 |
| Lower Limit   | NA       | NA  | 144940 | 245210 | 316602  |
| L11050025-16  | 1.00     | 01  | 305349 | 520928 | 625521  |
| L11050025-17  | 1.00     | 01  | 303398 | 525391 | 620724  |
| WG363762-01   | 1.00     | 01  | 312489 | 527700 | 639432  |
| WG363762-02   | 1.00     | 01  | 306660 | 513300 | 619808  |

IS-1 - 1,4-Dichlorobenzene-d4  
IS-2 - Chlorobenzene-d5  
IS-3 - Fluorobenzene

Underline = Response outside limits

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Microbac Laboratories Inc.  
INTERNAL STANDARD AREA SUMMARY  
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11050025  
Instrument ID: HPMS8  
Workgroup (AAB#): WG363971

ICAL CCV Number: WG362061-07  
CAL ID: HPMS8 - 16-APR-11  
Matrix: WATER

| Sample Number       | Dilution    | Tag         | IS-1          | IS-2          | IS-3          |
|---------------------|-------------|-------------|---------------|---------------|---------------|
| WG362061-07         | NA          | NA          | 289879        | 490419        | 633203        |
| Upper Limit         | NA          | NA          | 579758        | 980838        | 1266406       |
| Lower Limit         | NA          | NA          | 144940        | 245210        | 316602        |
| <u>L11050025-08</u> | <u>1000</u> | <u>DL02</u> | <u>313985</u> | <u>531677</u> | <u>621499</u> |
| WG363971-01         | 1.00        | 01          | 319251        | 545584        | 637847        |
| WG363971-02         | 1.00        | 01          | 313748        | 523773        | 608107        |

IS-1 - 1,4-Dichlorobenzene-d4  
IS-2 - Chlorobenzene-d5  
IS-3 - Fluorobenzene

Underline = Response outside limits

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Microbac Laboratories Inc.  
INTERNAL STANDARD RETENTION TIME SUMMARY  
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11050025  
Instrument ID: HPMS10  
Workgroup (AAB#): WG363418

ICAL CCV Number: WG360930-08  
CAL ID: HPMS10 - 06-APR-11  
Matrix: WATER

| Sample Number | Dilution | Tag | IS-1  | IS-2  | IS-3  |
|---------------|----------|-----|-------|-------|-------|
| WG360930-08   | NA       | NA  | 17.27 | 14.47 | 10.83 |
| Upper Limit   | NA       | NA  | 17.77 | 14.97 | 11.33 |
| Lower Limit   | NA       | NA  | 16.77 | 13.97 | 10.33 |
| L11050025-04  | 1.00     | 01  | 17.27 | 14.46 | 10.83 |
| L11050025-05  | 1.00     | 01  | 17.27 | 14.47 | 10.83 |
| L11050025-07  | 1.00     | 01  | 17.27 | 14.47 | 10.83 |
| L11050025-11  | 1.00     | 01  | 17.27 | 14.46 | 10.83 |
| L11050025-12  | 1.00     | 01  | 17.27 | 14.47 | 10.83 |
| L11050025-13  | 1.00     | 01  | 17.27 | 14.46 | 10.83 |
| L11050025-18  | 1.00     | 01  | 17.27 | 14.47 | 10.83 |
| WG363418-01   | 1.00     | 01  | 17.27 | 14.46 | 10.83 |
| WG363418-02   | 1.00     | 01  | 17.26 | 14.46 | 10.83 |

IS-1 - 1,4-Dichlorobenzene-d4  
IS-2 - Chlorobenzene-d5  
IS-3 - Fluorobenzene

Underline = Response outside limits



Microbac Laboratories Inc.  
INTERNAL STANDARD RETENTION TIME SUMMARY  
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11050025  
Instrument ID: HPMS10  
Workgroup (AAB#): WG363720

ICAL CCV Number: WG360930-08  
CAL ID: HPMS10 - 06-APR-11  
Matrix: WATER

| Sample Number | Dilution | Tag | IS-1  | IS-2  | IS-3  |
|---------------|----------|-----|-------|-------|-------|
| WG360930-08   | NA       | NA  | 17.27 | 14.47 | 10.83 |
| Upper Limit   | NA       | NA  | 17.77 | 14.97 | 11.33 |
| Lower Limit   | NA       | NA  | 16.77 | 13.97 | 10.33 |
| L11050025-09  | 1.00     | 01  | 17.27 | 14.46 | 10.83 |
| L11050025-10  | 1.00     | 01  | 17.27 | 14.46 | 10.83 |
| L11050025-14  | 1.00     | 01  | 17.27 | 14.45 | 10.83 |
| L11050025-15  | 1.00     | 01  | 17.27 | 14.46 | 10.83 |
| WG363720-01   | 1.00     | 01  | 17.27 | 14.46 | 10.83 |
| WG363720-02   | 1.00     | 01  | 17.27 | 14.45 | 10.83 |
| WG363720-03   | 1.00     | 01  | 17.26 | 14.46 | 10.83 |

IS-1 - 1,4-Dichlorobenzene-d4  
IS-2 - Chlorobenzene-d5  
IS-3 - Fluorobenzene

Underline = Response outside limits





Microbac Laboratories Inc.  
INTERNAL STANDARD RETENTION TIME SUMMARY  
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11050025  
Instrument ID: HPMS11  
Workgroup (AAB#): WG363415

ICAL CCV Number: WG361240-08  
CAL ID: HPMS11 - 08-APR-11  
Matrix: WATER

| Sample Number | Dilution | Tag | IS-1  | IS-2   | IS-3   |
|---------------|----------|-----|-------|--------|--------|
| WG361240-08   | NA       | NA  | 17.06 | 14.25  | 10.62  |
| Upper Limit   | NA       | NA  | 17.56 | 14.75  | 11.12  |
| Lower Limit   | NA       | NA  | 16.56 | 13.75  | 10.12  |
| L11050025-01  | 1.00     | 01  | 17.05 | 14.238 | 10.598 |
| L11050025-02  | 1.00     | 01  | 17.05 | 14.238 | 10.598 |
| L11050025-03  | 1.00     | 01  | 17.05 | 14.238 | 10.598 |
| L11050025-06  | 1.00     | 01  | 17.05 | 14.238 | 10.598 |
| WG363415-01   | 1.00     | 01  | 17.05 | 14.238 | 10.598 |
| WG363415-02   | 1.00     | 01  | 17.05 | 14.238 | 10.598 |

IS-1 - 1,4-Dichlorobenzene-d4  
IS-2 - Chlorobenzene-d5  
IS-3 - Fluorobenzene

Underline = Response outside limits



Microbac Laboratories Inc.  
INTERNAL STANDARD RETENTION TIME SUMMARY  
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11050025  
Instrument ID: HPMS8  
Workgroup (AAB#): WG363762

ICAL CCV Number: WG362061-07  
CAL ID: HPMS8 - 16-APR-11  
Matrix: WATER

| Sample Number | Dilution | Tag | IS-1  | IS-2  | IS-3  |
|---------------|----------|-----|-------|-------|-------|
| WG362061-07   | NA       | NA  | 17.17 | 14.16 | 10.31 |
| Upper Limit   | NA       | NA  | 17.67 | 14.66 | 10.81 |
| Lower Limit   | NA       | NA  | 16.67 | 13.66 | 9.81  |
| L11050025-16  | 1.00     | 01  | 17.17 | 14.16 | 10.31 |
| L11050025-17  | 1.00     | 01  | 17.17 | 14.16 | 10.31 |
| WG363762-01   | 1.00     | 01  | 17.17 | 14.16 | 10.31 |
| WG363762-02   | 1.00     | 01  | 17.17 | 14.16 | 10.31 |

IS-1 - 1,4-Dichlorobenzene-d4  
IS-2 - Chlorobenzene-d5  
IS-3 - Fluorobenzene

Underline = Response outside limits



Microbac Laboratories Inc.  
INTERNAL STANDARD RETENTION TIME SUMMARY  
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11050025  
Instrument ID: HPMS8  
Workgroup (AAB#): WG363971

ICAL CCV Number: WG362061-07  
CAL ID: HPMS8 - 16-APR-11  
Matrix: WATER

| Sample Number       | Dilution    | Tag         | IS-1         | IS-2         | IS-3         |
|---------------------|-------------|-------------|--------------|--------------|--------------|
| WG362061-07         | NA          | NA          | 17.17        | 14.16        | 10.31        |
| Upper Limit         | NA          | NA          | 17.67        | 14.66        | 10.81        |
| Lower Limit         | NA          | NA          | 16.67        | 13.66        | 9.81         |
| <u>L11050025-08</u> | <u>1000</u> | <u>DL02</u> | <u>17.17</u> | <u>14.16</u> | <u>10.31</u> |
| WG363971-01         | 1.00        | 01          | 17.17        | 14.16        | 10.31        |
| WG363971-02         | 1.00        | 01          | 17.16        | 14.17        | 10.31        |

IS-1 - 1,4-Dichlorobenzene-d4  
IS-2 - Chlorobenzene-d5  
IS-3 - Fluorobenzene

Underline = Response outside limits



## 3.0 Attachments

Microbac Laboratories Inc.  
Analyst Listing  
May 12, 2011

---

|                           |                             |                            |
|---------------------------|-----------------------------|----------------------------|
| ADC - ANTHONY D. CANTER   | AJF - AMANDA J. FICKIESEN   | ALB - ANNIE L. BROWN       |
| ALV - AMY L. VALENTINE    | AML - TONY M. LONG          | AZH - AFTER HOURS          |
| BLG - BRENDA L. GREENWALT | BRG - BRENDA R. GREGORY     | CAA - CASSIE A. AUGENSTEIN |
| CAF - CHERYL A. FLOWERS   | CEB - CHAD E. BARNES        | CLC - CHRYS L. CRAWFORD    |
| CLS - CARA L. STRICKLER   | CLW - CHARISSA L. WINTERS   | CPD - CHAD P. DAVIS        |
| CS - CODY M. STRAHLER     | CSH - CHRIS S. HILL         | DDE - DEBRA D. ELLIOTT     |
| DEL - DON E. LIGHTFRITZ   | DEV - DAVID E. VANDENBERG   | DGB - DOUGLAS G. BUTCHER   |
| DIH - DEANNA I. HESSON    | DLB - DAVID L. BUMGARNER    | DLP - DOROTHY L. PAYNE     |
| DLR - DIANNA L. RAUCH     | ECL - ERIC C. LAWSON        | EDL - ERIN D. LONG         |
| ERP - ERIN R. PORTER      | FJB - FRANCES J. BOLDEN     | HAV - HEMA VILASAGAR       |
| HJR - HOLLY J. REED       | JAL - JOHN A. LENT          | JBK - JEREMY B. KINNEY     |
| JDH - JUSTIN D. HESSON    | JKT - JANE K. THOMPSON      | JLL - JOHN L. LENT         |
| JWR - JOHN W. RICHARDS    | JWS - JACK W. SHEAVES       | JYH - JI Y. HU             |
| KEB - KATIE E. BARNES     | KHR - KIM H. RHODES         | KRA - KATHY R. ALBERTSON   |
| LKN - LINDA K. NEDEFF     | LSB - LESLIE S. BUCINA      | MDA - MIKE D. ALBERTSON    |
| MDC - MIKE D. COCHRAN     | MES - MARY E. SCHILLING     | MMB - MAREN M. BEERY       |
| MRT - MICHELLE R. TAYLOR  | MSW - MATT S. WILSON        | PDM - PIERCE D. MORRIS     |
| PWD - PAUL W. DENT        | RAH - ROY A. HALSTEAD       | RB - BOB BUCHANAN          |
| REK - BOB E. KYER         | RLK - ROBIN L. KLINGER      | RWC - RODNEY W. CAMPBELL   |
| SJP - SUZANNE J. PAUGH    | SLM - STEPHANIE L. MOSSBURG | SLP - SHERI L. PFALZGRAF   |
| TIP - TAE I. PARRISH      | TMB - TIFFANY M. BAILEY     | TMM - TAMMY M. MORRIS      |
| VC - VICKI COLLIER        | WJB - WILL J. BEASLEY       | WTD - WADE T. DELONG       |



May 12, 2011

Qualkey: CLP

| Qualifier | Description                                                                           |
|-----------|---------------------------------------------------------------------------------------|
| *         | Surrogate or spike compound out of range                                              |
| +         | Correlation coefficient for the MSA is less than 0.995                                |
| <         | Result is less than the associated numerical value.                                   |
| >         | Result is greater than the associated numerical value.                                |
| A         | See the report narrative                                                              |
| B         | Analyte present in method blank                                                       |
| B1        | Target analyte detected in method blank at or above the method reporting limit        |
| B3        | Target analyte detected in calibration blank at or above the method reporting limit   |
| B4        | The BOD unseeded dilution water blank exceeded 0.2 mg/L                               |
| C         | Confirmed by GC/MS                                                                    |
| CG        | Confluent growth                                                                      |
| DL        | Surrogate or spike compound was diluted out                                           |
| E         | Semiquantitative result (out of instrument calibration range)                         |
| EDL       | Elevated sample reporting limits, presence of non-target analytes                     |
| EMPC      | Estimated Maximum Possible Concentration                                              |
| F, S      | Estimated result below quantitation limit; method of standard additions(MSA)          |
| FL        | Free Liquid                                                                           |
| H1        | Sample analysis performed past holding time.                                          |
| I         | Semiquantitative result (out of instrument calibration range)                         |
| J         | Estimated concentration.                                                              |
| J         | The analyte was positively identified, but the quantitation was below the RL.         |
| J,B       | Analyte detected in both the method blank and sample above the MDL.                   |
| J,P       | Estimate; columns don't agree to within 40%                                           |
| J,S       | Estimated concentration; analyzed by method of standard addition (MSA)                |
| L         | Sample reporting limits elevated due to matrix interference                           |
| L1        | The associated blank spike (LCS) recovery was above the laboratory acceptance limits. |
| L2        | The associated blank spike (LCS) recovery was below the laboratory acceptance limits. |
| M         | Matrix effect; the concentration is an estimate due to matrix effect.                 |
| N         | Tentatively identified compound(TIC)                                                  |
| NA        | Not applicable                                                                        |
| ND        | Not detected at or above the reporting limit (RL).                                    |
| ND, L     | Not detected; sample reporting limit (RL) elevated due to interference                |
| ND, S     | Not detected; analyzed by method of standard addition (MSA)                           |
| NF        | Not found by library search                                                           |
| NFL       | No free liquid                                                                        |
| NI        | Non-ignitable                                                                         |
| NR        | Analyte is not required to be analyzed                                                |
| NS        | Not spiked                                                                            |
| P         | Concentrations >40% difference between the two GC columns                             |
| Q         | One or more quality control criteria failed. See narrative.                           |
| QNS       | Quantity of sample not sufficient to perform analysis                                 |
| RA        | Reanalysis confirms reported results                                                  |
| RE        | Reanalysis confirms sample matrix interference                                        |
| S         | Analyzed by method of standard addition (MSA)                                         |
| SMI       | Sample matrix interference on surrogate                                               |
| SP        | Reported results are for spike compounds only                                         |
| TIC       | Library Search Compound                                                               |
| TNTC      | Too numerous to count                                                                 |
| U         | Not detected at or above the reporting limit (RL).                                    |
| UJ        | Undetected; the MDL and RL are estimated due to quality control discrepancies.        |
| UJ        | Undetected; the analyte was analyzed for, but not detected.                           |
| UQ        | Undetected; the analyte was analyzed for, but not detected.                           |
| W         | Post-digestion spike for furnace AA out of control limits                             |
| X         | Exceeds regulatory limit                                                              |
| X, S      | Exceeds regulatory limit; method of standard additions (MSA)                          |
| Z         | Cannot be resolved from isomer - see below                                            |

**\*\*\*Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

COC No. A 24044

158 Starlite Drive

Marietta, OH 45750

Microbac

Phone: 740-373-4071

Fax: 740-373-4835

## CHAIN-OF-CUSTODY RECORD

|                                      |      |          |          |                                      |         |                                      |      |                                                                                                                                                                                         |  |
|--------------------------------------|------|----------|----------|--------------------------------------|---------|--------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Company Name: <b>CH2M HILL</b>       |      |          |          | Project Contact: <b>Bernice Kidd</b> |         | Contact Phone #: <b>530-229-3203</b> |      | Program<br><input type="checkbox"/> CWA<br><input checked="" type="checkbox"/> RCRA<br><input type="checkbox"/> DOD<br><input type="checkbox"/> AFCEE<br><input type="checkbox"/> Other |  |
| Turn Around Requirements: <b>STC</b> |      |          |          | Location: <b>Ashtland, OH</b>        |         |                                      |      | TOTAL # (LAB USE)                                                                                                                                                                       |  |
| Project ID: <b>DW Ashland</b>        |      |          |          | Signature: <b>Dan Telle</b>          |         |                                      |      | ADDITIONAL REQUIREMENTS                                                                                                                                                                 |  |
| Sample I.D. No.                      | Comp | Grab     | Date     | Time                                 | Matrix* | NUMBER OF CONTAINERS                 | Hold | VOCs (8260)                                                                                                                                                                             |  |
| MW07GW2030-042711                    | X    | X        | 04/27/11 | 1430                                 | W       | 3                                    | X    | X                                                                                                                                                                                       |  |
| MW07GW2030-042711-MSD                | X    | X        | 04/27/11 | 1430                                 | W       | 3                                    | X    | X                                                                                                                                                                                       |  |
| MW07GW2030-042711                    | X    | X        | 04/27/11 | 1740                                 | W       | 3                                    | X    | X                                                                                                                                                                                       |  |
| FD01-042711                          | X    | X        | 04/27/11 | —                                    | W       | 3                                    | X    | X                                                                                                                                                                                       |  |
| MW18GW3035-042711                    | X    | X        | 04/27/11 | 1510                                 | W       | 3                                    | X    | X                                                                                                                                                                                       |  |
| BW18GW1828-042711                    | X    | X        | 04/27/11 | 1600                                 | W       | 3                                    | X    | X                                                                                                                                                                                       |  |
| MW16GW1020-042711                    | X    | X        | 04/27/11 | 1650                                 | W       | 3                                    | X    | X                                                                                                                                                                                       |  |
| MW22GW2535-042811                    | X    | X        | 04/28/11 | 1015                                 | W       | 3                                    | X    | X                                                                                                                                                                                       |  |
| MW23GW3040-042811                    | X    | X        | 04/28/11 | 0925                                 | W       | 3                                    | X    | X                                                                                                                                                                                       |  |
| MW20GW2333-042811                    | X    | X        | 04/28/11 | 0825                                 | W       | 3                                    | X    | X                                                                                                                                                                                       |  |
| FD02-042811                          | X    | X        | 04/28/11 | —                                    | W       | 3                                    | X    | X                                                                                                                                                                                       |  |
| MW12GW1424-042811                    | X    | X        | 04/28/11 | 1055                                 | W       | 3                                    | X    | X                                                                                                                                                                                       |  |
| MW10GW1732-042811                    | X    | X        | 04/28/11 | 1140                                 | W       | 3                                    | X    | X                                                                                                                                                                                       |  |
| MW19GW1828-042811                    | X    | X        | 04/28/11 | 1330                                 | W       | 3                                    | X    | X                                                                                                                                                                                       |  |
| MW09GW1424-042811                    | X    | X        | 04/28/11 | 1410                                 | W       | 3                                    | X    | X                                                                                                                                                                                       |  |
| MW03GW1626-042811                    | X    | X        | 04/28/11 | 1450                                 | W       | 3                                    | X    | X                                                                                                                                                                                       |  |
| TRIP BLANK-042811                    | X    | X        | 04/28/11 | —                                    | W       | 2                                    | X    | X                                                                                                                                                                                       |  |
| Relinquished by: <b>Dan Telle</b>    |      |          |          |                                      |         | Microbac OVD                         |      | 221000014465                                                                                                                                                                            |  |
| Date                                 |      | Date     |          | Time                                 |         | Received by: (Signature)             |      | Time                                                                                                                                                                                    |  |
| 04/28/11                             |      | 04/28/11 |          | 1700                                 |         |                                      |      |                                                                                                                                                                                         |  |
| Relinquished by: (Signature)         |      |          |          |                                      |         | By: <b>BRENDA GREENWALT</b>          |      | Remarks:                                                                                                                                                                                |  |
| Date                                 |      |          |          |                                      |         | Time                                 |      |                                                                                                                                                                                         |  |
| 04/28/11                             |      |          |          |                                      |         | 1700                                 |      |                                                                                                                                                                                         |  |

\*Water (W), Soil (S), Solid Waste (SD), Unknown (X)



1000014465

## COOLER INSPECTION



Received: 04/29/2011 10:25  
Delivery Method: FedEx  
Opened By: Brenda Greenwalt  
Comments:

Login(s): L11050025|

## Cooler(s)

| Cooler # | Temp Gun | Temp | Tracking #                       | COC #    | Comments |
|----------|----------|------|----------------------------------|----------|----------|
| 0015696  | G        | 3.0  | 34575020110000038756554621382007 | COC24044 |          |

|    |     |                                                            |
|----|-----|------------------------------------------------------------|
| 1  | Yes | Were shipping coolers sealed?                              |
| 2  | Yes | Were custody seals intact?                                 |
| 3  | Yes | Were cooler temperatures in range of 0-6?                  |
| 4  | Yes | Was ice present?                                           |
| 5  | Yes | Were COC's received/information complete/signed and dated? |
| 6  | Yes | Were sample containers and labels intact and match COC?    |
| 7  | Yes | Were the correct containers and volumes received?          |
| 8  | Yes | Were samples received within EPA hold times?               |
| 9  | Yes | Were correct perservatives used? (water only)              |
| 10 | NA  | Were pH ranges acceptable? (voa's excluded)                |
| 11 | Yes | Were VOA samples free of headspace (less than 6mm)?        |

Discrepancies:

**Look closer. Go further. Do more.**

Microbac - Ohio Valley Division  
158 Starlite Drive  
Marietta, OH 45750  
Tel: (740)373-4071 Fax: (740)373-4835

## Internal Chain of Custody Report

Login: L11050025

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 13-MAY-2011

**Samplenum**      **Container ID**      **Products**  
**L11050025-01**      825897      826-SPE1

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:54 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:54 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:54 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

**Samplenum**      **Container ID**      **Products**  
**L11050025-02**      825898      826-SPE1

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:54 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:54 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

**Samplenum**      **Container ID**      **Products**  
**L11050025-03**      825899      826-SPE1

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:54 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L11050025

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 13-MAY-2011

| <u>Samplenum</u> | <u>Container ID</u> | <u>Products</u> |
|------------------|---------------------|-----------------|
| L11050025-04     | 825900              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:54 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:54 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:54 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

| <u>Samplenum</u> | <u>Container ID</u> | <u>Products</u> |
|------------------|---------------------|-----------------|
| L11050025-05     | 825901              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:54 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:54 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:54 | TMB    | JKT        |

A1 - Sample Archive (COLD)  
 A2 - Sample Archive (AMBIENT)  
 F1 - Volatiles Freezer in Login  
 V1 - Volatiles Refrigerator in Login  
 W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L11050025

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 13-MAY-2011

| <u>Samplenum</u>    | <u>Container ID</u> | <u>Products</u> |
|---------------------|---------------------|-----------------|
| <b>L11050025-06</b> | 825902              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:54 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:54 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

| <u>Samplenum</u>    | <u>Container ID</u> | <u>Products</u> |
|---------------------|---------------------|-----------------|
| <b>L11050025-07</b> | 825903              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

A1 - Sample Archive (COLD)  
 A2 - Sample Archive (AMBIENT)  
 F1 - Volatiles Freezer in Login  
 V1 - Volatiles Refrigerator in Login  
 W1 - Walkin Cooler in Login





## Internal Chain of Custody Report

Login: L11050025

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 13-MAY-2011

| <u>Samplenum</u> | <u>Container ID</u> | <u>Products</u> |
|------------------|---------------------|-----------------|
| L11050025-08     | 825904              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

| <u>Samplenum</u> | <u>Container ID</u> | <u>Products</u> |
|------------------|---------------------|-----------------|
| L11050025-09     | 825905              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:45 | JKT    | CS         |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |

A1 - Sample Archive (COLD)  
 A2 - Sample Archive (AMBIENT)  
 F1 - Volatiles Freezer in Login  
 V1 - Volatiles Refrigerator in Login  
 W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L11050025

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 13-MAY-2011

| <u>Samplenum</u>    | <u>Container ID</u> | <u>Products</u> |
|---------------------|---------------------|-----------------|
| <b>L11050025-10</b> | 825906              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

| <u>Samplenum</u>    | <u>Container ID</u> | <u>Products</u> |
|---------------------|---------------------|-----------------|
| <b>L11050025-11</b> | 825907              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |

A1 - Sample Archive (COLD)  
 A2 - Sample Archive (AMBIENT)  
 F1 - Volatiles Freezer in Login  
 V1 - Volatiles Refrigerator in Login  
 W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L11050025

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 13-MAY-2011

**Samplenum**      **Container ID**      **Products**  
**L11050025-12**      825908      826-SPE1

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |

**Samplenum**      **Container ID**      **Products**  
**L11050025-13**      825909      826-SPE1

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L11050025

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 13-MAY-2011

**Samplenum**      **Container ID**      **Products**  
**L11050025-14**      825910      826-SPE1

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

**Samplenum**      **Container ID**      **Products**  
**L11050025-15**      825911      826-SPE1

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:56 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:56 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:56 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L11050025

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 13-MAY-2011

**Samplenum**      **Container ID**      **Products**  
**L11050025-16**      825912      826-SPE1

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:55 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

**Samplenum**      **Container ID**      **Products**  
**L11050025-17**      825913      826-SPE1

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:56 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:56 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:46 | JKT    | CS         |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:56 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:47 | JKT    | CS         |

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

**Login:** L11050025**Account:** 2736**Project:** 2736.059**Samples:** 18**Due Date:** 13-MAY-2011

| <u>Samplenum</u>    | <u>Container ID</u> | <u>Products</u> |
|---------------------|---------------------|-----------------|
| <b>L11050025-18</b> | 825914              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:56 | TMB    | JKT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 02-MAY-2011 13:06 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 02-MAY-2011 13:56 | TMB    | JKT        |
| 3    | STORE   | ORG4   | A2   | 12-MAY-2011 08:47 | JKT    | CS         |

A1 - Sample Archive (COLD)  
 A2 - Sample Archive (AMBIENT)  
 F1 - Volatiles Freezer in Login  
 V1 - Volatiles Refrigerator in Login  
 W1 - Walkin Cooler in Login







**Laboratory Report Number: L11100907**

Shane Lowe  
CH2MHILL, Inc  
CH2MHill  
St. Louis, MO 63102

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

This report was reviewed on November 14 2011

A handwritten signature in black ink, reading "Kathy Albertson". The signature is fluid and cursive, with the first name "Kathy" being more prominent than the last name "Albertson".

Kathy Albertson – Team Chemist/Data Specialist  
(740) 373-4071  
Kathy.Albertson@microbac.com

*I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.*

This report was certified on November 14 2011

A handwritten signature in blue ink, reading "David E. Vandenberg". The signature is cursive and elegant, with the first name "David" being the most prominent part.

David Vandenberg – Managing Director

State of Origin: OH  
Accrediting Authority: N/A ID:N/A  
QAPP: ASHLAND



Microbac Laboratories \* Ohio Valley Division  
158 Starlite Drive, Marietta, OH 45750 \* T: (740) 373-4071 F: (740) 373-4835 \* www.microbac.com

## Record of Sample Receipt and Inspection

### Comments/Discrepancies

This is record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

There were no discrepancies.

| Discrepancy | Resolution |
|-------------|------------|
|-------------|------------|

### Coolers

| Cooler # | Temperature Gun | Temperature | COC # | Airbill #                        |
|----------|-----------------|-------------|-------|----------------------------------|
| 0013843  | G               | 0.0         |       | 34575002110000018758127184192004 |

### Inspection Checklist

| #  | Question                                                   | Result |
|----|------------------------------------------------------------|--------|
| 1  | Were shipping coolers sealed?                              | Yes    |
| 2  | Were custody seals intact?                                 | Yes    |
| 3  | Were cooler temperatures in range of 0-6?                  | Yes    |
| 4  | Was ice present?                                           | Yes    |
| 5  | Were COC's received/information complete/signed and dated? | Yes    |
| 6  | Were sample containers intact and match COC?               | Yes    |
| 7  | Were sample labels intact and match COC?                   | Yes    |
| 8  | Were the correct containers and volumes received?          | Yes    |
| 9  | Were samples received within EPA hold times?               | Yes    |
| 10 | Were correct preservatives used? (water only)              | Yes    |
| 11 | Were pH ranges acceptable? (voa's excluded)                | NA     |
| 12 | Were VOA samples free of headspace (less than 6mm)?        | Yes    |

**Samples Received**

| Client ID             | Laboratory ID | Date Collected   | Date Received    |
|-----------------------|---------------|------------------|------------------|
| MW18GW3035-102411     | L11100907-01  | 10/24/2011 14:25 | 10/26/2011 11:08 |
| BMWGW1828-102411      | L11100907-02  | 10/24/2011 15:10 | 10/26/2011 11:08 |
| MW16GW1020-102411     | L11100907-03  | 10/24/2011 15:40 | 10/26/2011 11:08 |
| MW07GW2030-102411     | L11100907-04  | 10/24/2011 16:40 | 10/26/2011 11:08 |
| MW07GW2030-102411-MS  | L11100907-05  | 10/24/2011 16:40 | 10/26/2011 11:08 |
| MW07GW2030-102411-MSD | L11100907-06  | 10/24/2011 16:40 | 10/26/2011 11:08 |
| MW21GW2434-102511     | L11100907-07  | 10/25/2011 08:15 | 10/26/2011 11:08 |
| MW20GW2333-102511     | L11100907-08  | 10/25/2011 09:05 | 10/26/2011 11:08 |
| FD01-102511           | L11100907-09  | 10/25/2011 00:01 | 10/26/2011 11:08 |
| MW23GW3040-102511     | L11100907-10  | 10/25/2011 09:45 | 10/26/2011 11:08 |
| MW22GW2535-102511     | L11100907-11  | 10/25/2011 10:25 | 10/26/2011 11:08 |
| MW12GW1424-102511     | L11100907-12  | 10/25/2011 11:00 | 10/26/2011 11:08 |
| MW03GW1626-102511     | L11100907-13  | 10/25/2011 12:40 | 10/26/2011 11:08 |
| MW10GW1732-102511     | L11100907-14  | 10/25/2011 13:15 | 10/26/2011 11:08 |
| MW19GW1828-102511     | L11100907-15  | 10/25/2011 13:45 | 10/26/2011 11:08 |
| MW09GW1424-102511     | L11100907-16  | 10/25/2011 14:20 | 10/26/2011 11:08 |
| FD02-102511           | L11100907-17  | 10/25/2011 00:01 | 10/26/2011 11:08 |
| TRIP BLANK-102511     | L11100907-18  | 10/25/2011 00:01 | 10/26/2011 11:08 |



**Login Number:** L11100907  
**Department:** Volatiles  
**Analyst:** Anthony Canter

## METHOD

**Preparation** SW-846 5030C/5035A

**Analysis** SW-846 8260B

## HOLDING TIMES

**Sample Preparation:** All holding times were met.

**Sample Analysis:** All holding times were met.

## PREPARATION

Sample preparation proceeded normally.

## CALIBRATION

**Initial Calibration:** For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

**Alternate Source Standards:** All acceptance criteria were met.

**Continuing Calibration and Tune:** Recoveries out of range were observed for the following analytes: Chloromethane, Vinyl Chloride, Bromomethane. Please see the applicable QC report for a detailed presentation of the failures. Target analytes met CCC acceptance criteria in the CCV associated with the vinyl chloride outlier.

## BATCH QA/QC

**Method Blank:** All acceptance criteria were met.

**Laboratory Control Sample:** Recoveries out of range were observed for the following analytes: Chloromethane. Please see the applicable QC report for a detailed presentation of the failures.

**Matrix Spikes:** Recoveries out of range were observed for the following analytes: Chloromethane. Please see the applicable QC report for a detailed presentation of the failures.

## SAMPLES

**Internal Standards:** All acceptance criteria were met.

**Surrogates:** All acceptance criteria were met.

**Other:** Samples 03, were run at a dilution.

## Manual Integration Reason Codes

**Reason #1: Data System Fails to Select Correct Peak.** In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

**Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.** This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

**Reason #3: Improperly Integrated Isomers and/or coeluting compounds.** This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

**Reason #4: System Establishes Incorrect Baseline.** There are numerous situations in chromatography where the

system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

**Reason #5: Miscellaneous.** Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

**Narrative ID:** 38238

**Approved By:** Michael Albertson



The following report lists the analytes that were manually integrated.

**Method:** 8260

| Sample #    | Type | Analyte          | File ID  | Dilution | Code # |
|-------------|------|------------------|----------|----------|--------|
| Sample #    | Type | Analyte          | File ID  | Dilution | Code # |
| WG355612-08 | STD  | ISOBUTYL ALCOHOL | 8M367712 | 1        | 1      |
| WG355612-09 | STD  | ISOBUTYL ALCOHOL | 8M367713 | 1        | 1      |

#### Reason Code Descriptions

| Code | Description                                                                        |
|------|------------------------------------------------------------------------------------|
| 1    | Data system fails to select the correct peak                                       |
| 2    | Data system splits the peak incorrectly or integrates a false peak as a rider peak |
| 3    | Improperly integrated isomers and/or coeluting compounds                           |
| 4    | System established incorrect baseline                                              |
| 5    | Miscellaneous                                                                      |



Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-01**  
 Client ID: **MW18GW3035-102411**  
 Matrix: **Water**  
 Workgroup Number: **WG380629**  
 Collect Date: **10/24/2011 14:25**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **10/31/2011 17:18**  
 Cal Date: **10/23/2011 22:04**  
 Run Date: **10/31/2011 17:18**  
 File ID: **10M91017**

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     |        | U    | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U    | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U    | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U    | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U    | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U    | 10.0 | 0.250 |

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 115        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 103        | 80    | 120   |      |
| Toluene-d8            | 92.1       | 88    | 110   |      |
| 4-Bromofluorobenzene  | 92.3       | 86    | 115   |      |

U Not detected at or above the reporting limit (RL).

Sample Number: **L11100907-02**  
 Client ID: **BMWGW1828-102411**  
 Matrix: **Water**  
 Workgroup Number: **WG380629**  
 Collect Date: **10/24/2011 15:10**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **10/31/2011 17:50**  
 Cal Date: **10/23/2011 22:04**  
 Run Date: **10/31/2011 17:50**  
 File ID: **10M91018**

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     |        | U    | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U    | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U    | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U    | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U    | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U    | 10.0 | 0.250 |

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 115        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 105        | 80    | 120   |      |
| Toluene-d8            | 93.6       | 88    | 110   |      |
| 4-Bromofluorobenzene  | 92.6       | 86    | 115   |      |

U Not detected at or above the reporting limit (RL).

Sample Number: **L11100907-03**  
 Client ID: **MW16GW1020-102411**  
 Matrix: **Water**  
 Workgroup Number: **WG380729**  
 Collect Date: **10/24/2011 15:40**  
 Sample Tag: **DL01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **10000**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **11/01/2011 18:44**  
 Cal Date: **10/23/2011 22:04**  
 Run Date: **11/01/2011 18:44**  
 File ID: **10M91053**

| Analyte                | CAS. Number | Result | Qual | RL     | MDL  |
|------------------------|-------------|--------|------|--------|------|
| Bromomethane           | 74-83-9     |        | U    | 100000 | 5000 |
| Chloroform             | 67-66-3     |        | U    | 50000  | 1250 |
| Chloromethane          | 74-87-3     |        | U    | 100000 | 5000 |
| Methylene chloride     | 75-09-2     |        | U    | 50000  | 2500 |
| Trichloroethene        | 79-01-6     |        | U    | 50000  | 2500 |
| Trichlorofluoromethane | 75-69-4     | 273000 |      | 100000 | 2500 |

Report Number: L11100907

Report Date : November 14, 2011

Sample Number: L11100907-03  
 Client ID: MW16GW1020-102411  
 Matrix: Water  
 Workgroup Number: WG380729  
 Collect Date: 10/24/2011 15:40  
 Sample Tag: DL01

PrePrep Method: NONE  
 Prep Method: 5030B/5030C/5035  
 Analytical Method: 8260B  
 Analyst: MES  
 Dilution: 10000  
 Units: ug/L

Instrument: HPMS10  
 Prep Date: 11/01/2011 18:44  
 Cal Date: 10/23/2011 22:04  
 Run Date: 11/01/2011 18:44  
 File ID: 10M91053

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 110        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 99.2       | 80    | 120   |      |
| Toluene-d8            | 92.8       | 88    | 110   |      |
| 4-Bromofluorobenzene  | 92.2       | 86    | 115   |      |

U Not detected at or above the reporting limit (RL).

Sample Number: L11100907-03  
 Client ID: MW16GW1020-102411  
 Matrix: Water  
 Workgroup Number: WG380629  
 Collect Date: 10/24/2011 15:40  
 Sample Tag: DL02

PrePrep Method: NONE  
 Prep Method: 5030B/5030C/5035  
 Analytical Method: 8260B  
 Analyst: MES  
 Dilution: 1000  
 Units: ug/L

Instrument: HPMS10  
 Prep Date: 10/31/2011 20:02  
 Cal Date: 10/23/2011 22:04  
 Run Date: 10/31/2011 20:02  
 File ID: 10M91022

| Analyte                | CAS. Number | Result | Qual | RL    | MDL |
|------------------------|-------------|--------|------|-------|-----|
| Bromomethane           | 74-83-9     |        | U    | 10000 | 500 |
| Chloroform             | 67-66-3     |        | U    | 5000  | 125 |
| Chloromethane          | 74-87-3     |        | U    | 10000 | 500 |
| Methylene chloride     | 75-09-2     |        | U    | 5000  | 250 |
| Trichloroethene        | 79-01-6     |        | U    | 5000  | 250 |
| Trichlorofluoromethane | 75-69-4     | 309000 | E    | 10000 | 250 |

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 111        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 98.5       | 80    | 120   |      |
| Toluene-d8            | 93.5       | 88    | 110   |      |
| 4-Bromofluorobenzene  | 93.1       | 86    | 115   |      |

E Semiquantitative result (out of instrument calibration range)

U Not detected at or above the reporting limit (RL).

Sample Number: L11100907-04  
 Client ID: MW07GW2030-102411  
 Matrix: Water  
 Workgroup Number: WG380629  
 Collect Date: 10/24/2011 16:40  
 Sample Tag: 01

PrePrep Method: NONE  
 Prep Method: 5030B/5030C/5035  
 Analytical Method: 8260B  
 Analyst: MES  
 Dilution: 1  
 Units: ug/L

Instrument: HPMS10  
 Prep Date: 10/31/2011 18:23  
 Cal Date: 10/23/2011 22:04  
 Run Date: 10/31/2011 18:23  
 File ID: 10M91019

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     |        | U    | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U    | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U    | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U    | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U    | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 16.3   |      | 10.0 | 0.250 |

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 112        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 102        | 80    | 120   |      |
| Toluene-d8            | 93.6       | 88    | 110   |      |
| 4-Bromofluorobenzene  | 94.9       | 86    | 115   |      |

U Not detected at or above the reporting limit (RL).

Report Number: L11100907

Report Date : November 14, 2011

Sample Number: L11100907-05  
 Client ID: MW07GW2030-102411-MS  
 Matrix: Water  
 Workgroup Number: W6380629  
 Collect Date: 10/24/2011 16:40  
 Sample Tag: 01

PrePrep Method: NONE  
 Prep Method: 5030B/5030C/5035  
 Analytical Method: 8260B  
 Analyst: MES  
 Dilution: 1  
 Units: ug/L

Instrument: HPMS10  
 Prep Date: 10/31/2011 18:56  
 Cal Date: 10/23/2011 22:04  
 Run Date: 10/31/2011 18:56  
 File ID: 10M91020

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     | 20.8   |      | 10.0 | 0.500 |
| Chloroform             | 67-66-3     | 18.7   |      | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     | 28.8   |      | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     | 20.5   |      | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 21.2   |      | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 31.2   |      | 10.0 | 0.250 |

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 102        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 94.4       | 80    | 120   |      |
| Toluene-d8            | 92.6       | 88    | 110   |      |
| 4-Bromofluorobenzene  | 93.2       | 86    | 115   |      |

Sample Number: L11100907-06  
 Client ID: MW07GW2030-102411-MSD  
 Matrix: Water  
 Workgroup Number: W6380629  
 Collect Date: 10/24/2011 16:40  
 Sample Tag: 01

PrePrep Method: NONE  
 Prep Method: 5030B/5030C/5035  
 Analytical Method: 8260B  
 Analyst: MES  
 Dilution: 1  
 Units: ug/L

Instrument: HPMS10  
 Prep Date: 10/31/2011 19:29  
 Cal Date: 10/23/2011 22:04  
 Run Date: 10/31/2011 19:29  
 File ID: 10M91021

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     | 21.9   |      | 10.0 | 0.500 |
| Chloroform             | 67-66-3     | 19.4   |      | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     | 29.5   |      | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     | 21.4   |      | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 21.5   |      | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 31.9   |      | 10.0 | 0.250 |

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 104        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 95.1       | 80    | 120   |      |
| Toluene-d8            | 94.0       | 88    | 110   |      |
| 4-Bromofluorobenzene  | 92.7       | 86    | 115   |      |

Sample Number: L11100907-07  
 Client ID: MW21GW2434-102511  
 Matrix: Water  
 Workgroup Number: W6380862  
 Collect Date: 10/25/2011 08:15  
 Sample Tag: 01

PrePrep Method: NONE  
 Prep Method: 5030B/5030C/5035  
 Analytical Method: 8260B  
 Analyst: ADC  
 Dilution: 1  
 Units: ug/L

Instrument: HPMS8  
 Prep Date: 11/02/2011 16:37  
 Cal Date: 11/01/2011 14:55  
 Run Date: 11/02/2011 16:37  
 File ID: 8M374778

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     |        | U    | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U    | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U    | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U    | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U    | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U    | 10.0 | 0.250 |

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 109        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 110        | 80    | 120   |      |
| Toluene-d8            | 98.6       | 88    | 110   |      |
| 4-Bromofluorobenzene  | 101        | 86    | 115   |      |

U Not detected at or above the reporting limit (RL).

Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-08**  
 Client ID: **MW206W2333-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380862**  
 Collect Date: **10/25/2011 09:05**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **11/02/2011 17:09**  
 Cal Date: **11/01/2011 14:55**  
 Run Date: **11/02/2011 17:09**  
 File ID: **8M374779**

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     |        | U    | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U    | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U    | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U    | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U    | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U    | 10.0 | 0.250 |

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 103        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 97.9       | 80    | 120   |      |
| Toluene-d8            | 96.3       | 88    | 110   |      |
| 4-Bromofluorobenzene  | 100        | 86    | 115   |      |

U Not detected at or above the reporting limit (RL).

Sample Number: **L11100907-09**  
 Client ID: **FD01-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380629**  
 Collect Date: **10/25/2011 00:01**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **10/31/2011 20:34**  
 Cal Date: **10/23/2011 22:04**  
 Run Date: **10/31/2011 20:34**  
 File ID: **10M91023**

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     |        | U    | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U    | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U    | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U    | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U    | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U    | 10.0 | 0.250 |

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 113        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 101        | 80    | 120   |      |
| Toluene-d8            | 94.4       | 88    | 110   |      |
| 4-Bromofluorobenzene  | 94.2       | 86    | 115   |      |

U Not detected at or above the reporting limit (RL).

Sample Number: **L11100907-10**  
 Client ID: **MW23GW3040-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380862**  
 Collect Date: **10/25/2011 09:45**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **11/02/2011 17:40**  
 Cal Date: **11/01/2011 14:55**  
 Run Date: **11/02/2011 17:40**  
 File ID: **8M374780**

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     |        | U    | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U    | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U    | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U    | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U    | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U    | 10.0 | 0.250 |

Report Number: L11100907

Report Date : November 14, 2011

Sample Number: L11100907-10  
 Client ID: MW23GW3040-102511  
 Matrix: Water  
 Workgroup Number: W6380862  
 Collect Date: 10/25/2011 09:45  
 Sample Tag: 01

PrePrep Method: NONE  
 Prep Method: 5030B/5030C/5035  
 Analytical Method: 8260B  
 Analyst: ADC  
 Dilution: 1  
 Units: ug/L

Instrument: HPMS8  
 Prep Date: 11/02/2011 17:40  
 Cal Date: 11/01/2011 14:55  
 Run Date: 11/02/2011 17:40  
 File ID: 8M374780

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 106        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 102        | 80    | 120   |      |
| Toluene-d8            | 103        | 88    | 110   |      |
| 4-Bromofluorobenzene  | 97.3       | 86    | 115   |      |

U Not detected at or above the reporting limit (RL).

Sample Number: L11100907-11  
 Client ID: MW22GW2535-102511  
 Matrix: Water  
 Workgroup Number: W6380862  
 Collect Date: 10/25/2011 10:25  
 Sample Tag: 01

PrePrep Method: NONE  
 Prep Method: 5030B/5030C/5035  
 Analytical Method: 8260B  
 Analyst: ADC  
 Dilution: 1  
 Units: ug/L

Instrument: HPMS8  
 Prep Date: 11/02/2011 18:11  
 Cal Date: 11/01/2011 14:55  
 Run Date: 11/02/2011 18:11  
 File ID: 8M374781

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     |        | U    | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U    | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U    | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U    | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U    | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U    | 10.0 | 0.250 |

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 105        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 109        | 80    | 120   |      |
| Toluene-d8            | 101        | 88    | 110   |      |
| 4-Bromofluorobenzene  | 96.4       | 86    | 115   |      |

U Not detected at or above the reporting limit (RL).

Sample Number: L11100907-12  
 Client ID: MW12GW1424-102511  
 Matrix: Water  
 Workgroup Number: W6380862  
 Collect Date: 10/25/2011 11:00  
 Sample Tag: 01

PrePrep Method: NONE  
 Prep Method: 5030B/5030C/5035  
 Analytical Method: 8260B  
 Analyst: ADC  
 Dilution: 1  
 Units: ug/L

Instrument: HPMS8  
 Prep Date: 11/02/2011 18:43  
 Cal Date: 11/01/2011 14:55  
 Run Date: 11/02/2011 18:43  
 File ID: 8M374782

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     |        | U    | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U    | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U    | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U    | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 15.2   |      | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U    | 10.0 | 0.250 |

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 108        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 114        | 80    | 120   |      |
| Toluene-d8            | 93.0       | 88    | 110   |      |
| 4-Bromofluorobenzene  | 101        | 86    | 115   |      |

U Not detected at or above the reporting limit (RL).

Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-13**  
 Client ID: **MW03GW1626-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380862**  
 Collect Date: **10/25/2011 12:40**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **11/02/2011 19:14**  
 Cal Date: **11/01/2011 14:55**  
 Run Date: **11/02/2011 19:14**  
 File ID: **8M374783**

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     |        | U    | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U    | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U    | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U    | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 0.821  | J    | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U    | 10.0 | 0.250 |

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 104        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 103        | 80    | 120   |      |
| Toluene-d8            | 98.9       | 88    | 110   |      |
| 4-Bromofluorobenzene  | 98.6       | 86    | 115   |      |

U Not detected at or above the reporting limit (RL).

J The analyte was positively identified, but the quantitation was below the RL.

Sample Number: **L11100907-14**  
 Client ID: **MW10GW1732-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380862**  
 Collect Date: **10/25/2011 13:15**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **11/02/2011 19:45**  
 Cal Date: **11/01/2011 14:55**  
 Run Date: **11/02/2011 19:45**  
 File ID: **8M374784**

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     |        | U    | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U    | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U    | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U    | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 11.3   |      | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U    | 10.0 | 0.250 |

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 105        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 102        | 80    | 120   |      |
| Toluene-d8            | 99.3       | 88    | 110   |      |
| 4-Bromofluorobenzene  | 106        | 86    | 115   |      |

U Not detected at or above the reporting limit (RL).

Sample Number: **L11100907-15**  
 Client ID: **MW19GW1828-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380862**  
 Collect Date: **10/25/2011 13:45**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **11/02/2011 20:17**  
 Cal Date: **11/01/2011 14:55**  
 Run Date: **11/02/2011 20:17**  
 File ID: **8M374785**

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     |        | U    | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U    | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U    | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U    | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 13.6   |      | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U    | 10.0 | 0.250 |



Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-15**  
 Client ID: **MW19GW1828-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380862**  
 Collect Date: **10/25/2011 13:45**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **11/02/2011 20:17**  
 Cal Date: **11/01/2011 14:55**  
 Run Date: **11/02/2011 20:17**  
 File ID: **8M374785**

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 102        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 99.1       | 80    | 120   |      |
| Toluene-d8            | 102        | 88    | 110   |      |
| 4-Bromofluorobenzene  | 102        | 86    | 115   |      |

**U** Not detected at or above the reporting limit (RL).

Sample Number: **L11100907-16**  
 Client ID: **MW09GW1424-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380862**  
 Collect Date: **10/25/2011 14:20**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **11/02/2011 20:48**  
 Cal Date: **11/01/2011 14:55**  
 Run Date: **11/02/2011 20:48**  
 File ID: **8M374786**

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     |        | U    | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U    | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U    | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U    | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 33.8   |      | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 3.54   | J    | 10.0 | 0.250 |

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 103        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 101        | 80    | 120   |      |
| Toluene-d8            | 101        | 88    | 110   |      |
| 4-Bromofluorobenzene  | 108        | 86    | 115   |      |

**U** Not detected at or above the reporting limit (RL).

**J** The analyte was positively identified, but the quantitation was below the RL.

Sample Number: **L11100907-17**  
 Client ID: **FD02-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380629**  
 Collect Date: **10/25/2011 00:01**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **10/31/2011 21:07**  
 Cal Date: **10/23/2011 22:04**  
 Run Date: **10/31/2011 21:07**  
 File ID: **10M91024**

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     |        | U    | 10.0 | 0.500 |
| Chloroform             | 67-66-3     | 0.130  | J    | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U    | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U    | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 30.1   |      | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 4.10   | J    | 10.0 | 0.250 |

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 114        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 105        | 80    | 120   |      |
| Toluene-d8            | 93.1       | 88    | 110   |      |
| 4-Bromofluorobenzene  | 92.8       | 86    | 115   |      |

**U** Not detected at or above the reporting limit (RL).

**J** The analyte was positively identified, but the quantitation was below the RL.

Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-18**  
 Client ID: **TRIP BLANK-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380629**  
 Collect Date: **10/25/2011 00:01**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **10/31/2011 16:47**  
 Cal Date: **10/23/2011 22:04**  
 Run Date: **10/31/2011 16:47**  
 File ID: **10M91016**

| Analyte                | CAS. Number | Result | Qual | RL   | MDL   |
|------------------------|-------------|--------|------|------|-------|
| Bromomethane           | 74-83-9     |        | U    | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U    | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U    | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U    | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U    | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U    | 10.0 | 0.250 |

| Surrogate             | % Recovery | Lower | Upper | Qual |
|-----------------------|------------|-------|-------|------|
| Dibromofluoromethane  | 118        | 86    | 118   |      |
| 1,2-Dichloroethane-d4 | 104        | 80    | 120   |      |
| Toluene-d8            | 93.8       | 88    | 110   |      |
| 4-Bromofluorobenzene  | 94.3       | 86    | 115   |      |

U Not detected at or above the reporting limit (RL).

## **2.1 Volatiles Data**

## **2.1.1 Volatiles GCMS Data (8260)**

## **2.1.1.1 Summary Data**



**Login Number:** L11100907  
**Department:** Volatiles  
**Analyst:** Anthony Canter

## METHOD

**Preparation** SW-846 5030C/5035A

**Analysis** SW-846 8260B

## HOLDING TIMES

**Sample Preparation:** All holding times were met.

**Sample Analysis:** All holding times were met.

## PREPARATION

Sample preparation proceeded normally.

## CALIBRATION

**Initial Calibration:** For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

**Alternate Source Standards:** All acceptance criteria were met.

**Continuing Calibration and Tune:** Recoveries out of range were observed for the following analytes: Chloromethane, Vinyl Chloride, Bromomethane. Please see the applicable QC report for a detailed presentation of the failures. Target analytes met CCC acceptance criteria in the CCV associated with the vinyl chloride outlier.

## BATCH QA/QC

**Method Blank:** All acceptance criteria were met.

**Laboratory Control Sample:** Recoveries out of range were observed for the following analytes: Chloromethane. Please see the applicable QC report for a detailed presentation of the failures.

**Matrix Spikes:** Recoveries out of range were observed for the following analytes: Chloromethane. Please see the applicable QC report for a detailed presentation of the failures.

## SAMPLES

**Internal Standards:** All acceptance criteria were met.

**Surrogates:** All acceptance criteria were met.

**Other:** Samples 03, were run at a dilution.

## Manual Integration Reason Codes

**Reason #1: Data System Fails to Select Correct Peak.** In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

**Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.** This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

**Reason #3: Improperly Integrated Isomers and/or coeluting compounds.** This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

**Reason #4: System Establishes Incorrect Baseline.** There are numerous situations in chromatography where the



system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

**Reason #5: Miscellaneous.** Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

**Narrative ID:** 38238

**Approved By:** Michael Albertson



# LABORATORY REPORT

L11100907

11/14/11 15:11

Submitted By

Microbac Laboratories Inc.  
158 Starlite Drive  
Marietta, OH 45750  
(740) 373-4071

For

Account Name: CH2MHILL, Inc  
CH2MHill  
727 North 1st Street, Suite 400  
St. Louis, MO 63102  
Attention: Shane Lowe

Project Number: 2736.059  
Project: Dow Ashland Soil & Groundwater  
Site: ASHLAND, OHIO

P.O. Number: 934254

## Sample Analysis Summary

| Client ID             | Lab ID       | Method | Dilution | Date Received |
|-----------------------|--------------|--------|----------|---------------|
| MW18GW3035-102411     | L11100907-01 | 8260B  | 1        | 26-OCT-11     |
| BMWGW1828-102411      | L11100907-02 | 8260B  | 1        | 26-OCT-11     |
| MW16GW1020-102411     | L11100907-03 | 8260B  | 10000    | 26-OCT-11     |
| MW16GW1020-102411     | L11100907-03 | 8260B  | 1000     | 26-OCT-11     |
| MW07GW2030-102411     | L11100907-04 | 8260B  | 1        | 26-OCT-11     |
| MW07GW2030-102411-MS  | L11100907-05 | 8260B  | 1        | 26-OCT-11     |
| MW07GW2030-102411-MSD | L11100907-06 | 8260B  | 1        | 26-OCT-11     |
| MW21GW2434-102511     | L11100907-07 | 8260B  | 1        | 26-OCT-11     |
| MW20GW2333-102511     | L11100907-08 | 8260B  | 1        | 26-OCT-11     |
| FD01-102511           | L11100907-09 | 8260B  | 1        | 26-OCT-11     |
| MW23GW3040-102511     | L11100907-10 | 8260B  | 1        | 26-OCT-11     |
| MW22GW2535-102511     | L11100907-11 | 8260B  | 1        | 26-OCT-11     |
| MW12GW1424-102511     | L11100907-12 | 8260B  | 1        | 26-OCT-11     |
| MW03GW1626-102511     | L11100907-13 | 8260B  | 1        | 26-OCT-11     |
| MW10GW1732-102511     | L11100907-14 | 8260B  | 1        | 26-OCT-11     |
| MW19GW1828-102511     | L11100907-15 | 8260B  | 1        | 26-OCT-11     |
| MW09GW1424-102511     | L11100907-16 | 8260B  | 1        | 26-OCT-11     |
| FD02-102511           | L11100907-17 | 8260B  | 1        | 26-OCT-11     |
| TRIP BLANK-102511     | L11100907-18 | 8260B  | 1        | 26-OCT-11     |

L1\_A\_PROD - Modified 03/06/2008  
PDF File ID: 2221176  
Report generated: 11/14/2011 15:11

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Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-01**  
 Client ID: **MW18GW3035-102411**  
 Matrix: **Water**  
 Workgroup Number: **WG380629**  
 Collect Date: **10/24/2011 14:25**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **10/31/2011 17:18**  
 Cal Date: **10/23/2011 22:04**  
 Run Date: **10/31/2011 17:18**  
 File ID: **10M91017**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 115         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 103         | 80     | 120   |      |       |
| Toluene-d8             | 92.1        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 92.3        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).



Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-02**  
 Client ID: **BMWG1828-102411**  
 Matrix: **Water**  
 Workgroup Number: **WG380629**  
 Collect Date: **10/24/2011 15:10**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **10/31/2011 17:50**  
 Cal Date: **10/23/2011 22:04**  
 Run Date: **10/31/2011 17:50**  
 File ID: **10M91018**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 115         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 105         | 80     | 120   |      |       |
| Toluene-d8             | 93.6        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 92.6        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-03**  
 Client ID: **MW16GW1020-102411**  
 Matrix: **Water**  
 Workgroup Number: **WG380729**  
 Collect Date: **10/24/2011 15:40**  
 Sample Tag: **DL01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **10000**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **11/01/2011 18:44**  
 Cal Date: **10/23/2011 22:04**  
 Run Date: **11/01/2011 18:44**  
 File ID: **10M91053**

| Analyte                | CAS. Number | Result | Qual  | RL     | MDL  |
|------------------------|-------------|--------|-------|--------|------|
| Bromomethane           | 74-83-9     |        | U     | 100000 | 5000 |
| Chloroform             | 67-66-3     |        | U     | 50000  | 1250 |
| Chloromethane          | 74-87-3     |        | U     | 100000 | 5000 |
| Methylene chloride     | 75-09-2     |        | U     | 50000  | 2500 |
| Trichloroethene        | 79-01-6     |        | U     | 50000  | 2500 |
| Trichlorofluoromethane | 75-69-4     | 273000 |       | 100000 | 2500 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual   |      |
| Dibromofluoromethane   | 110         | 86     | 118   |        |      |
| 1,2-Dichloroethane-d4  | 99.2        | 80     | 120   |        |      |
| Toluene-d8             | 92.8        | 88     | 110   |        |      |
| 4-Bromofluorobenzene   | 92.2        | 86     | 115   |        |      |

U Not detected at or above the reporting limit (RL).

Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-03**  
 Client ID: **MW16GW1020-102411**  
 Matrix: **Water**  
 Workgroup Number: **WG380629**  
 Collect Date: **10/24/2011 15:40**  
 Sample Tag: **DL02**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **1000**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **10/31/2011 20:02**  
 Cal Date: **10/23/2011 22:04**  
 Run Date: **10/31/2011 20:02**  
 File ID: **10M91022**

| Analyte                | CAS. Number | Result | Qual  | RL    | MDL |
|------------------------|-------------|--------|-------|-------|-----|
| Bromomethane           | 74-83-9     |        | U     | 10000 | 500 |
| Chloroform             | 67-66-3     |        | U     | 5000  | 125 |
| Chloromethane          | 74-87-3     |        | U     | 10000 | 500 |
| Methylene chloride     | 75-09-2     |        | U     | 5000  | 250 |
| Trichloroethene        | 79-01-6     |        | U     | 5000  | 250 |
| Trichlorofluoromethane | 75-69-4     | 309000 | E     | 10000 | 250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual  |     |
| Dibromofluoromethane   | 111         | 86     | 118   |       |     |
| 1,2-Dichloroethane-d4  | 98.5        | 80     | 120   |       |     |
| Toluene-d8             | 93.5        | 88     | 110   |       |     |
| 4-Bromofluorobenzene   | 93.1        | 86     | 115   |       |     |

E Semiquantitative result (out of instrument calibration range)

U Not detected at or above the reporting limit (RL).



Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-04**  
 Client ID: **MW07GW2030-102411**  
 Matrix: **Water**  
 Workgroup Number: **WG380629**  
 Collect Date: **10/24/2011 16:40**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **10/31/2011 18:23**  
 Cal Date: **10/23/2011 22:04**  
 Run Date: **10/31/2011 18:23**  
 File ID: **10M91019**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 16.3   |       | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 112         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 102         | 80     | 120   |      |       |
| Toluene-d8             | 93.6        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 94.9        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-05**  
 Client ID: **MW07GW2030-102411-MS**  
 Matrix: **Water**  
 Workgroup Number: **WG380629**  
 Collect Date: **10/24/2011 16:40**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **10/31/2011 18:56**  
 Cal Date: **10/23/2011 22:04**  
 Run Date: **10/31/2011 18:56**  
 File ID: **10M91020**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     | 20.8   |       | 10.0 | 0.500 |
| Chloroform             | 67-66-3     | 18.7   |       | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     | 28.8   |       | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     | 20.5   |       | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 21.2   |       | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 31.2   |       | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 102         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 94.4        | 80     | 120   |      |       |
| Toluene-d8             | 92.6        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 93.2        | 86     | 115   |      |       |

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Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-06**  
 Client ID: **MW07GW2030-102411-MSD**  
 Matrix: **Water**  
 Workgroup Number: **WG380629**  
 Collect Date: **10/24/2011 16:40**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **10/31/2011 19:29**  
 Cal Date: **10/23/2011 22:04**  
 Run Date: **10/31/2011 19:29**  
 File ID: **10M91021**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     | 21.9   |       | 10.0 | 0.500 |
| Chloroform             | 67-66-3     | 19.4   |       | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     | 29.5   |       | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     | 21.4   |       | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 21.5   |       | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 31.9   |       | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 104         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 95.1        | 80     | 120   |      |       |
| Toluene-d8             | 94.0        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 92.7        | 86     | 115   |      |       |

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Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-07**  
 Client ID: **MW21GW2434-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380862**  
 Collect Date: **10/25/2011 08:15**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **11/02/2011 16:37**  
 Cal Date: **11/01/2011 14:55**  
 Run Date: **11/02/2011 16:37**  
 File ID: **8M374778**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 109         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 110         | 80     | 120   |      |       |
| Toluene-d8             | 98.6        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 101         | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).



Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-08**  
 Client ID: **MW20GW2333-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380862**  
 Collect Date: **10/25/2011 09:05**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **11/02/2011 17:09**  
 Cal Date: **11/01/2011 14:55**  
 Run Date: **11/02/2011 17:09**  
 File ID: **8M374779**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 103         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 97.9        | 80     | 120   |      |       |
| Toluene-d8             | 96.3        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 100         | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).



Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-09**  
 Client ID: **FD01-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380629**  
 Collect Date: **10/25/2011 00:01**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **10/31/2011 20:34**  
 Cal Date: **10/23/2011 22:04**  
 Run Date: **10/31/2011 20:34**  
 File ID: **10M91023**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 113         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 101         | 80     | 120   |      |       |
| Toluene-d8             | 94.4        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 94.2        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

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Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-10**  
 Client ID: **MW23GW3040-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380862**  
 Collect Date: **10/25/2011 09:45**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **11/02/2011 17:40**  
 Cal Date: **11/01/2011 14:55**  
 Run Date: **11/02/2011 17:40**  
 File ID: **8M374780**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 106         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 102         | 80     | 120   |      |       |
| Toluene-d8             | 103         | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 97.3        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).



Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-11**  
 Client ID: **MW22GW2535-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380862**  
 Collect Date: **10/25/2011 10:25**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **11/02/2011 18:11**  
 Cal Date: **11/01/2011 14:55**  
 Run Date: **11/02/2011 18:11**  
 File ID: **8M374781**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 105         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 109         | 80     | 120   |      |       |
| Toluene-d8             | 101         | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 96.4        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).



Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-12**  
 Client ID: **MW12GW1424-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380862**  
 Collect Date: **10/25/2011 11:00**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **11/02/2011 18:43**  
 Cal Date: **11/01/2011 14:55**  
 Run Date: **11/02/2011 18:43**  
 File ID: **8M374782**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 15.2   |       | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 108         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 114         | 80     | 120   |      |       |
| Toluene-d8             | 93.0        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 101         | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

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Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-13**  
 Client ID: **MW03GW1626-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380862**  
 Collect Date: **10/25/2011 12:40**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **11/02/2011 19:14**  
 Cal Date: **11/01/2011 14:55**  
 Run Date: **11/02/2011 19:14**  
 File ID: **8M374783**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 0.821  | J     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 104         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 103         | 80     | 120   |      |       |
| Toluene-d8             | 98.9        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 98.6        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

J The analyte was positively identified, but the quantitation was below the RL.



Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-14**  
 Client ID: **MW10GW1732-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380862**  
 Collect Date: **10/25/2011 13:15**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **11/02/2011 19:45**  
 Cal Date: **11/01/2011 14:55**  
 Run Date: **11/02/2011 19:45**  
 File ID: **8M374784**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 11.3   |       | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 105         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 102         | 80     | 120   |      |       |
| Toluene-d8             | 99.3        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 106         | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).



Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-15**  
 Client ID: **MW19GW1828-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380862**  
 Collect Date: **10/25/2011 13:45**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **11/02/2011 20:17**  
 Cal Date: **11/01/2011 14:55**  
 Run Date: **11/02/2011 20:17**  
 File ID: **8M374785**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 13.6   |       | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 102         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 99.1        | 80     | 120   |      |       |
| Toluene-d8             | 102         | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 102         | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

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Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-16**  
 Client ID: **MW09GW1424-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380862**  
 Collect Date: **10/25/2011 14:20**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **ADC**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS8**  
 Prep Date: **11/02/2011 20:48**  
 Cal Date: **11/01/2011 14:55**  
 Run Date: **11/02/2011 20:48**  
 File ID: **8M374786**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 33.8   |       | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 3.54   | J     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 103         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 101         | 80     | 120   |      |       |
| Toluene-d8             | 101         | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 108         | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

J The analyte was positively identified, but the quantitation was below the RL.



Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-17**  
 Client ID: **FD02-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380629**  
 Collect Date: **10/25/2011 00:01**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **10/31/2011 21:07**  
 Cal Date: **10/23/2011 22:04**  
 Run Date: **10/31/2011 21:07**  
 File ID: **10M91024**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     | 0.130  | J     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     | 30.1   |       | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     | 4.10   | J     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 114         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 105         | 80     | 120   |      |       |
| Toluene-d8             | 93.1        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 92.8        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

J The analyte was positively identified, but the quantitation was below the RL.



Report Number: **L11100907**Report Date : **November 14, 2011**

Sample Number: **L11100907-18**  
 Client ID: **TRIP BLANK-102511**  
 Matrix: **Water**  
 Workgroup Number: **WG380629**  
 Collect Date: **10/25/2011 00:01**  
 Sample Tag: **01**

PrePrep Method: **NONE**  
 Prep Method: **5030B/5030C/5035**  
 Analytical Method: **8260B**  
 Analyst: **MES**  
 Dilution: **1**  
 Units: **ug/L**

Instrument: **HPMS10**  
 Prep Date: **10/31/2011 16:47**  
 Cal Date: **10/23/2011 22:04**  
 Run Date: **10/31/2011 16:47**  
 File ID: **10M91016**

| Analyte                | CAS. Number | Result | Qual  | RL   | MDL   |
|------------------------|-------------|--------|-------|------|-------|
| Bromomethane           | 74-83-9     |        | U     | 10.0 | 0.500 |
| Chloroform             | 67-66-3     |        | U     | 5.00 | 0.125 |
| Chloromethane          | 74-87-3     |        | U     | 10.0 | 0.500 |
| Methylene chloride     | 75-09-2     |        | U     | 5.00 | 0.250 |
| Trichloroethene        | 79-01-6     |        | U     | 5.00 | 0.250 |
| Trichlorofluoromethane | 75-69-4     |        | U     | 10.0 | 0.250 |
| Surrogate              | % Recovery  | Lower  | Upper | Qual |       |
| Dibromofluoromethane   | 118         | 86     | 118   |      |       |
| 1,2-Dichloroethane-d4  | 104         | 80     | 120   |      |       |
| Toluene-d8             | 93.8        | 88     | 110   |      |       |
| 4-Bromofluorobenzene   | 94.3        | 86     | 115   |      |       |

U Not detected at or above the reporting limit (RL).

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## **2.1.1.2 QC Summary Data**

## Example 8260 Calculations

### 1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

$$RF = [ (Ax) (Cis) ] / [ (Ais) (Cx) ]$$

#### Example

where:

|                                                                           |         |
|---------------------------------------------------------------------------|---------|
| Ax = Area of the characteristic ion for the compound being measured:      | 3399156 |
| Cis = Concentration of the specific internal standard (ug/mL)             | 25      |
| Ais = Area of the characteristic ion of the specific internal standard    | 846471  |
| Cx = Concentration of the compound in the standard being measured (ug/mL) | 100     |

|                                 |               |
|---------------------------------|---------------|
| RF = Calculated Response Factor | <b>1.0039</b> |
|---------------------------------|---------------|

### 2.0 Calculating the concentration ( C ) of a compound in water using the average RF: \*

$$Cx = [ (Ax) (Cis) (Vn)(D)] / [ (Ais) (RF) (Vs) ]$$

#### Example

where:

|                                                                        |                 |
|------------------------------------------------------------------------|-----------------|
| Ax = Area of the characteristic ion for the compound being measured    | <b>3122498</b>  |
| Cis = Concentration of the specific internal standard (ug/L)           | <b>25</b>       |
| D = Dilution factor for sample as a multiplier ( 10x = 10)             | <b>1</b>        |
| Ais = Area of the characteristic ion of the specific internal standard | <b>611048</b>   |
| RF = Average RF from the ICAL                                          | <b>1.004</b>    |
| Vs = Purge volume of sample (mL)                                       | <b>10</b>       |
| Vn = Nominal purge volume of sample (mL) ( 10.0 mL )                   | <b>10</b>       |
| Cx = Concentration of the compound in the sample being measured (ug/L) | <b>127.2428</b> |

### 3.0 Calculating the concentration ( C ) of a compound in soil using the average RF: \*

$$Cx = [ (Ax) (Cis) (Wn)(D)] / [ (Ais) (RF) (Ws) ]$$

#### Example

where:

|                                                                        |                 |
|------------------------------------------------------------------------|-----------------|
| Ax = Area of the characteristic ion for the compound being measured    | <b>3122498</b>  |
| Cis = Concentration of the specific internal standard (ug/L)           | <b>25</b>       |
| D = Dilution factor for sample as a multiplier ( 10x = 10)             | <b>1</b>        |
| Ais = Area of the characteristic ion of the specific internal standard | <b>611048</b>   |
| RF = Average RF from the ICAL                                          | <b>1.004</b>    |
| Ws = Weight of sample purged (g)                                       | <b>5</b>        |
| Wn = Nominal purge weight (g) ( 5.0 g)                                 | <b>5</b>        |
| Cx = Concentration of the compound in the sample being measured (ug/L) | <b>127.2428</b> |

Dry weight correction:

|                        |                 |
|------------------------|-----------------|
| Percent solids (PCT_S) | <b>50</b>       |
| Cd = (Cx) (100)/PCT_S  | <b>254.4856</b> |

\* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

### 4.0 Concentration from Linear Regression

#### Step 1: Retrieve Curve Data From Plot, $y = mx + b$

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

**Step 2: Calculate y from Quantitation Report**

$$y = 86550/593147 = 0.1459$$

**Step 3: Solve for x**

$$x = (y - b)/m = [(0.1459 - (-0.00642))/0.213] = 0.7152$$

**Step 4: Solve for analyte concentration Cx**

$$Cx = Cis (x) = (25.0)(0.7152) = 17.88$$

**Example Spreadsheet Calculation:**

|                                 |                 |
|---------------------------------|-----------------|
| Slope from curve, m:            | <b>0.213</b>    |
| Intercept from curve, b:        | <b>-0.00642</b> |
| Area of analyte, Ax:            | <b>86550</b>    |
| Area of Internal Standard, Ais: | <b>593147</b>   |
| Concentration of IS, Cis        | <b>25.00</b>    |
| Response Ratio:                 | <b>0.145917</b> |
| Amount Ratio:                   | <b>0.715195</b> |
| Concentration:                  | <b>17.87988</b> |
| Units of Internal Standard:     | <b>ug/L</b>     |

**5.0 Concentration from Quadratic Regression****Step 1 - Retrieve Curve Data from Plot,  $y = Ax^2 + Bx + C$** 

Where:

$$Ax^2 + Bx + (C - y) = 0$$

A, B, C = constants from the ICAL quadratic regression

y = Response ratio = Area of analyte/Area of internal standard (IS)

x = Amount ratio = Concentration of analyte/concentration of IS

**Step 2: Calculate y from Quantitation Report**

$$y = Ax/Ais$$

**Step 3: Solve for x using the quadratic formula**

$$Ax^2 + Bx + C - y = 0$$

$$x = \frac{b \pm \sqrt{(b^2 - 4a(c - y))}}{2a} \quad \text{(Two possible solutions)}$$

**Step 4: Solve for analyte concentration Cx**

$$Cx = (Cis)(\text{Amount ratio})$$

**Example Spreadsheet Calculation:**

|                                           |                                   |
|-------------------------------------------|-----------------------------------|
| Value of A from plot:                     | <b>-0.00629</b>                   |
| Value of B from plot:                     | <b>0.511</b>                      |
| Value of C from plot:                     | <b>-0.0276</b>                    |
| Area of unknown from quantitation report: | <b>293821</b>                     |
| Area of IS from quantitation report:      | <b>784848</b>                     |
| Response ratio, y:                        | <b>0.374367</b>                   |
| C - y:                                    | <b>-0.40197</b>                   |
| Root 1 - Computed amount ratio, X1:       | <b>80.44567</b>                   |
| Root 2 - Computed amount ratio, X2:       | <b>0.794396</b> use this solution |
| Concentration of IS, Cis:                 | <b>25.00</b>                      |
| Concentration of analyte, Cx:             | <b>19.86</b> ug/L                 |



## Microbac Laboratories Inc.

## Instrument Run Log

Instrument: HPMS8 Dataset: 020311  
 Analyst1: MES Analyst2: MDA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 624 SOP: MSV10 Rev: 8  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12

Maintenance Log ID: 36350

Internal Standard: STD43472 Surrogate Standard: STD43472  
 CCV: STD43791,STD43627 LCS: STD43592,STD43281 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG355612,WG355674

Comments: 

| Seq. | File ID  | Sample Information                | pH | Mat | Dil | Reference | Date/Time      |
|------|----------|-----------------------------------|----|-----|-----|-----------|----------------|
| 1    | 8M367705 | WG355612-01 50NG BFB STD 8260     | NA | 1   | 1   | STD43280  | 02/03/11 07:59 |
| 2    | 8M367706 | WG355612-02 5ug/L APPIX STD       | NA | 1   | 1   | STD43627  | 02/03/11 08:24 |
| 3    | 8M367707 | WG355612-03 20 ug/L APPIX STD     | NA | 1   | 1   | STD43627  | 02/03/11 08:55 |
| 4    | 8M367708 | WG355612-04 50 ug/L APPIX STD     | NA | 1   | 1   | STD43627  | 02/03/11 09:27 |
| 5    | 8M367709 | WG355612-05 100 ug/L APPIX STD    | NA | 1   | 1   | STD43627  | 02/03/11 09:58 |
| 6    | 8M367710 | WG355612-06 200 ug/L APPIX STD    | NA | 1   | 1   | STD43627  | 02/03/11 10:30 |
| 7    | 8M367711 | WG355612-07 300 ug/L APPIX STD    | NA | 1   | 1   | STD43627  | 02/03/11 11:01 |
| 8    | 8M367712 | WG355612-08 400 ug/L APPIX STD    | NA | 1   | 1   | STD43627  | 02/03/11 11:32 |
| 9    | 8M367713 | WG355612-09 500 ug/L APPIX STD    | NA | 1   | 1   | STD43627  | 02/03/11 12:04 |
| 10   | 8M367714 | RINSE                             | NA | 1   | 1   |           | 02/03/11 12:35 |
| 11   | 8M367715 | WG355612-10 100ug/L ALT SOURCE    | NA | 1   | 1   | STD43281  | 02/03/11 13:06 |
| 12   | 8M367716 | WG355672-01 50NG BFB STD 8260     | NA | 1   | 1   | STD43280  | 02/03/11 13:34 |
| 13   | 8M367717 | WG355672-02 50ug/L WATER STD 8260 | NA | 1   | 1   | STD43791  | 02/03/11 14:00 |
| 14   | 8M367718 | RINSE                             | NA | 1   | 1   |           | 02/03/11 14:31 |
| 15   | 8M367719 | WG355674-01 VBLK0203 BLANK 8260   | NA | 1   | 1   |           | 02/03/11 15:03 |
| 16   | 8M367720 | WG355674-02 20ug/L LCS 8260       | NA | 1   | 1   | STD43592  | 02/03/11 15:34 |
| 17   | 8M367721 | WG355674-03 20ug/L LCSDUP 8260    | NA | 1   | 1   | STD43592  | 02/03/11 16:06 |
| 18   | 8M367722 | RINSE                             | NA | 1   | 1   |           | 02/03/11 16:37 |
| 19   | 8M367723 | WG355674-04 20ug/L PA 8260        | NA | 1   | 1   | STD43592  | 02/03/11 17:08 |
| 20   | 8M367724 | WG355674-05 20ug/L PA 8260        | NA | 1   | 1   | STD43592  | 02/03/11 17:39 |
| 21   | 8M367725 | WG355674-06 20ug/L PA 8260        | NA | 1   | 1   | STD43592  | 02/03/11 18:11 |
| 22   | 8M367726 | WG355674-07 20ug/L PA 8260        | NA | 1   | 1   | STD43592  | 02/03/11 18:42 |
| 23   | 8M367727 | WG355674-08 100ug/L APPIX PA      | NA | 1   | 1   | STD43361  | 02/03/11 19:13 |
| 24   | 8M367728 | WG355674-09 100ug/L APPIX PA      | NA | 1   | 1   | STD43361  | 02/03/11 19:45 |
| 25   | 8M367729 | WG355674-10 100ug/L APPIX PA      | NA | 1   | 1   | STD43361  | 02/03/11 20:16 |
| 26   | 8M367730 | WG355674-11 100ug/L APPIX PA      | NA | 1   | 1   | STD43361  | 02/03/11 20:47 |
| 27   | 8M367731 | RINSE                             | NA | 1   | 1   |           | 02/03/11 21:19 |
| 28   | 8M367732 | L11020081-06 A 826-SPE            | <2 | 1   | 1   |           | 02/03/11 21:50 |
| 29   | 8M367733 | L11020081-05 A 826-SPE            | <2 | 1   | 1   |           | 02/03/11 22:21 |
| 30   | 8M367734 | L11020087-01 A 10X 826-SPE5       | <2 | 1   | 10  |           | 02/03/11 22:53 |
| 31   | 8M367735 | RINSE                             | NA | 1   | 1   |           | 02/03/11 23:24 |
| 32   | 8M367736 | RINSE                             | NA | 1   | 1   |           | 02/03/11 23:55 |
| 33   | 8M367737 | WG355674-12 624 BLANK             | NA | 2   | 1   |           | 02/04/11 00:27 |

Approved: February 07, 2011

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*Tiffany Bailey*

## Microbac Laboratories Inc.

## Instrument Run Log

Instrument: HPMS8 Dataset: 020311  
 Analyst1: MES Analyst2: MDA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 624 SOP: MSV10 Rev: 8  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12  
 Maintenance Log ID: 36350

Internal Standard: STD43472 Surrogate Standard: STD43472  
 CCV: STD43791,STD43627 LCS: STD43592,STD43281 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG355612,WG355674

Comments:

| Seq. | File ID  | Sample Information       | pH | Mat | Dil | Reference | Date/Time      |
|------|----------|--------------------------|----|-----|-----|-----------|----------------|
| 34   | 8M367738 | L11020085-01 A 624-SPE6  | <2 | 2   | 1   |           | 02/04/11 00:58 |
| 35   | 8M367739 | L11020085-02 A 624-SPE8  | <2 | 2   | 1   |           | 02/04/11 01:29 |
| 36   | 8M367740 | L11020085-03 A 624-SPE7  | <2 | 2   | 1   |           | 02/04/11 02:00 |
| 37   | 8M367741 | L11020085-04 A 624-SPE7  | <2 | 2   | 1   |           | 02/04/11 02:31 |
| 38   | 8M367742 | L11020085-05 A 624-SPE7  | <2 | 2   | 1   |           | 02/04/11 03:03 |
| 39   | 8M367743 | L11020085-06 A 624-SPE10 | <2 | 2   | 1   |           | 02/04/11 03:34 |
| 40   | 8M367744 | L11020085-07 A 624-SPE10 | <2 | 2   | 1   |           | 02/04/11 04:05 |
| 41   | 8M367745 | RINSE                    | NA | 1   | 1   |           | 02/04/11 04:37 |
| 42   | 8M367746 | RINSE                    | NA | 1   | 1   |           | 02/04/11 05:08 |
| 43   | 8M367747 | RINSE                    | NA | 1   | 1   |           | 02/04/11 05:39 |

Comments

| Seq.                                            | Rerun | Dil. | Reason                   | Analytes            |
|-------------------------------------------------|-------|------|--------------------------|---------------------|
| 30                                              |       |      |                          |                     |
| File ID:8M367734                                |       |      |                          |                     |
| Too foamy to analyze at a higher concentration. |       |      |                          |                     |
| 38                                              | X     | 50   | Over Calibration Range   | cis-1,2-DCE and TCE |
| File ID:8M367742                                |       |      |                          |                     |
| 39                                              | X     | 1    | Carry-over contamination |                     |
| File ID:8M367743                                |       |      |                          |                     |
| DNR                                             |       |      |                          |                     |

Approved: February 07, 2011

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*Tiffany Bailey*



Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS10 Dataset: 071811  
 Analyst1: MES Analyst2: NA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13  
 Method: 624 SOP: MSV10 Rev: 8  
 Maintenance Log ID: 38261

Internal Standard: STD46402 Surrogate Standard: STD46167  
 CCV: STD46538,STD46496 LCS: STD46567,STD46563 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG370584,WG370594

Comments:

| Seq. | File ID  | Sample Information                 | pH | Mat | Dil | Reference | Date/Time      |
|------|----------|------------------------------------|----|-----|-----|-----------|----------------|
| 1    | 10M89092 | RINSE                              | NA | 1   | 1   |           | 07/18/11 08:36 |
| 2    | 10M89093 | RINSE                              | NA | 1   | 1   |           | 07/18/11 12:14 |
| 3    | 10M89094 | RINSE-APPROX 50PPB GASES           | NA | 1   | 1   |           | 07/18/11 12:45 |
| 4    | 10M89095 | RINSE                              | NA | 1   | 1   |           | 07/18/11 13:17 |
| 5    | 10M89096 | WG370583-01 50NG BFB STD 8260      | NA | 1   | 1   | STD46401  | 07/18/11 13:43 |
| 6    | 10M89097 | WG370583-01 50NG BFB STD 8260      | NA | 1   | 1   | STD46401  | 07/18/11 13:57 |
| 7    | 10M89098 | WG370583-02 50ug/L WATER STD 8260  | NA | 1   | 1   | STD46538  | 07/18/11 14:22 |
| 8    | 10M89099 | WG370584-02 5 ug/L APPIX STD       | NA | 1   | 1   | STD46496  | 07/18/11 14:54 |
| 9    | 10M89100 | WG370584-03 20 ug/L APPIX STD      | NA | 1   | 1   | STD46496  | 07/18/11 15:26 |
| 10   | 10M89101 | WG370584-04 50 ug/L APPIX STD      | NA | 1   | 1   | STD46496  | 07/18/11 15:57 |
| 11   | 10M89102 | WG370584-05 100 ug/L APPIX STD     | NA | 1   | 1   | STD46496  | 07/18/11 16:29 |
| 12   | 10M89103 | WG370584-06 200 ug/L APPIX STD     | NA | 1   | 1   | STD46496  | 07/18/11 17:00 |
| 13   | 10M89104 | WG370584-07 300 ug/L APPIX STD     | NA | 1   | 1   | STD46496  | 07/18/11 17:32 |
| 14   | 10M89105 | WG370584-08 400 ug/L APPIX STD     | NA | 1   | 1   | STD46496  | 07/18/11 18:04 |
| 15   | 10M89106 | WG370584-09 500 ug/L APPIX STD     | NA | 1   | 1   | STD46496  | 07/18/11 18:35 |
| 16   | 10M89107 | RINSE                              | NA | 1   | 1   |           | 07/18/11 19:07 |
| 17   | 10M89108 | WG370584-10 100ug/L APPIX ALT SOUR | NA | 1   | 1   | STD46563  | 07/18/11 19:38 |
| 18   | 10M89109 | WG370594-01 VBLK0718 BALNK 8260    | NA | 1   | 1   |           | 07/18/11 20:10 |
| 19   | 10M89110 | WG370594-02 20ug/L LCS 8260        | NA | 1   | 1   | STD46567  | 07/18/11 20:41 |
| 20   | 10M89111 | WG370594-03 20ug/L LCSDUP 8260     | NA | 1   | 1   | STD46567  | 07/18/11 21:13 |
| 21   | 10M89112 | RINSE                              | NA | 1   | 1   |           | 07/18/11 21:45 |
| 22   | 10M89113 | L11070496-10 A 826-SPE             | <2 | 1   | 1   |           | 07/18/11 22:16 |
| 23   | 10M89114 | L11070496-11 A 826-SPE             | <2 | 1   | 1   |           | 07/18/11 22:48 |
| 24   | 10M89115 | L11070496-12 A 826-SPE             | <2 | 1   | 1   |           | 07/18/11 23:19 |
| 25   | 10M89116 | L11070496-13 A 826-SPE             | <2 | 1   | 1   |           | 07/18/11 23:51 |
| 26   | 10M89117 | L11070496-14 A 826-SPE             | <2 | 1   | 1   |           | 07/19/11 00:23 |
| 27   | 10M89118 | L11070496-15 A 826-SPE             | <2 | 1   | 1   |           | 07/19/11 00:54 |
| 28   | 10M89119 | L11070496-16 A 826-SPE             | <2 | 1   | 1   |           | 07/19/11 01:26 |
| 29   | 10M89120 | CONCENTRATED GASES                 | NA | 1   | 1   |           | 07/19/11 01:57 |
| 30   | 10M89121 | CONCENTRATED GASES                 | NA | 1   | 1   |           | 07/19/11 02:29 |
| 31   | 10M89122 | RINSE                              | NA | 1   | 1   |           | 07/19/11 03:00 |
| 32   | 10M89123 | RINSE                              | NA | 1   | 1   |           | 07/19/11 03:32 |
| 33   | 10M89124 | RINSE                              | NA | 1   | 1   |           | 07/19/11 04:03 |

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS10 Dataset: 071811  
 Analyst1: MES Analyst2: NA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13  
 Method: 624 SOP: MSV10 Rev: 8  
 Maintenance Log ID: 38261

Internal Standard: STD46402 Surrogate Standard: STD46167  
 CCV: STD46538,STD46496 LCS: STD46567,STD46563 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG370584,WG370594

Comments:

**Comments**

| Seq.              | Rerun | Dil. | Reason                   | Analytes                               |
|-------------------|-------|------|--------------------------|----------------------------------------|
| 5                 |       |      |                          |                                        |
| File ID: 10M89096 |       |      |                          |                                        |
| RR, BFB failed.   |       |      |                          |                                        |
| 23                | X     | 10   | Over Calibration Range   | TCE and 1122-TCA                       |
| File ID: 10M89114 |       |      |                          |                                        |
| 24                | X     | 10   | Over Calibration Range   | TCE and 1122-TCA                       |
| File ID: 10M89115 |       |      |                          |                                        |
| 25                | X     | 5    | Over Calibration Range   | 1122-TCA and 14-DCB                    |
| File ID: 10M89116 |       |      |                          |                                        |
| 26                | X     | 1    | Carry-over contamination |                                        |
| File ID: 10M89117 |       |      |                          |                                        |
| DNR               |       |      |                          |                                        |
| 28                | X     | 25   | Over Calibration Range   | trans-1,2-DCE,cis-1,2-DCE,TCE,1122-TCA |
| File ID: 10M89119 |       |      |                          |                                        |

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS10 Dataset: 102311  
 Analyst1: MDA Analyst2: NA  
 Method: 8260B/OVAP SOP: MSV01 Rev: 14/0  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13  
 Method: 624 SOP: MSV10 Rev: 8  
 Maintenance Log ID: 39472

Internal Standard: STD48159 Surrogate Standard: STD48193  
 CCV: STD48191 LCS: STD48185 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG379863; WG379872

Comments:

| File ID  | Sample Information              | pH | Mat | Dil | Reference | Date/Time      |
|----------|---------------------------------|----|-----|-----|-----------|----------------|
| 10M90779 | rinse                           | NA | 1   | 1   |           | 10/23/11 12:11 |
| 10M90780 | rinse                           | NA | 1   | 1   |           | 10/23/11 13:00 |
| 10M90781 | WG379863-01 50ng BFB            | NA | 1   | 1   | STD48025  | 10/23/11 13:22 |
| 10M90782 | WG379863-01 50ng BFB            | NA | 1   | 1   | STD48025  | 10/23/11 13:36 |
| 10M90783 | WG379863-01 50ng BFB            | NA | 1   | 1   | STD48025  | 10/23/11 14:00 |
| 10M90784 | WG379863-01 50ng BFB            | NA | 1   | 1   | STD48025  | 10/23/11 14:23 |
| 10M90785 | WG379863-01 50ng BFB            | NA | 1   | 1   | STD48025  | 10/23/11 14:35 |
| 10M90786 | WG379863-01 50ng BFB            | NA | 1   | 1   | STD48025  | 10/23/11 14:59 |
| 10M90787 | WG379863-02 50ug/L STD 8260     | NA | 1   | 1   | STD48191  | 10/23/11 15:24 |
| 10M90788 | WG379863-03 20ug/L STD 8260     | NA | 1   | 1   | STD48191  | 10/23/11 16:00 |
| 10M90789 | WG379863-04 5ug/L STD 8260      | NA | 1   | 1   | STD48191  | 10/23/11 16:32 |
| 10M90790 | WG379863-05 2ug/L STD 8260      | NA | 1   | 1   | STD48191  | 10/23/11 17:06 |
| 10M90791 | WG379863-06 1ug/L STD 8260      | NA | 1   | 1   | STD48191  | 10/23/11 17:39 |
| 10M90792 | WG379863-07 0.4ug/L STD 8260    | NA | 1   | 1   | STD48191  | 10/23/11 18:12 |
| 10M90793 | WG379863-08 0.3ug/L STD 8260    | NA | 1   | 1   | STD48191  | 10/23/11 18:45 |
| 10M90794 | WG379863-09 100ug/LSTD 8260     | NA | 1   | 1   | STD48191  | 10/23/11 19:18 |
| 10M90795 | WG379863-10 200ug/L CCV 8260    | NA | 1   | 1   | STD48091  | 10/23/11 19:51 |
| 10M90796 | WG379863-11 300ug/L CCV 8260    | NA | 1   | 1   | STD48091  | 10/23/11 20:24 |
| 10M90797 | WG379863-09 100ug/L CCV 8260    | NA | 1   | 1   | STD48091  | 10/23/11 21:00 |
| 10M90798 | RINSE                           | NA | 1   | 1   |           | 10/23/11 21:33 |
| 10M90799 | WG379863-12 10ug/L STD 8260     | NA | 1   | 1   | STD48191  | 10/23/11 22:04 |
| 10M90800 | WG379863-13 20ug/L ICV 8260     | NA | 1   | 1   | STD48185  | 10/23/11 22:36 |
| 10M90801 | WG379863-13 20ug/L ICV 8260     | NA | 1   | 1   | STD48185  | 10/23/11 23:23 |
| 10M90802 | WG379871-01 50ng BFB            | NA | 1   | 1   | STD48025  | 10/23/11 23:55 |
| 10M90803 | WG379871-02 20ug/L CCV 8260     | NA | 1   | 1   | STD48191  | 10/24/11 00:22 |
| 10M90804 | WG379872-01 VBLK1023 BLANK 8260 | NA | 1   | 1   |           | 10/24/11 01:02 |
| 10M90805 | WG379863-13 20ug/L ICV 8260     | NA | 1   | 1   | STD48185  | 10/24/11 01:37 |
| 10M90806 | WG379872-02 20ug/L LCS 8260     | NA | 1   | 1   |           | 10/24/11 02:10 |
| 10M90807 | WG379872-03 20ug/L LCSD 8260    | NA | 1   | 1   |           | 10/24/11 02:42 |
| 10M90808 | L11100677-20 A 826-SPE1         | 7  | 1   | 1   |           | 10/24/11 03:15 |
| 10M90809 | L11100677-19 A 826-SPE1         | 7  | 1   | 1   |           | 10/24/11 03:48 |
| 10M90810 | L11100677-01 A 10X 826-SPE1     | 7  | 1   | 10  |           | 10/24/11 04:21 |
| 10M90811 | L11100677-02 A 5X 826-SPE1      | 7  | 1   | 5   |           | 10/24/11 04:54 |
| 10M90812 | L11100677-03 A 826-SPE1         | 7  | 1   | 1   |           | 10/24/11 05:27 |

Approved: October 31, 2011

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS10 Dataset: 102311  
 Analyst1: MDA Analyst2: NA  
 Method: 8260B/OVAP SOP: MSV01 Rev: 14/0  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13  
 Method: 624 SOP: MSV10 Rev: 8  
 Maintenance Log ID: 39472

Internal Standard: STD48159 Surrogate Standard: STD48193  
 CCV: STD48191 LCS: STD48185 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG379863; WG379872

Comments:

| File ID  | Sample Information             | pH | Mat | Dil | Reference | Date/Time      |
|----------|--------------------------------|----|-----|-----|-----------|----------------|
| 10M90813 | L11100677-04 A 826-SPE1        | 7  | 1   | 1   |           | 10/24/11 06:00 |
| 10M90814 | L11100677-05 A 826-SPE1        | 7  | 1   | 1   |           | 10/24/11 06:33 |
| 10M90815 | L11100677-06 A 826-SPE1        | 7  | 1   | 1   |           | 10/24/11 07:06 |
| 10M90816 | L11100677-07 A 826-SPE1        | 7  | 1   | 1   |           | 10/24/11 07:39 |
| 10M90817 | L11100677-08 A 826-SPE1        | 7  | 1   | 1   |           | 10/24/11 08:11 |
| 10M90818 | L11100677-09 A 826-SPE1        | 7  | 1   | 1   |           | 10/24/11 08:44 |
| 10M90819 | L11100677-10 A D1 40X 826-SPE1 | 7  | 1   | 40  |           | 10/24/11 09:17 |
| 10M90820 | L11100677-11 A 200X 826-SPE1   | 7  | 1   | 200 |           | 10/24/11 09:50 |
| 10M90821 | L11100677-12 A 5X 826-SPE1     | 7  | 1   | 5   |           | 10/24/11 10:22 |
| 10M90822 | L11100677-17 A 40X 826-SPE1    | 7  | 1   | 40  |           | 10/24/11 10:54 |
| 10M90823 | L11100677-18 A 500X 826-SPE1   | 7  | 1   | 500 |           | 10/24/11 11:26 |
| 10M90824 | L11100677-15 A 826-SPE1        | 7  | 1   | 1   |           | 10/24/11 11:59 |
| 10M90825 | RINSE                          | NA | 1   | 1   |           | 10/24/11 12:31 |
| 10M90826 | RINSE                          | NA | 1   | 1   |           | 10/24/11 13:20 |

Comments

| Seq.              | Rerun | Dil. | Reason                    | Analytes |
|-------------------|-------|------|---------------------------|----------|
| 3                 | X     |      |                           |          |
| File ID: 10M90781 |       |      |                           |          |
| Tune failed, DNR. |       |      |                           |          |
| 4                 | X     |      |                           |          |
| File ID: 10M90782 |       |      |                           |          |
| Tune failed, DNR. |       |      |                           |          |
| 5                 | X     |      |                           |          |
| File ID: 10M90783 |       |      |                           |          |
| Tune failed, DNR. |       |      |                           |          |
| 6                 | X     |      |                           |          |
| File ID: 10M90784 |       |      |                           |          |
| Tune failed, DNR. |       |      |                           |          |
| 7                 | X     |      |                           |          |
| File ID: 10M90785 |       |      |                           |          |
| Tune failed, DNR. |       |      |                           |          |
| 17                |       |      | Internal standard failure |          |
| File ID: 10M90795 |       |      |                           |          |
| DNR.              |       |      |                           |          |

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS10 Dataset: 102311  
 Analyst1: MDA Analyst2: NA  
 Method: 8260B/OVAP SOP: MSV01 Rev: 14/0  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13  
 Method: 624 SOP: MSV10 Rev: 8  
 Maintenance Log ID: 39472

Internal Standard: STD48159 Surrogate Standard: STD48193  
 CCV: STD48191 LCS: STD48185 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG379863; WG379872

Comments:

**Comments**

| Seq.                       | Rerun | Dil. | Reason                    | Analytes        |
|----------------------------|-------|------|---------------------------|-----------------|
| 18                         |       |      | Internal standard failure |                 |
| File ID: 10M90796          |       |      |                           |                 |
| DNR.                       |       |      |                           |                 |
| 19                         |       |      | Internal standard failure |                 |
| File ID: 10M90797          |       |      |                           |                 |
| DNR.                       |       |      |                           |                 |
| 22                         | X     |      |                           |                 |
| File ID: 10M90800          |       |      |                           |                 |
| dnr rr made incorrectly    |       |      |                           |                 |
| 23                         |       |      |                           |                 |
| File ID: 10M90801          |       |      |                           |                 |
| dnr rr made incorrectly    |       |      |                           |                 |
| 32                         | X     | 200  | Over Calibration Range    | TCE             |
| File ID: 10M90810          |       |      |                           |                 |
| 33                         | X     | 100  | Over Calibration Range    | TCE             |
| File ID: 10M90811          |       |      |                           |                 |
| 34                         | X     | 1    |                           |                 |
| File ID: 10M90812          |       |      |                           |                 |
| RR to confirm TCE          |       |      |                           |                 |
| 35                         | X     | 1    | Carry-over contamination  |                 |
| File ID: 10M90813          |       |      |                           |                 |
| DNR                        |       |      |                           |                 |
| 36                         | X     | 5    | Over Calibration Range    | cis-1,2-DCE     |
| File ID: 10M90814          |       |      |                           |                 |
| 38                         | X     | 1    |                           |                 |
| File ID: 10M90816          |       |      |                           |                 |
| RR to confirm cis-1,2-DCE. |       |      |                           |                 |
| 41                         | X     | 10   | Analyzed too dilute       |                 |
| File ID: 10M90819          |       |      |                           |                 |
| 42                         | X     | 2000 | Over Calibration Range    | 1,1-DCE and TCE |
| File ID: 10M90820          |       |      |                           |                 |

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS10 Dataset: 102311  
 Analyst1: MDA Analyst2: NA  
 Method: 8260B/OVAP SOP: MSV01 Rev: 14/0  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13  
 Method: 624 SOP: MSV10 Rev: 8  
 Maintenance Log ID: 39472

Internal Standard: STD48159 Surrogate Standard: STD48193  
 CCV: STD48191 LCS: STD48185 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG379863; WG379872

Comments:

**Comments**

| Seq.              | Rerun | Dil. | Reason                 | Analytes        |
|-------------------|-------|------|------------------------|-----------------|
| 43                | X     | 25   | Over Calibration Range | 1,1-DCE and TCE |
| File ID: 10M90821 |       |      |                        |                 |
| 44                | X     | 1000 | Over Calibration Range | TCE             |
| File ID: 10M90822 |       |      |                        |                 |
| 45                | X     | 5000 | Over Calibration Range | TCE             |
| File ID: 10M90823 |       |      |                        |                 |
| 46                | X     | 1    | Missed Tune            |                 |
| File ID: 10M90824 |       |      |                        |                 |

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS10 Dataset: 103111  
 Analyst1: MES Analyst2: NA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 624 SOP: MSV10 Rev: 8  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13  
 Maintenance Log ID: 39494

Internal Standard: STD48159 Surrogate Standard: STD48425  
 CCV: STD48351 LCS: STD48329 MS/MSD: STD48329  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG380629

Comments:

| File ID  | Sample Information                | pH | Mat | Dil  | Reference | Date/Time      |
|----------|-----------------------------------|----|-----|------|-----------|----------------|
| 10M91005 | WG380628-01 50NG BFB STD 8260     | NA | 1   | 1    | STD48025  | 10/31/11 10:10 |
| 10M91006 | WG380628-02 50ug/L WATER STD 8260 | NA | 1   | 1    | STD48302  | 10/31/11 10:36 |
| 10M91007 | WG380628-02 50ug/L WATER STD 8260 | NA | 1   | 1    | STD48302  | 10/31/11 11:08 |
| 10M91008 | WG380628-01 50NG BFB STD 8260     | NA | 1   | 1    | STD48025  | 10/31/11 12:33 |
| 10M91009 | WG380628-02 50ug/L WATER STD 8260 | NA | 1   | 1    | STD48351  | 10/31/11 12:57 |
| 10M91010 | WG380628-02 50ug/L WATER STD 8260 | NA | 1   | 1    | STD48351  | 10/31/11 13:31 |
| 10M91011 | WG380000-01 100ug/L APPIX STD     | NA | 1   | 1    | STD40000  | 10/31/11 14:02 |
| 10M91012 | WG380629-01 VBLK1031 BLANK 8260   | NA | 1   | 1    |           | 10/31/11 14:36 |
| 10M91013 | WG380629-02 20ug/L LCS 8260       | NA | 1   | 1    | STD48329  | 10/31/11 15:09 |
| 10M91014 | L11100896-07 B D1 5X 826-SPE1     | <2 | 1   | 5    |           | 10/31/11 15:42 |
| 10M91015 | L11100896-17 B 826-SPE1           | <2 | 1   | 1    |           | 10/31/11 16:15 |
| 10M91016 | L11100907-18 A 826-SPE1           | <2 | 1   | 1    |           | 10/31/11 16:47 |
| 10M91017 | L11100907-01 A 826-SPE1           | <2 | 1   | 1    |           | 10/31/11 17:18 |
| 10M91018 | L11100907-02 A 826-SPE1           | <2 | 1   | 1    |           | 10/31/11 17:50 |
| 10M91019 | L11100907-04 A 826-SPE1           | <2 | 1   | 1    |           | 10/31/11 18:23 |
| 10M91020 | L11100907-05 MS A 826-SPE1        | <2 | 1   | 1    | STD48329  | 10/31/11 18:56 |
| 10M91021 | L11100907-06 MSD A 826-SPE1       | <2 | 1   | 1    | STD48329  | 10/31/11 19:29 |
| 10M91022 | L11100907-03 A 1000X 826-SPE1     | <2 | 1   | 1000 |           | 10/31/11 20:02 |
| 10M91023 | L11100907-09 A 826-SPE1           | <2 | 1   | 1    |           | 10/31/11 20:34 |
| 10M91024 | L11100907-17 A 826-SPE1           | <2 | 1   | 1    |           | 10/31/11 21:07 |
| 10M91025 | L11100896-12 A 826-SPE1           | <2 | 1   | 1    |           | 10/31/11 21:39 |
| 10M91026 | L11100896-14 A 826-SPE1           | <2 | 1   | 1    |           | 10/31/11 22:12 |
| 10M91027 | L11100896-15 A 826-SPE1           | <2 | 1   | 1    |           | 10/31/11 22:44 |
| 10M91028 | L11100845-01 B 25X 826-SPE        | <2 | 1   | 25   |           | 10/31/11 23:16 |
| 10M91029 | L11100845-02 B 5X 826-SPE         | <2 | 1   | 5    |           | 10/31/11 23:48 |
| 10M91030 | L11100896-18 A 826-SPE1           | <2 | 1   | 1    |           | 11/01/11 00:20 |
| 10M91031 | RINSE                             | NA | 1   | 1    |           | 11/01/11 00:52 |
| 10M91032 | RINSE                             | NA | 1   | 1    |           | 11/01/11 01:23 |
| 10M91033 | WG380629-06 624 BLANK             | NA | 2   | 1    |           | 11/01/11 01:55 |
| 10M91034 | L11101028-01 A 624-SPE9           | <2 | 2   | 1    |           | 11/01/11 02:27 |
| 10M91035 | RINSE                             | NA | 1   | 1    |           | 11/01/11 02:58 |
| 10M91036 | RINSE                             | NA | 1   | 1    |           | 11/01/11 03:29 |

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS10 Dataset: 103111  
 Analyst1: MES Analyst2: NA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 624 SOP: MSV10 Rev: 8  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13  
 Maintenance Log ID: 39494

Internal Standard: STD48159 Surrogate Standard: STD48425  
 CCV: STD48351 LCS: STD48329 MS/MSD: STD48329  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG380629

Comments:

**Comments**

| Seq.                                                                          | Rerun | Dil.  | Reason                   | Analytes               |
|-------------------------------------------------------------------------------|-------|-------|--------------------------|------------------------|
| 2                                                                             |       |       |                          |                        |
| File ID: 10M91006                                                             |       |       |                          |                        |
| RR vc is high.                                                                |       |       |                          |                        |
| 3                                                                             |       |       |                          |                        |
| File ID: 10M91007                                                             |       |       |                          |                        |
| RR vc is high. Restarting-increased voltage by 20 and changed standard mixes. |       |       |                          |                        |
| 5                                                                             |       |       |                          |                        |
| File ID: 10M91009                                                             |       |       |                          |                        |
| RR, vc is high.                                                               |       |       |                          |                        |
| 11                                                                            | X     | 1     | Carry-over contamination |                        |
| File ID: 10M91015                                                             |       |       |                          |                        |
| DNR-vc Q flag.                                                                |       |       |                          |                        |
| 18                                                                            | X     | 10000 | Over Calibration Range   | trichlorofluoromethane |
| File ID: 10M91022                                                             |       |       |                          |                        |
| 21                                                                            |       |       |                          |                        |
| File ID: 10M91025                                                             |       |       |                          |                        |
| DNR-vc Q flag.                                                                |       |       |                          |                        |
| 24                                                                            | X     | 500   | Over Calibration Range   | ether and cyclohexane  |
| File ID: 10M91028                                                             |       |       |                          |                        |
| 25                                                                            | X     | 500   | Over Calibration Range   | ether and cyclohexane  |
| File ID: 10M91029                                                             |       |       |                          |                        |

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS8 Dataset: 110111  
 Analyst1: ADC Analyst2: MES  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13  
 Method: 624 SOP: MSV10 Rev: 8  
 Maintenance Log ID: 39533

Internal Standard: STD48017 Surrogate Standard: STD48017  
 CCV: STD48149 LCS: STD48185 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG380829, WG380739

Comments:

| File ID  | Sample Information                 | pH | Mat | Dil | Reference | Date/Time      |
|----------|------------------------------------|----|-----|-----|-----------|----------------|
| 8M374729 | RINSE                              | NA | 2   | 1   |           | 11/01/11 09:17 |
| 8M374730 | WG380739-01 50ng/L BFB STD         | NA | 1   | 1   | STD48025  | 11/01/11 09:48 |
| 8M374731 | WG380739-02 0.3 ug/L STD 8260      | NA | 1   | 1   | STD48245  | 11/01/11 10:13 |
| 8M374732 | WG380739-03 0.4 ug/L STD 8260      | NA | 1   | 1   | STD48245  | 11/01/11 10:44 |
| 8M374733 | WG380739-04 1.0 ug/L STD 8260      | NA | 1   | 1   | STD48245  | 11/01/11 11:16 |
| 8M374734 | WG380739-05 2.0 ug/L STD 8260      | NA | 1   | 1   | STD48245  | 11/01/11 11:47 |
| 8M374735 | WG380739-06 5.0 ug/L STD 8260      | NA | 1   | 1   | STD48245  | 11/01/11 12:18 |
| 8M374736 | WG380739-07 20.0 ug/L STD 8260     | NA | 1   | 1   | STD48245  | 11/01/11 12:50 |
| 8M374737 | WG380739-08 50.0 ug/L STD 8260     | NA | 1   | 1   | STD48245  | 11/01/11 13:21 |
| 8M374738 | WG380739-09 100.0 ug/L STD 8260    | NA | 1   | 1   | STD48245  | 11/01/11 13:52 |
| 8M374739 | WG380739-10 200.0 ug/L STD 8260    | NA | 1   | 1   | STD48245  | 11/01/11 14:23 |
| 8M374740 | WG380739-11 300.0 ug/L STD 8260    | NA | 1   | 1   | STD48245  | 11/01/11 14:55 |
| 8M374741 | RINSE                              | NA | 1   | 1   |           | 11/01/11 15:26 |
| 8M374742 | WG380739-12 50.0 ug/L ALT SRC 8260 | NA | 1   | 1   | STD48329  | 11/01/11 15:57 |
| 8M374743 | RINSE                              | NA | 1   | 1   | STD48329  | 11/01/11 16:33 |
| 8M374744 | WG380829-01 VBLK 1101 8260         | NA | 1   | 1   |           | 11/01/11 17:04 |
| 8M374745 | WG380829-02 20ug/L LCSSTD 8260     | NA | 1   | 1   | STD48329  | 11/01/11 17:36 |
| 8M374746 | WG380829-03 20ug/L LCS DUP 8260    | NA | 1   | 1   | STD48329  | 11/01/11 18:07 |
| 8M374747 | L11100773-01 B 10X 826-TC          | NA | 17  | 10  |           | 11/01/11 18:38 |
| 8M374748 | L11100526-03 B 826-SPE2            | 7  | 1   | 1   |           | 11/01/11 19:10 |
| 8M374749 | L11100906-06 A 826-SPE             | <2 | 1   | 1   |           | 11/01/11 19:41 |
| 8M374750 | L11100906-01 A 826-SPE             | <2 | 1   | 1   |           | 11/01/11 20:12 |
| 8M374751 | L11100906-05 A 826-SPE             | <2 | 1   | 1   |           | 11/01/11 20:43 |
| 8M374752 | L11101024-01 A 826-LOW             | <2 | 1   | 1   |           | 11/01/11 21:14 |
| 8M374753 | L11101024-02 A 826-LOW             | <2 | 1   | 1   |           | 11/01/11 21:46 |
| 8M374754 | WG380015-01 10X 826-TC BLK         | NA | 17  | 10  |           | 11/01/11 22:17 |
| 8M374755 | WG380829-04 624-BLK                | NA | 1   | 1   |           | 11/01/11 22:48 |
| 8M374756 | L11110022-01 A 624-SPE             | 7  | 2   | 1   |           | 11/01/11 23:19 |
| 8M374757 | L11110026-01 A 624                 | 7  | 2   | 1   |           | 11/01/11 23:50 |
| 8M374758 | L11110026-02 A 624                 | 7  | 2   | 1   |           | 11/02/11 00:21 |
| 8M374759 | L11110026-03 A 624                 | 7  | 2   | 1   |           | 11/02/11 00:52 |
| 8M374760 | L11110021-01 A 100X 624-SPE        | 10 | 2   | 100 |           | 11/02/11 01:24 |
| 8M374761 | RINSE                              | NA | 2   | 100 |           | 11/02/11 01:55 |
| 8M374762 | RINSE                              | NA | 2   | 100 |           | 11/02/11 02:26 |

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS8      Dataset: 110111  
 Analyst1: ADC      Analyst2: MES  
 Method: 8260B      SOP: MSV01      Rev: 14  
 Method: 5030B/5030C/5035A      SOP: PAT01      Rev: 13  
 Method: 624      SOP: MSV10      Rev: 8  
 Maintenance Log ID: 39533

Internal Standard: STD48017      Surrogate Standard: STD48017  
 CCV: STD48149      LCS: STD48185      MS/MSD: NA  
 Column 1 ID: RTX502.2      Column 2 ID: NA  
 Workgroups: WG380829, WG380739

Comments:

| File ID  | Sample Information | pH | Mat | Dil | Reference | Date/Time      |
|----------|--------------------|----|-----|-----|-----------|----------------|
| 8M374763 | RINSE              | NA | 2   | 100 |           | 11/02/11 02:58 |

Comments

| Seq.                                      | Rerun | Dil.  | Reason                 | Analytes              |
|-------------------------------------------|-------|-------|------------------------|-----------------------|
| 19                                        |       |       |                        |                       |
| File ID: 8M374748                         |       |       |                        |                       |
| dnr - report run from 10/18/11 on hpms10  |       |       |                        |                       |
| 31                                        | X     | 10000 | Over Calibration Range | cyclohexane and ether |
| File ID: 8M374760                         |       |       |                        |                       |
| L11110021-01 not reporting this analysis. |       |       |                        |                       |

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS10 Dataset: 110111  
 Analyst1: MES Analyst2: NA  
 Method: 8260B SOP: MSV01 Rev: 14  
 Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13

Maintenance Log ID: 39529

Internal Standard: STD48159 Surrogate Standard: STD48193  
 CCV: STD48351 LCS: STD48329 MS/MSD: NA  
 Column 1 ID: RTX502.2 Column 2 ID: NA  
 Workgroups: WG380729

Comments:

| File ID  | Sample Information                | pH | Mat | Dil   | Reference | Date/Time      |
|----------|-----------------------------------|----|-----|-------|-----------|----------------|
| 10M91037 | WG380728-01 50NG BFB STD 8260     | NA | 1   | 1     | STD48025  | 11/01/11 09:52 |
| 10M91038 | WG380728-02 50ug/L WATER STD 8260 | NA | 1   | 1     | STD48351  | 11/01/11 10:19 |
| 10M91039 | WG380728-02 50ug/L WATER STD 8260 | NA | 1   | 1     | STD48351  | 11/01/11 11:01 |
| 10M91040 | RINSE                             | NA | 1   | 1     |           | 11/01/11 11:33 |
| 10M91041 | WG380729-01 VBLK1101 BLANK 8260   | NA | 1   | 1     |           | 11/01/11 12:06 |
| 10M91042 | WG380729-02 20ug/L LCS 8260       | NA | 1   | 1     | STD48329  | 11/01/11 12:39 |
| 10M91043 | WG380729-03 20ug/L LCSDUP 8260    | NA | 1   | 1     | STD48329  | 11/01/11 13:13 |
| 10M91044 | L11101039-01 A 826-SPE            | <2 | 1   | 1     |           | 11/01/11 13:44 |
| 10M91045 | L11100958-01 A 10X 826-TC-SPE     | NA | 17  | 10    |           | 11/01/11 14:17 |
| 10M91046 | L11100819-01 B D1 25X 826-SPE     | <2 | 1   | 25    |           | 11/01/11 14:50 |
| 10M91047 | L11100819-05 B D1 50X 826-SPE     | <2 | 1   | 50    |           | 11/01/11 15:24 |
| 10M91048 | L11100819-06 B D110X 826-SPE      | <2 | 1   | 10    |           | 11/01/11 15:58 |
| 10M91049 | L11100907-03 B 10000X 826-SPE1    | <2 | 1   | 10000 |           | 11/01/11 16:29 |
| 10M91050 | L11100845-01 B D1 500X 826-SPE    | <2 | 1   | 500   |           | 11/01/11 17:03 |
| 10M91051 | L11100845-02 B D1 500X 826-SPE    | <2 | 1   | 500   |           | 11/01/11 17:37 |
| 10M91052 | L11100819-05 B D1 100X 826-SPE    | <2 | 1   | 100   |           | 11/01/11 18:10 |
| 10M91053 | L11100907-03 B D1 10000X 826-SPE1 | <2 | 1   | 10000 |           | 11/01/11 18:44 |
| 10M91054 | WG380682-01 FBLK 10/31 10X        | NA | 17  | 10    |           | 11/01/11 19:17 |

Comments

| Seq.              | Rerun | Dil. | Reason                                                                 | Analytes      |
|-------------------|-------|------|------------------------------------------------------------------------|---------------|
| 2                 |       |      |                                                                        |               |
| File ID: 10M91038 |       |      |                                                                        |               |
|                   |       |      | RR-vc is high.                                                         |               |
| 3                 |       |      |                                                                        |               |
| File ID: 10M91039 |       |      |                                                                        |               |
|                   |       |      | vinyl chloride is still high-running short list samples and dilutions. |               |
| 11                | X     | 100  |                                                                        |               |
| File ID: 10M91047 |       |      |                                                                        |               |
|                   |       |      | DNR                                                                    |               |
| 13                |       |      |                                                                        |               |
| File ID: 10M91049 |       |      |                                                                        |               |
|                   |       |      | DNR-does not confirm 00.                                               |               |
| 15                | X     | 1000 | Over Calibration Range                                                 | diethyl ether |

Approved: November 03, 2011

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS10 Dataset: 110111  
Analyst1: MES Analyst2: NA  
Method: 8260B SOP: MSV01 Rev: 14  
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13

Maintenance Log ID: 39529

Internal Standard: STD48159 Surrogate Standard: STD48193  
CCV: STD48351 LCS: STD48329 MS/MSD: NA  
Column 1 ID: RTX502.2 Column 2 ID: NA  
Workgroups: WG380729

Comments: Comments

| Seq.              | Rerun | Dil. | Reason | Analytes |
|-------------------|-------|------|--------|----------|
| File ID: 10M91051 |       |      |        |          |
|                   |       |      |        |          |

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS8      Dataset: 110211  
 Analyst1: ADC      Analyst2: NA  
 Method: 8260B      SOP: MSV01      Rev: 14  
 Method: 624      SOP: MSV10      Rev: 8  
 Method: 5030C/5035A      SOP: PAT01      Rev: 13  
 Maintenance Log ID: 39650

Internal Standard: STD48017      Surrogate Standard: STD48017  
 CCV: STD48245      LCS: STD48255      MS/MSD: STD48255  
 Column 1 ID: RTX502.2      Column 2 ID: NA  
 Workgroups: WG380862

Comments:

| File ID  | Sample Information                | pH | Mat | Dil  | Reference | Date/Time      |
|----------|-----------------------------------|----|-----|------|-----------|----------------|
| 8M374764 | WG380860-01 50.0 ng/L BFB 8260    | NA | 1   | 1    | STD48329  | 11/02/11 09:15 |
| 8M374765 | WG380860-02 50.0ug/L CCV STD 8260 | NA | 1   | 1    | STD48329  | 11/02/11 09:40 |
| 8M374766 | WG380860-02 50.0ug/L CCV STD 8260 | NA | 1   | 1    | STD48329  | 11/02/11 10:21 |
| 8M374767 | RINSE                             | NA | 1   | 1    |           | 11/02/11 10:52 |
| 8M374768 | WG380862-01 VBLK 1102 8260        | NA | 1   | 1    |           | 11/02/11 11:23 |
| 8M374769 | WG380862-02 20ug/L LCSSTD 8260    | NA | 1   | 1    |           | 11/02/11 11:55 |
| 8M374770 | WG380862-03 20ug/L LCSDUP 8260    | NA | 1   | 1    |           | 11/02/11 12:26 |
| 8M374771 | L11100845-02 B 1000X 826-SPE      | <2 | 1   | 1000 |           | 11/02/11 12:58 |
| 8M374772 | L11100933-03 A 826-SPE            | <2 | 1   | 1    |           | 11/02/11 13:29 |
| 8M374773 | L11101048-19 A 826-SPE            | <2 | 1   | 1    |           | 11/02/11 14:00 |
| 8M374774 | L11101048-01 A 826-SPE            | <2 | 1   | 1    |           | 11/02/11 14:32 |
| 8M374775 | L11101048-02 A 826-SPE            | <2 | 1   | 1    |           | 11/02/11 15:03 |
| 8M374776 | L11101048-03 A 826-SPE            | <2 | 1   | 1    |           | 11/02/11 15:35 |
| 8M374777 | L11101048-04 A 826-SPE            | <2 | 1   | 1    |           | 11/02/11 16:06 |
| 8M374778 | L11100907-07 A 826-SPE1           | <2 | 1   | 1    |           | 11/02/11 16:37 |
| 8M374779 | L11100907-08 A 826-SPE1           | <2 | 1   | 1    |           | 11/02/11 17:09 |
| 8M374780 | L11100907-10 A 826-SPE1           | <2 | 1   | 1    |           | 11/02/11 17:40 |
| 8M374781 | L11100907-11 A 826-SPE1           | <2 | 1   | 1    |           | 11/02/11 18:11 |
| 8M374782 | L11100907-12 A 826-SPE1           | <2 | 1   | 1    |           | 11/02/11 18:43 |
| 8M374783 | L11100907-13 A 826-SPE1           | <2 | 1   | 1    |           | 11/02/11 19:14 |
| 8M374784 | L11100907-14 A 826-SPE1           | <2 | 1   | 1    |           | 11/02/11 19:45 |
| 8M374785 | L11100907-15 A 826-SPE1           | <2 | 1   | 1    |           | 11/02/11 20:17 |
| 8M374786 | L11100907-16 A 826-SPE1           | <2 | 1   | 1    |           | 11/02/11 20:48 |
| 8M374787 | L11100933-01 A 826-SPE            | <2 | 1   | 1    |           | 11/02/11 21:19 |
| 8M374788 | L11100933-02 A 826-SPE            | <2 | 1   | 1    |           | 11/02/11 21:50 |
| 8M374789 | RINSE                             | NA | 1   | 1    |           | 11/02/11 22:22 |

Comments

| Seq.              | Rerun | Dil. | Reason      | Analytes |
|-------------------|-------|------|-------------|----------|
| 24                | X     |      | Missed Tune |          |
| File ID: 8M374787 |       |      |             |          |
| L11100933-01      |       |      |             |          |
| 25                | X     |      | Missed Tune |          |

Approved: November 10, 2011

Page: 1

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Microbac Laboratories Inc.  
Instrument Run Log

Instrument: HPMS8      Dataset: 110211  
Analyst1: ADC      Analyst2: NA  
Method: 8260B      SOP: MSV01      Rev: 14  
Method: 624      SOP: MSV10      Rev: 8  
Method: 5030C/5035A      SOP: PAT01      Rev: 13  
Maintenance Log ID: 39650

Internal Standard: STD48017      Surrogate Standard: STD48017  
CCV: STD48245      LCS: STD48255      MS/MSD: STD48255  
Column 1 ID: RTX502.2      Column 2 ID: NA  
Workgroups: WG380862

Comments:

Comments

| Seq.              | Rerun | Dil. | Reason | Analytes |
|-------------------|-------|------|--------|----------|
| File ID: 8M374788 |       |      |        |          |
| L11100933-02      |       |      |        |          |

Approved: November 10, 2011

Page: 2



## Microbac Laboratories Inc.

## Data Checklist

Date: 03-FEB-2011

Analyst: MES

Analyst: MDA

Method: 8260B/624

Instrument: HPMS8

Curve Workgroup: NA

Runlog ID: 38897

Analytical Workgroups: WG355612, WG355674

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| System Performance Check                                           | NA  |
| BFB                                                                | X   |
| Initial Calibration                                                | X   |
| Average RF                                                         | X   |
| Linear Reg or Higher Order Curve                                   | X   |
| Second Source standard % Difference                                | X   |
| Continuing Calibration /Check Standards                            | X   |
| Project/Client Specific Requirements                               | X   |
| Special Standards                                                  | X   |
| Blanks                                                             | X   |
| TCL's                                                              | X   |
| Surrogates                                                         | X   |
| LCS (Laboratory Control Sample)                                    | X   |
| Recoveries                                                         | X   |
| Surrogates                                                         | X   |
| MS/MSD/Duplicates                                                  | NA  |
| Samples                                                            | X   |
| TCL Hits                                                           | X   |
| Spectra of TCL Hits                                                | X   |
| Surrogates                                                         | X   |
| Internal Standards Criteria                                        | X   |
| Library Searches                                                   | NA  |
| Calculations & Correct Factors                                     | X   |
| Dilutions Run                                                      | NA  |
| Reruns                                                             | X   |
| Manual Integrations                                                | X   |
| Case Narrative                                                     | X   |
| Results Reporting/Data Qualifiers                                  | X   |
| KOBRA Workgroup Data                                               | X   |
| Check for Completeness                                             | X   |
| Primary Reviewer                                                   | MES |
| Secondary Reviewer                                                 | TMB |
|                                                                    |     |
| Check for compliance with method and project specific requirements | X   |
| Check the completeness of reported information                     | X   |
| Check the information for the report narrative                     | X   |
| Check the reasonableness of the results                            | X   |

Primary Reviewer:  
04-FEB-2011

*Mary Schilling*

Secondary Reviewer:  
07-FEB-2011

*Tiffany Bailey*



## Microbac Laboratories Inc.

## Data Checklist

Date: 18-JUL-2011

Analyst: MES

Analyst: NA

Method: 8260/624

Instrument: HPMS10

Curve Workgroup: NA

Runlog ID: 41677

Analytical Workgroups: WG370584, WG370594

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| System Performance Check                                           | NA  |
| BFB                                                                | X   |
| Initial Calibration                                                | X   |
| Average RF                                                         | X   |
| Linear Reg or Higher Order Curve                                   | X   |
| Second Source standard % Difference                                | X   |
| Continuing Calibration /Check Standards                            | X   |
| Project/Client Specific Requirements                               | X   |
| Special Standards                                                  | X   |
| Blanks                                                             | X   |
| TCL's                                                              | X   |
| Surrogates                                                         | X   |
| LCS (Laboratory Control Sample)                                    | X   |
| Recoveries                                                         | X   |
| Surrogates                                                         | X   |
| MS/MSD/Duplicates                                                  | NA  |
| Samples                                                            | X   |
| TCL Hits                                                           | X   |
| Spectra of TCL Hits                                                | X   |
| Surrogates                                                         | X   |
| Internal Standards Criteria                                        | X   |
| Library Searches                                                   | NA  |
| Calculations & Correct Factors                                     | X   |
| Dilutions Run                                                      | NA  |
| Reruns                                                             | X   |
| Manual Integrations                                                | X   |
| Case Narrative                                                     | X   |
| Results Reporting/Data Qualifiers                                  | X   |
| KOBRA Workgroup Data                                               | X   |
| Check for Completeness                                             | X   |
| Primary Reviewer                                                   | MES |
| Secondary Reviewer                                                 | MDA |
|                                                                    |     |
| Check for compliance with method and project specific requirements | X   |
| Check the completeness of reported information                     | X   |
| Check the information for the report narrative                     | X   |
| Check the reasonableness of the results                            | X   |

Primary Reviewer:  
19-JUL-2011

*Mary Schilling*

Secondary Reviewer:  
19-JUL-2011

*Michael*



## Microbac Laboratories Inc.

## Data Checklist

Date: 23-OCT-2011

Analyst: MDA

Analyst: NA

Method: 8260B/624

Instrument: HPMS10

Curve Workgroup: NA

Runlog ID: 43482

Analytical Workgroups: WG379863; WG379872

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| System Performance Check                                           | NA  |
| BFB                                                                | X   |
| Initial Calibration                                                | X   |
| Average RF                                                         | X   |
| Linear Reg or Higher Order Curve                                   | X   |
| Second Source standard % Difference                                | X   |
| Continuing Calibration /Check Standards                            | X   |
| Project/Client Specific Requirements                               | X   |
| Special Standards                                                  | X   |
| Blanks                                                             | X   |
| TCL's                                                              | X   |
| Surrogates                                                         | X   |
| LCS (Laboratory Control Sample)                                    | X   |
| Recoveries                                                         | X   |
| Surrogates                                                         | X   |
| MS/MSD/Duplicates                                                  | NA  |
| Samples                                                            | X   |
| TCL Hits                                                           | X   |
| Spectra of TCL Hits                                                | X   |
| Surrogates                                                         | X   |
| Internal Standards Criteria                                        | X   |
| Library Searches                                                   | NA  |
| Calculations & Correct Factors                                     | X   |
| Dilutions Run                                                      | NA  |
| Reruns                                                             | X   |
| Manual Integrations                                                | NA  |
| Case Narrative                                                     | X   |
| Results Reporting/Data Qualifiers                                  | X   |
| KOBRA Workgroup Data                                               | X   |
| Check for Completeness                                             | X   |
| Primary Reviewer                                                   | TMB |
| Secondary Reviewer                                                 | MDA |
|                                                                    |     |
| Check for compliance with method and project specific requirements | X   |
| Check the completeness of reported information                     | X   |
| Check the information for the report narrative                     | X   |
| Check the reasonableness of the results                            | X   |

Primary Reviewer:  
28-OCT-2011



Secondary Reviewer:  
31-OCT-2011




## Microbac Laboratories Inc.

## Data Checklist

Date: 31-OCT-2011

Analyst: MES

Analyst: NA

Method: 8260/624

Instrument: HPMS10

Curve Workgroup: NA

Runlog ID: 43515

Analytical Workgroups: WG380629

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| System Performance Check                                           | NA  |
| BFB                                                                | X   |
| Initial Calibration                                                | X   |
| Average RF                                                         | X   |
| Linear Reg or Higher Order Curve                                   | X   |
| Second Source standard % Difference                                | X   |
| Continuing Calibration /Check Standards                            | X   |
| Project/Client Specific Requirements                               | X   |
| Special Standards                                                  | NA  |
| Blanks                                                             | X   |
| TCL's                                                              | X   |
| Surrogates                                                         | X   |
| LCS (Laboratory Control Sample)                                    | X   |
| Recoveries                                                         | X   |
| Surrogates                                                         | X   |
| MS/MSD/Duplicates                                                  | X   |
| Samples                                                            | X   |
| TCL Hits                                                           | X   |
| Spectra of TCL Hits                                                | X   |
| Surrogates                                                         | X   |
| Internal Standards Criteria                                        | X   |
| Library Searches                                                   | X   |
| Calculations & Correct Factors                                     | X   |
| Dilutions Run                                                      | X   |
| Reruns                                                             | X   |
| Manual Integrations                                                | NA  |
| Case Narrative                                                     | X   |
| Results Reporting/Data Qualifiers                                  | X   |
| KOBRA Workgroup Data                                               | X   |
| Check for Completeness                                             | X   |
| Primary Reviewer                                                   | MES |
| Secondary Reviewer                                                 | MDA |
|                                                                    |     |
| Check for compliance with method and project specific requirements | X   |
| Check the completeness of reported information                     | X   |
| Check the information for the report narrative                     | X   |
| Check the reasonableness of the results                            | X   |

Primary Reviewer:  
04-NOV-2011

*Mary Schilling*

Secondary Reviewer:  
07-NOV-2011

*Michael*

CHECKLIST1 - Modified 03/05/2008

Generated: NOV-07-2011 13:04:55





## Microbac Laboratories Inc.

## Data Checklist

Date: 01-NOV-2011

Analyst: ADC

Analyst: NA

Method: 8260

Instrument: HPMS8

Curve Workgroup: WG380739

Runlog ID: 43568

Analytical Workgroups: WG380829

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| System Performance Check                                           | NA  |
| BFB                                                                | X   |
| Initial Calibration                                                | X   |
| Average RF                                                         | X   |
| Linear Reg or Higher Order Curve                                   | X   |
| Second Source standard % Difference                                | X   |
| Continuing Calibration /Check Standards                            | X   |
| Project/Client Specific Requirements                               | X   |
| Special Standards                                                  | NA  |
| Blanks                                                             | X   |
| TCL's                                                              | X   |
| Surrogates                                                         | X   |
| LCS (Laboratory Control Sample)                                    | X   |
| Recoveries                                                         | X   |
| Surrogates                                                         | X   |
| MS/MSD/Duplicates                                                  | NA  |
| Samples                                                            | X   |
| TCL Hits                                                           | X   |
| Spectra of TCL Hits                                                | X   |
| Surrogates                                                         | X   |
| Internal Standards Criteria                                        | X   |
| Library Searches                                                   | NA  |
| Calculations & Correct Factors                                     | X   |
| Dilutions Run                                                      | X   |
| Reruns                                                             | NA  |
| Manual Integrations                                                | NA  |
| Case Narrative                                                     | X   |
| Results Reporting/Data Qualifiers                                  | X   |
| KOBRA Workgroup Data                                               | X   |
| Check for Completeness                                             | X   |
| Primary Reviewer                                                   | ADC |
| Secondary Reviewer                                                 | MDA |
|                                                                    |     |
| Check for compliance with method and project specific requirements | X   |
| Check the completeness of reported information                     | X   |
| Check the information for the report narrative                     | X   |
| Check the reasonableness of the results                            | X   |

Primary Reviewer:  
10-NOV-2011



Secondary Reviewer:  
10-NOV-2011



CHECKLIST1 - Modified 03/05/2008

Generated: NOV-10-2011 10:59:49



## Microbac Laboratories Inc.

## Data Checklist

Date: 01-NOV-2011

Analyst: MES

Analyst: NA

Method: 8260

Instrument: HPMS10

Curve Workgroup: NA

Runlog ID: 43564

Analytical Workgroups: WG380729

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| System Performance Check                                           | NA  |
| BFB                                                                | X   |
| Initial Calibration                                                | X   |
| Average RF                                                         | X   |
| Linear Reg or Higher Order Curve                                   | X   |
| Second Source standard % Difference                                | X   |
| Continuing Calibration /Check Standards                            | X   |
| Project/Client Specific Requirements                               | X   |
| Special Standards                                                  | NA  |
| Blanks                                                             | X   |
| TCL's                                                              | X   |
| Surrogates                                                         | X   |
| LCS (Laboratory Control Sample)                                    | X   |
| Recoveries                                                         | X   |
| Surrogates                                                         | X   |
| MS/MSD/Duplicates                                                  | NA  |
| Samples                                                            | X   |
| TCL Hits                                                           | X   |
| Spectra of TCL Hits                                                | X   |
| Surrogates                                                         | X   |
| Internal Standards Criteria                                        | X   |
| Library Searches                                                   | NA  |
| Calculations & Correct Factors                                     | X   |
| Dilutions Run                                                      | X   |
| Reruns                                                             | X   |
| Manual Integrations                                                | NA  |
| Case Narrative                                                     | X   |
| Results Reporting/Data Qualifiers                                  | X   |
| KOBRA Workgroup Data                                               | X   |
| Check for Completeness                                             | X   |
| Primary Reviewer                                                   | MES |
| Secondary Reviewer                                                 | MDA |
|                                                                    |     |
| Check for compliance with method and project specific requirements | X   |
| Check the completeness of reported information                     | X   |
| Check the information for the report narrative                     | X   |
| Check the reasonableness of the results                            | X   |

Primary Reviewer:  
03-NOV-2011

*Mary Schilling*

Secondary Reviewer:  
03-NOV-2011

*Michael*

CHECKLIST1 - Modified 03/05/2008

Generated: NOV-03-2011 14:12:17



Microbac Laboratories Inc.  
HOLDING TIMES  
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B

AAB#: WG380629

Login Number: L11100907

| Client ID             | ID | Date Collected | TCLP Date | Time Held | Max Hold | Q | Extract Date | Time Held | Max Hold | Q | Run Date | Time Held | Max Hold | Q |
|-----------------------|----|----------------|-----------|-----------|----------|---|--------------|-----------|----------|---|----------|-----------|----------|---|
| MW18GW3035-102411     | 01 | 10/24/11       |           |           |          |   |              |           | 14       |   | 10/31/11 | 7.1       | 14       |   |
| BMWGW1828-102411      | 02 | 10/24/11       |           |           |          |   |              |           | 14       |   | 10/31/11 | 7.1       | 14       |   |
| MW16GW1020-102411     | 03 | 10/24/11       |           |           |          |   |              |           | 14       |   | 10/31/11 | 7.2       | 14       |   |
| MW07GW2030-102411     | 04 | 10/24/11       |           |           |          |   |              |           | 14       |   | 10/31/11 | 7.1       | 14       |   |
| MW07GW2030-102411-MS  | 05 | 10/24/11       |           |           |          |   |              |           | 14       |   | 10/31/11 | 7.1       | 14       |   |
| MW07GW2030-102411-MSD | 06 | 10/24/11       |           |           |          |   |              |           | 14       |   | 10/31/11 | 7.1       | 14       |   |
| FD01-102511           | 09 | 10/25/11       |           |           |          |   |              |           | 14       |   | 10/31/11 | 6.9       | 14       |   |
| FD02-102511           | 17 | 10/25/11       |           |           |          |   |              |           | 14       |   | 10/31/11 | 6.9       | 14       |   |
| TRIP BLANK-102511     | 18 | 10/25/11       |           |           |          |   |              |           | 14       |   | 10/31/11 | 6.7       | 14       |   |

\* = SEE PROJECT QAPP REQUIREMENTS

HOLD\_TIMES - Modified 03/06/2008  
PDF File ID: 2220837  
Report generated 11/14/2011 13:16



Microbac Laboratories Inc.  
HOLDING TIMES  
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B

AAB#: WG380729

Login Number: L11100907

| Client ID         | ID | Date Collected | TCLP Date | Time Held | Max Hold | Q | Extract Date | Time Held | Max Hold | Q | Run Date | Time Held | Max Hold | Q |
|-------------------|----|----------------|-----------|-----------|----------|---|--------------|-----------|----------|---|----------|-----------|----------|---|
| MW16GW1020-102411 | 03 | 10/24/11       |           |           |          |   |              |           | 14       |   | 11/01/11 | 8.1       | 14       |   |

\* = SEE PROJECT QAPP REQUIREMENTS

HOLD\_TIMES - Modified 03/06/2008  
PDF File ID: 2220837  
Report generated 11/14/2011 13:16



Microbac Laboratories Inc.  
HOLDING TIMES  
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B

AAB#: WG380862

Login Number: L11100907

| Client ID         | ID | Date Collected | TCLP Date | Time Held | Max Hold | Q | Extract Date | Time Held | Max Hold | Q | Run Date | Time Held | Max Hold | Q |
|-------------------|----|----------------|-----------|-----------|----------|---|--------------|-----------|----------|---|----------|-----------|----------|---|
| MW21GW2434-102511 | 07 | 10/25/11       |           |           |          |   |              |           | 14       |   | 11/02/11 | 8.3       | 14       |   |
| MW20GW2333-102511 | 08 | 10/25/11       |           |           |          |   |              |           | 14       |   | 11/02/11 | 8.3       | 14       |   |
| MW23GW3040-102511 | 10 | 10/25/11       |           |           |          |   |              |           | 14       |   | 11/02/11 | 8.3       | 14       |   |
| MW22GW2535-102511 | 11 | 10/25/11       |           |           |          |   |              |           | 14       |   | 11/02/11 | 8.3       | 14       |   |
| MW12GW1424-102511 | 12 | 10/25/11       |           |           |          |   |              |           | 14       |   | 11/02/11 | 8.3       | 14       |   |
| MW03GW1626-102511 | 13 | 10/25/11       |           |           |          |   |              |           | 14       |   | 11/02/11 | 8.3       | 14       |   |
| MW10GW1732-102511 | 14 | 10/25/11       |           |           |          |   |              |           | 14       |   | 11/02/11 | 8.3       | 14       |   |
| MW19GW1828-102511 | 15 | 10/25/11       |           |           |          |   |              |           | 14       |   | 11/02/11 | 8.3       | 14       |   |
| MW09GW1424-102511 | 16 | 10/25/11       |           |           |          |   |              |           | 14       |   | 11/02/11 | 8.3       | 14       |   |

\* = SEE PROJECT QAPP REQUIREMENTS

HOLD\_TIMES - Modified 03/06/2008  
PDF File ID: 2220837  
Report generated 11/14/2011 13:16



Microbac Laboratories Inc.  
SURROGATE STANDARDS

Login Number: L11100907  
Instrument Id: HPMS10  
Workgroup (AAB#): WG380629

Method: 8260  
CAL ID: HPMS10 - 23-OCT-11  
Matrix: Water

| Sample Number | Dilution | Tag  | 1    | 2   | 3    | 4    |
|---------------|----------|------|------|-----|------|------|
| L11100907-01  | 1.00     | 01   | 103  | 115 | 92.3 | 92.1 |
| L11100907-02  | 1.00     | 01   | 105  | 115 | 92.6 | 93.6 |
| L11100907-03  | 1000     | DL02 | 98.5 | 111 | 93.1 | 93.5 |
| L11100907-04  | 1.00     | 01   | 102  | 112 | 94.9 | 93.6 |
| L11100907-05  | 1.00     | 01   | 94.4 | 102 | 93.2 | 92.6 |
| L11100907-06  | 1.00     | 01   | 95.1 | 104 | 92.7 | 94.0 |
| L11100907-09  | 1.00     | 01   | 101  | 113 | 94.2 | 94.4 |
| L11100907-17  | 1.00     | 01   | 105  | 114 | 92.8 | 93.1 |
| L11100907-18  | 1.00     | 01   | 104  | 118 | 94.3 | 93.8 |
| WG380629-01   | 1.00     | 01   | 102  | 113 | 93.1 | 93.5 |
| WG380629-02   | 1.00     | 01   | 92.2 | 102 | 91.0 | 96.6 |
| WG380629-06   | 1.00     | 01   | 97.9 | 119 | 90.9 | 92.4 |

| Surrogates                | Surrogate Limits |
|---------------------------|------------------|
| 1 - 1,2-Dichloroethane-d4 | 80 - 120         |
| 2 - Dibromofluoromethane  | 86 - 118         |
| 3 - 4-Bromofluorobenzene  | 86 - 115         |
| 4 - Toluene-d8            | 88 - 110         |

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected



**Microbac Laboratories Inc.  
SURROGATE STANDARDS**

Login Number: L11100907  
Instrument Id: HPMS10  
Workgroup (AAB#): WG380729

Method: 8260  
CAL ID: HPMS10 - 23-OCT-11  
Matrix: Water

| Sample Number | Dilution | Tag  | 1    | 2   | 3    | 4    |
|---------------|----------|------|------|-----|------|------|
| L11100907-03  | 10000    | DL01 | 99.2 | 110 | 92.2 | 92.8 |
| WG380729-01   | 1.00     | 01   | 104  | 114 | 92.4 | 92.6 |
| WG380729-02   | 1.00     | 01   | 91.4 | 101 | 92.0 | 95.2 |
| WG380729-03   | 1.00     | 01   | 91.9 | 102 | 91.6 | 94.2 |

| Surrogates                | Surrogate Limits |   |     |
|---------------------------|------------------|---|-----|
| 1 - 1,2-Dichloroethane-d4 | 80               | - | 120 |
| 2 - Dibromofluoromethane  | 86               | - | 118 |
| 3 - 4-Bromofluorobenzene  | 86               | - | 115 |
| 4 - Toluene-d8            | 88               | - | 110 |

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

SURROGATES - Modified 03/06/2008  
PDF File ID: 2206007  
Report generated: 11/14/2011 13:16





**Microbac Laboratories Inc.**  
**SURROGATE STANDARDS**

Login Number: L11100907  
Instrument Id: HPMS8  
Workgroup (AAB#): WG380862

Method: 8260  
CAL ID: HPMS8 - 01-NOV-11  
Matrix: Water

| Sample Number | Dilution | Tag | 1    | 2   | 3    | 4    |
|---------------|----------|-----|------|-----|------|------|
| L11100907-07  | 1.00     | 01  | 110  | 109 | 101  | 98.6 |
| L11100907-08  | 1.00     | 01  | 97.9 | 103 | 100  | 96.3 |
| L11100907-10  | 1.00     | 01  | 102  | 106 | 97.3 | 103  |
| L11100907-11  | 1.00     | 01  | 109  | 105 | 96.4 | 101  |
| L11100907-12  | 1.00     | 01  | 114  | 108 | 101  | 93.0 |
| L11100907-13  | 1.00     | 01  | 103  | 104 | 98.6 | 98.9 |
| L11100907-14  | 1.00     | 01  | 102  | 105 | 106  | 99.3 |
| L11100907-15  | 1.00     | 01  | 99.1 | 102 | 102  | 102  |
| L11100907-16  | 1.00     | 01  | 101  | 103 | 108  | 101  |
| WG380862-01   | 1.00     | 01  | 91.0 | 101 | 105  | 101  |
| WG380862-02   | 1.00     | 01  | 96.7 | 101 | 101  | 92.1 |
| WG380862-03   | 1.00     | 01  | 97.4 | 104 | 95.5 | 96.0 |

| Surrogates                | Surrogate Limits |
|---------------------------|------------------|
| 1 - 1,2-Dichloroethane-d4 | 80 - 120         |
| 2 - Dibromofluoromethane  | 86 - 118         |
| 3 - 4-Bromofluorobenzene  | 86 - 115         |
| 4 - Toluene-d8            | 88 - 110         |

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

SURROGATES - Modified 03/06/2008  
PDF File ID: 2206007  
Report generated: 11/14/2011 13:16



## METHOD BLANK SUMMARY

Login Number: L11100907  
 Blank File ID: 10M91012  
 Prep Date: 10/31/11 14:36  
 Analyzed Date: 10/31/11 14:36  
 Analyst: MES

Work Group: WG380629  
 Blank Sample ID: WG380629-01  
 Instrument ID: HPMS10  
 Method: 8260B

This Method Blank Applies To The Following Samples:

| Client ID             | Lab Sample ID | Lab File ID | Time Analyzed  | TAG  |
|-----------------------|---------------|-------------|----------------|------|
| LCS                   | WG380629-02   | 10M91013    | 10/31/11 15:09 | 01   |
| TRIP BLANK-102511     | L11100907-18  | 10M91016    | 10/31/11 16:47 | 01   |
| MW18GW3035-102411     | L11100907-01  | 10M91017    | 10/31/11 17:18 | 01   |
| BMWGW1828-102411      | L11100907-02  | 10M91018    | 10/31/11 17:50 | 01   |
| MW07GW2030-102411     | L11100907-04  | 10M91019    | 10/31/11 18:23 | 01   |
| MW07GW2030-102411-MS  | L11100907-05  | 10M91020    | 10/31/11 18:56 | 01   |
| MW07GW2030-102411-MSD | L11100907-06  | 10M91021    | 10/31/11 19:29 | 01   |
| MW16GW1020-102411     | L11100907-03  | 10M91022    | 10/31/11 20:02 | DL02 |
| FD01-102511           | L11100907-09  | 10M91023    | 10/31/11 20:34 | 01   |
| FD02-102511           | L11100907-17  | 10M91024    | 10/31/11 21:07 | 01   |

Report Name: BLANK\_SUMMARY  
 PDF File ID: 2220838  
 Report generated 11/14/2011 13:16



## METHOD BLANK SUMMARY

Login Number: L11100907  
Blank File ID: 10M91041  
Prep Date: 11/01/11 12:06  
Analyzed Date: 11/01/11 12:06  
Analyst: MES

Work Group: WG380729  
Blank Sample ID: WG380729-01  
Instrument ID: HPMS10  
Method: 8260B

This Method Blank Applies To The Following Samples:

| Client ID         | Lab Sample ID | Lab File ID | Time Analyzed  | TAG  |
|-------------------|---------------|-------------|----------------|------|
| LCS               | WG380729-02   | 10M91042    | 11/01/11 12:39 | 01   |
| LCS2              | WG380729-03   | 10M91043    | 11/01/11 13:13 | 01   |
| MW16GW1020-102411 | L11100907-03  | 10M91053    | 11/01/11 18:44 | DL01 |

Report Name: BLANK\_SUMMARY  
PDF File ID: 2220838  
Report generated 11/14/2011 13:16



## METHOD BLANK SUMMARY

Login Number: L11100907  
 Blank File ID: 8M374768  
 Prep Date: 11/02/11 11:23  
 Analyzed Date: 11/02/11 11:23  
 Analyst: ADC

Work Group: WG380862  
 Blank Sample ID: WG380862-01  
 Instrument ID: HPMS8  
 Method: 8260B

This Method Blank Applies To The Following Samples:

| Client ID         | Lab Sample ID | Lab File ID | Time Analyzed  | TAG |
|-------------------|---------------|-------------|----------------|-----|
| LCS               | WG380862-02   | 8M374769    | 11/02/11 11:55 | 01  |
| LCS2              | WG380862-03   | 8M374770    | 11/02/11 12:26 | 01  |
| MW21GW2434-102511 | L11100907-07  | 8M374778    | 11/02/11 16:37 | 01  |
| MW20GW2333-102511 | L11100907-08  | 8M374779    | 11/02/11 17:09 | 01  |
| MW23GW3040-102511 | L11100907-10  | 8M374780    | 11/02/11 17:40 | 01  |
| MW22GW2535-102511 | L11100907-11  | 8M374781    | 11/02/11 18:11 | 01  |
| MW12GW1424-102511 | L11100907-12  | 8M374782    | 11/02/11 18:43 | 01  |
| MW03GW1626-102511 | L11100907-13  | 8M374783    | 11/02/11 19:14 | 01  |
| MW10GW1732-102511 | L11100907-14  | 8M374784    | 11/02/11 19:45 | 01  |
| MW19GW1828-102511 | L11100907-15  | 8M374785    | 11/02/11 20:17 | 01  |
| MW09GW1424-102511 | L11100907-16  | 8M374786    | 11/02/11 20:48 | 01  |

Report Name: BLANK\_SUMMARY  
 PDF File ID: 2220838  
 Report generated 11/14/2011 13:16



## METHOD BLANK REPORT

Login Number: L11100907      Prep Date: 10/31/11 14:36      Sample ID: WG380629-01  
 Instrument ID: HPMS10      Run Date: 10/31/11 14:36      Prep Method: 5030B/5030C/503  
 File ID: 10M91012      Analyst: MES      Method: 8260B  
 Workgroup (AAB#): WG380629      Matrix: Water      Units: ug/L  
 Contract #: \_\_\_\_\_      Cal ID: HPMS10 - 23-OCT-11

| Analytes               | MDL   | RL   | Concentration | Dilution | Qualifier |
|------------------------|-------|------|---------------|----------|-----------|
| Bromomethane           | 0.500 | 10.0 | 0.500         | 1        | U         |
| Chloroform             | 0.125 | 5.00 | 0.125         | 1        | U         |
| Chloromethane          | 0.500 | 10.0 | 0.500         | 1        | U         |
| Methylene chloride     | 0.250 | 5.00 | 0.250         | 1        | U         |
| Trichloroethene        | 0.250 | 5.00 | 0.250         | 1        | U         |
| Trichlorofluoromethane | 0.250 | 10.0 | 0.250         | 1        | U         |

| Surrogates            | % Recovery | Surrogate Limits | Qualifier |
|-----------------------|------------|------------------|-----------|
| Dibromofluoromethane  | 113        | 86 - 118         | PASS      |
| 1,2-Dichloroethane-d4 | 102        | 80 - 120         | PASS      |
| Toluene-d8            | 93.5       | 88 - 110         | PASS      |
| 4-Bromofluorobenzene  | 93.1       | 86 - 115         | PASS      |

MDL      Method Detection Limit

RL      Reporting/Practical Quantitation Limit

ND      Analyte Not detected at or above reporting limit

\*      |Analyte concentration| > RL

Report Name: BLANK

PDF ID: 2220839

14-NOV-2011 13:16



## METHOD BLANK REPORT

Login Number: L11100907      Prep Date: 11/01/11 12:06      Sample ID: WG380729-01  
 Instrument ID: HPMS10      Run Date: 11/01/11 12:06      Prep Method: 5030B/5030C/503  
 File ID: 10M91041      Analyst: MES      Method: 8260B  
 Workgroup (AAB#): WG380729      Matrix: Water      Units: ug/L  
 Contract #: \_\_\_\_\_      Cal ID: HPMS10 - 23-OCT-11

| Analytes               | MDL   | RL   | Concentration | Dilution | Qualifier |
|------------------------|-------|------|---------------|----------|-----------|
| Bromomethane           | 0.500 | 10.0 | 0.500         | 1        | U         |
| Chloroform             | 0.125 | 5.00 | 0.125         | 1        | U         |
| Chloromethane          | 0.500 | 10.0 | 0.500         | 1        | U         |
| Methylene chloride     | 0.250 | 5.00 | 0.250         | 1        | U         |
| Trichloroethene        | 0.250 | 5.00 | 0.250         | 1        | U         |
| Trichlorofluoromethane | 0.250 | 10.0 | 0.250         | 1        | U         |

| Surrogates            | % Recovery | Surrogate Limits | Qualifier |
|-----------------------|------------|------------------|-----------|
| Dibromofluoromethane  | 114        | 86 - 118         | PASS      |
| 1,2-Dichloroethane-d4 | 104        | 80 - 120         | PASS      |
| Toluene-d8            | 92.6       | 88 - 110         | PASS      |
| 4-Bromofluorobenzene  | 92.4       | 86 - 115         | PASS      |

MDL      Method Detection Limit

RL      Reporting/Practical Quantitation Limit

ND      Analyte Not detected at or above reporting limit

\*      |Analyte concentration| > RL

Report Name: BLANK

PDF ID: 2220839

14-NOV-2011 13:16



## METHOD BLANK REPORT

Login Number: L11100907      Prep Date: 11/02/11 11:23      Sample ID: WG380862-01  
 Instrument ID: HPMS8      Run Date: 11/02/11 11:23      Prep Method: 5030B/5030C/503  
 File ID: 8M374768      Analyst: ADC      Method: 8260B  
 Workgroup (AAB#): WG380862      Matrix: Water      Units: ug/L  
 Contract #: \_\_\_\_\_      Cal ID: HPMS8 - 01-NOV-11

| Analytes               | MDL   | RL   | Concentration | Dilution | Qualifier |
|------------------------|-------|------|---------------|----------|-----------|
| Bromomethane           | 0.500 | 10.0 | 0.500         | 1        | U         |
| Chloroform             | 0.125 | 5.00 | 0.125         | 1        | U         |
| Chloromethane          | 0.500 | 10.0 | 0.500         | 1        | U         |
| Methylene chloride     | 0.250 | 5.00 | 0.250         | 1        | U         |
| Trichloroethene        | 0.250 | 5.00 | 0.250         | 1        | U         |
| Trichlorofluoromethane | 0.250 | 10.0 | 0.250         | 1        | U         |

| Surrogates            | % Recovery | Surrogate Limits | Qualifier |
|-----------------------|------------|------------------|-----------|
| Dibromofluoromethane  | 101        | 86 - 118         | PASS      |
| 1,2-Dichloroethane-d4 | 91.0       | 80 - 120         | PASS      |
| Toluene-d8            | 101        | 88 - 110         | PASS      |
| 4-Bromofluorobenzene  | 105        | 86 - 115         | PASS      |

MDL      Method Detection Limit

RL      Reporting/Practical Quantitation Limit

ND      Analyte Not detected at or above reporting limit

\*      |Analyte concentration| > RL

Report Name: BLANK

PDF ID: 2220839

14-NOV-2011 13:16





Microbac Laboratories Inc.  
LABORATORY CONTROL SAMPLE (LCS)

|                                   |                             |                                     |
|-----------------------------------|-----------------------------|-------------------------------------|
| Login Number: <u>L11100907</u>    | Run Date: <u>10/31/2011</u> | Sample ID: <u>WG380629-02</u>       |
| Instrument ID: <u>HPMS10</u>      | Run Time: <u>15:09</u>      | Prep Method: <u>5030B/5030C/503</u> |
| File ID: <u>10M91013</u>          | Analyst: <u>MES</u>         | Method: <u>8260B</u>                |
| Workgroup (AAB#): <u>WG380629</u> | Matrix: <u>Water</u>        | Units: <u>ug/L</u>                  |
| QC Key: <u>ASHLAND</u>            | Lot#: <u>STD48329</u>       | Cal ID: <u>HPMS10 - 23-OCT-11</u>   |

| Analytes               | Expected | Found | % Rec | LCS Limits |   |     | Q |
|------------------------|----------|-------|-------|------------|---|-----|---|
| Bromomethane           | 20.0     | 21.3  | 106   | 30         | - | 145 |   |
| Chloroform             | 20.0     | 18.3  | 91.7  | 80         | - | 125 |   |
| Chloromethane          | 20.0     | 29.4  | 147   | 40         | - | 125 | * |
| Methylene chloride     | 20.0     | 20.8  | 104   | 80         | - | 123 |   |
| Trichloroethene        | 20.0     | 21.2  | 106   | 80         | - | 122 |   |
| Trichlorofluoromethane | 20.0     | 23.4  | 117   | 62         | - | 151 |   |

| Surrogates            | % Recovery | Surrogate Limits |   |     | Qualifier |
|-----------------------|------------|------------------|---|-----|-----------|
| Dibromofluoromethane  | 102        | 86               | - | 118 | PASS      |
| 1,2-Dichloroethane-d4 | 92.2       | 80               | - | 120 | PASS      |
| Toluene-d8            | 96.6       | 88               | - | 110 | PASS      |
| 4-Bromofluorobenzene  | 91.0       | 86               | - | 115 | PASS      |

\* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008  
PDF File ID: 2207705  
Report generated: 11/04/2011 11:36



**Microbac Laboratories Inc.**  
**LABORATORY CONTROL SAMPLE (LCS)**

Login Number: L11100907      Analyst: MES      Prep Method: 5030B/5030C/503  
Instrument ID: HPMS10      Matrix: Water      Method: 8260B  
Workgroup (AAB#): WG380729      Units: ug/L  
QC Key: ASHLAND      Lot #: STD48329

Sample ID: WG380729-02 LCS      File ID: 10M91042      Run Date: 11/01/2011 12:39  
Sample ID: WG380729-03 LCS2      File ID: 10M91043      Run Date: 11/01/2011 13:13

| Analytes               | LCS   |       |       | LCS2  |       |       | %RPD  | %Rec Limits | RPD Lmt | Q |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------------|---------|---|
|                        | Known | Found | % REC | Known | Found | % REC |       |             |         |   |
| Bromomethane           | 20.0  | 21.0  | 105   | 20.0  | 21.0  | 105   | 0.366 | 30 - 145    | 20      |   |
| Chloroform             | 20.0  | 18.2  | 91.1  | 20.0  | 18.0  | 89.9  | 1.37  | 80 - 125    | 20      |   |
| Chloromethane          | 20.0  | 28.2  | 141   | 20.0  | 28.1  | 140   | 0.378 | 40 - 125    | 20      | * |
| Methylene chloride     | 20.0  | 20.3  | 102   | 20.0  | 19.8  | 98.8  | 2.76  | 80 - 123    | 20      |   |
| Trichloroethene        | 20.0  | 21.6  | 108   | 20.0  | 20.7  | 103   | 4.55  | 80 - 122    | 20      |   |
| Trichlorofluoromethane | 20.0  | 23.2  | 116   | 20.0  | 21.7  | 108   | 6.81  | 62 - 151    | 20      |   |

| Surogates             | LCS        | LCS2       | Surrogate Limits | Qualifier |
|-----------------------|------------|------------|------------------|-----------|
|                       | % Recovery | % Recovery |                  |           |
| 1,2-Dichloroethane-d4 | 91.4       | 91.9       | 80 - 120         | PASS      |
| Dibromofluoromethane  | 101        | 102        | 86 - 118         | PASS      |
| 4-Bromofluorobenzene  | 92.0       | 91.6       | 86 - 115         | PASS      |
| Toluene-d8            | 95.2       | 94.2       | 88 - 110         | PASS      |

\* EXCEEDS %REC LIMIT

# EXCEEDS RPD LIMIT

LCS\_LCS2 - Modified 03/06/2008  
PDF File ID: 2206003  
Report generated: 11/14/2011 13:16



**Microbac Laboratories Inc.**  
**LABORATORY CONTROL SAMPLE (LCS)**

Login Number: L11100907      Analyst: ADC      Prep Method: 5030B/5030C/503  
Instrument ID: HPMS8      Matrix: Water      Method: 8260B  
Workgroup (AAB#): WG380862      Units: ug/L  
QC Key: ASHLAND      Lot #: STD48329

Sample ID: WG380862-02 LCS      File ID: 8M374769      Run Date: 11/02/2011 11:55  
Sample ID: WG380862-03 LCS2      File ID: 8M374770      Run Date: 11/02/2011 12:26

| Analytes               | LCS   |       |       | LCS2  |       |       | %RPD | %Rec Limits | RPD Lmt | Q |
|------------------------|-------|-------|-------|-------|-------|-------|------|-------------|---------|---|
|                        | Known | Found | % REC | Known | Found | % REC |      |             |         |   |
| Bromomethane           | 20.0  | 22.0  | 110   | 20.0  | 20.9  | 105   | 5.08 | 30 - 145    | 20      |   |
| Chloroform             | 20.0  | 21.7  | 109   | 20.0  | 20.9  | 104   | 3.98 | 80 - 125    | 20      |   |
| Chloromethane          | 20.0  | 17.0  | 85.1  | 20.0  | 16.4  | 81.9  | 3.90 | 40 - 125    | 20      |   |
| Methylene chloride     | 20.0  | 21.7  | 108   | 20.0  | 18.6  | 92.9  | 15.4 | 80 - 123    | 20      |   |
| Trichloroethene        | 20.0  | 23.3  | 117   | 20.0  | 22.4  | 112   | 4.21 | 80 - 122    | 20      |   |
| Trichlorofluoromethane | 20.0  | 21.3  | 107   | 20.0  | 19.8  | 98.8  | 7.66 | 62 - 151    | 20      |   |

| Surogates             | LCS        | LCS2       | Surrogate Limits | Qualifier |
|-----------------------|------------|------------|------------------|-----------|
|                       | % Recovery | % Recovery |                  |           |
| 1,2-Dichloroethane-d4 | 96.7       | 97.4       | 80 - 120         | PASS      |
| Dibromofluoromethane  | 101        | 104        | 86 - 118         | PASS      |
| 4-Bromofluorobenzene  | 101        | 95.5       | 86 - 115         | PASS      |
| Toluene-d8            | 92.1       | 96.0       | 88 - 110         | PASS      |

\* EXCEEDS %REC LIMIT

# EXCEEDS RPD LIMIT

LCS\_LCS2 - Modified 03/06/2008  
PDF File ID: 2206003  
Report generated: 11/14/2011 13:16



## MS/MSD REPORT

Loginnum: L11100907      Cal ID: HPMS10- 23-OCT-11  
 Instrument ID: HPMS10      Contract #: \_\_\_\_\_  
 Parent ID: L11100907-04      File ID: 10M91019      Dil: 1  
 Sample ID: L11100907-05 MS      File ID: 10M91020      Dil: 1  
 Sample ID: L11100907-06 MSD      File ID: 10M91021      Dil: 1

Worknum: WG380629  
 Prep Method: 5030B/5030C/  
 Method: 5035A  
 Matrix: 8260B  
 Units: Water  
       ug/L

| Analyte                | Parent | MS<br>Spiked | MS<br>Found | MS<br>%Rec | MSD<br>Spiked | MSD<br>Found | MSD<br>%Rec | %RPD | %Rec<br>Limits | RPD<br>Limit | Q |
|------------------------|--------|--------------|-------------|------------|---------------|--------------|-------------|------|----------------|--------------|---|
| Bromomethane           | U      | 20.0         | 20.8        | 104        | 20.0          | 21.9         | 109         | 5.05 | 30 - 145       | 20           |   |
| Chloroform             | U      | 20.0         | 18.7        | 93.7       | 20.0          | 19.4         | 97.2        | 3.63 | 80 - 125       | 20           |   |
| Chloromethane          | U      | 20.0         | 28.8        | 144        | 20.0          | 29.5         | 148         | 2.65 | 40 - 125       | 20           | * |
| Methylene chloride     | U      | 20.0         | 20.5        | 103        | 20.0          | 21.4         | 107         | 4.10 | 80 - 123       | 20           |   |
| Trichloroethene        | U      | 20.0         | 21.2        | 106        | 20.0          | 21.5         | 108         | 1.72 | 80 - 122       | 20           |   |
| Trichlorofluoromethane | 16.3   | 20.0         | 31.2        | 74.3       | 20.0          | 31.9         | 77.8        | 2.25 | 62 - 151       | 20           |   |

\* FAILS %REC LIMIT

# FAILS RPD LIMIT



Microbac Laboratories Inc.  
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11100907

Instrument: HPMS10

Analyst: MDA

Workgroup: WG379863

Tune ID: WG379863-01

Run Date: 10/23/2011

Run Time: 14:59

File ID: 10M90786

Cal ID: HPMS10 - 23-OCT-11

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50.0        | 95.0         | 15.0         | 40.0         | 24.2      | 2022    | PASS             |
| 75.0        | 95.0         | 30.0         | 60.0         | 54.0      | 4507    | PASS             |
| 95.0        | 95.0         | 100          | 100          | 100       | 8354    | PASS             |
| 96.0        | 95.0         | 5.00         | 9.00         | 7.13      | 596     | PASS             |
| 173         | 174          | 0            | 2.00         | 0         | 0       | PASS             |
| 174         | 95.0         | 50.0         | 100          | 82.1      | 6862    | PASS             |
| 175         | 174          | 5.00         | 9.00         | 6.16      | 423     | PASS             |
| 176         | 174          | 95.0         | 101          | 95.7      | 6567    | PASS             |
| 177         | 176          | 5.00         | 9.00         | 5.44      | 357     | PASS             |

This check relates to the following samples:

| Lab ID      | Client ID | Tag | Date Analyzed    | Q |
|-------------|-----------|-----|------------------|---|
| WG379863-02 | STD       | 01  | 10/23/2011 15:24 |   |
| WG379863-03 | STD-CCV   | 01  | 10/23/2011 16:00 |   |
| WG379863-04 | STD       | 01  | 10/23/2011 16:32 |   |
| WG379863-05 | STD       | 01  | 10/23/2011 17:06 |   |
| WG379863-06 | STD       | 01  | 10/23/2011 17:39 |   |
| WG379863-07 | STD       | 01  | 10/23/2011 18:12 |   |
| WG379863-08 | STD       | 01  | 10/23/2011 18:45 |   |
| WG379863-09 | STD       | 01  | 10/23/2011 19:18 |   |
| WG379863-12 | STD       | 01  | 10/23/2011 22:04 |   |

\* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008  
PDF File ID: 2220842  
Report generated 11/14/2011 13:16



Microbac Laboratories Inc.  
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11100907

Instrument: HPMS10

Analyst: MDA

Workgroup: WG379871

Tune ID: WG379871-01

Run Date: 10/23/2011

Run Time: 23:55

File ID: 10M90802

Cal ID: HPMS10 - 23-OCT-11

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50.0        | 95.0         | 15.0         | 40.0         | 23.3      | 3182    | PASS             |
| 75.0        | 95.0         | 30.0         | 60.0         | 50.0      | 6836    | PASS             |
| 95.0        | 95.0         | 100          | 100          | 100       | 13682   | PASS             |
| 96.0        | 95.0         | 5.00         | 9.00         | 6.93      | 948     | PASS             |
| 173         | 174          | 0            | 2.00         | 0         | 0       | PASS             |
| 174         | 95.0         | 50.0         | 100          | 82.9      | 11338   | PASS             |
| 175         | 174          | 5.00         | 9.00         | 7.46      | 846     | PASS             |
| 176         | 174          | 95.0         | 101          | 97.3      | 11034   | PASS             |
| 177         | 176          | 5.00         | 9.00         | 6.95      | 767     | PASS             |

This check relates to the following samples:

| Lab ID      | Client ID | Tag | Date Analyzed    | Q |
|-------------|-----------|-----|------------------|---|
| WG379863-13 | SSCV      | 01  | 10/24/2011 01:37 |   |

\* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008  
PDF File ID: 2220842  
Report generated 11/14/2011 13:16



Microbac Laboratories Inc.  
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11100907  
Instrument: HPMS10  
Analyst: MES  
Workgroup: WG380628

Tune ID: WG380628-01  
Run Date: 10/31/2011  
Run Time: 12:33  
File ID: 10M91008

Cal ID: HPMS10 - 23-OCT-11

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50.0        | 95.0         | 15.0         | 40.0         | 22.9      | 4768    | PASS             |
| 75.0        | 95.0         | 30.0         | 60.0         | 51.5      | 10735   | PASS             |
| 95.0        | 95.0         | 100          | 100          | 100       | 20854   | PASS             |
| 96.0        | 95.0         | 5.00         | 9.00         | 7.38      | 1540    | PASS             |
| 173         | 174          | 0            | 2.00         | 0         | 0       | PASS             |
| 174         | 95.0         | 50.0         | 100          | 87.7      | 18299   | PASS             |
| 175         | 174          | 5.00         | 9.00         | 7.36      | 1347    | PASS             |
| 176         | 174          | 95.0         | 101          | 95.3      | 17442   | PASS             |
| 177         | 176          | 5.00         | 9.00         | 6.64      | 1158    | PASS             |

This check relates to the following samples:

| Lab ID       | Client ID             | Tag  | Date Analyzed    | Q |
|--------------|-----------------------|------|------------------|---|
| WG380628-02  | CCV                   | 01   | 10/31/2011 13:31 |   |
| WG380629-01  | BLANK                 | 01   | 10/31/2011 14:36 |   |
| WG380629-02  | LCS                   | 01   | 10/31/2011 15:09 |   |
| L11100907-18 | TRIP BLANK-102511     | 01   | 10/31/2011 16:47 |   |
| L11100907-01 | MW18GW3035-102411     | 01   | 10/31/2011 17:18 |   |
| L11100907-02 | BMWGW1828-102411      | 01   | 10/31/2011 17:50 |   |
| L11100907-04 | MW07GW2030-102411     | 01   | 10/31/2011 18:23 |   |
| L11100907-05 | MW07GW2030-102411-MS  | 01   | 10/31/2011 18:56 |   |
| L11100907-06 | MW07GW2030-102411-MSD | 01   | 10/31/2011 19:29 |   |
| L11100907-03 | MW16GW1020-102411     | DL02 | 10/31/2011 20:02 |   |
| L11100907-09 | FD01-102511           | 01   | 10/31/2011 20:34 |   |
| L11100907-17 | FD02-102511           | 01   | 10/31/2011 21:07 |   |
| WG380629-06  | BLANK2                | 01   | 11/01/2011 01:55 | * |

\* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008  
PDF File ID: 2220842  
Report generated 11/14/2011 13:16





Microbac Laboratories Inc.  
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11100907

Instrument: HPMS10

Analyst: MES

Workgroup: WG380728

Tune ID: WG380728-01

Run Date: 11/01/2011

Run Time: 09:52

File ID: 10M91037

Cal ID: HPMS10 - 23-OCT-11

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50.0        | 95.0         | 15.0         | 40.0         | 25.1      | 5414    | PASS             |
| 75.0        | 95.0         | 30.0         | 60.0         | 52.2      | 11251   | PASS             |
| 95.0        | 95.0         | 100          | 100          | 100       | 21573   | PASS             |
| 96.0        | 95.0         | 5.00         | 9.00         | 6.46      | 1393    | PASS             |
| 173         | 174          | 0            | 2.00         | 0         | 0       | PASS             |
| 174         | 95.0         | 50.0         | 100          | 83.5      | 18014   | PASS             |
| 175         | 174          | 5.00         | 9.00         | 8.32      | 1499    | PASS             |
| 176         | 174          | 95.0         | 101          | 97.1      | 17499   | PASS             |
| 177         | 176          | 5.00         | 9.00         | 6.79      | 1188    | PASS             |

This check relates to the following samples:

| Lab ID       | Client ID         | Tag  | Date Analyzed    | Q |
|--------------|-------------------|------|------------------|---|
| WG380728-02  | CCV               | 01   | 11/01/2011 11:01 |   |
| WG380729-01  | BLANK             | 01   | 11/01/2011 12:06 |   |
| WG380729-02  | LCS               | 01   | 11/01/2011 12:39 |   |
| WG380729-03  | LCS2              | 01   | 11/01/2011 13:13 |   |
| L11100907-03 | MW16GW1020-102411 | DL01 | 11/01/2011 18:44 |   |

\* Sample past 12 hour tune limit

Microbac Laboratories Inc.  
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L11100907

Instrument: HPMS8

Analyst: ADC

Workgroup: WG380739

Tune ID: WG380739-01

Run Date: 11/01/2011

Run Time: 09:48

File ID: 8M374730

Cal ID: HPMS8-01-NOV-11

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50.0        | 95.0         | 15.0         | 40.0         | 26.6      | 9227    | PASS             |
| 75.0        | 95.0         | 30.0         | 60.0         | 47.7      | 16560   | PASS             |
| 95.0        | 95.0         | 100          | 100          | 100       | 34730   | PASS             |
| 96.0        | 95.0         | 5.00         | 9.00         | 7.00      | 2431    | PASS             |
| 173         | 174          | 0            | 2.00         | 0.437     | 111     | PASS             |
| 174         | 95.0         | 50.0         | 100          | 73.1      | 25394   | PASS             |
| 175         | 174          | 5.00         | 9.00         | 7.37      | 1872    | PASS             |
| 176         | 174          | 95.0         | 101          | 96.5      | 24499   | PASS             |
| 177         | 176          | 5.00         | 9.00         | 5.56      | 1363    | PASS             |

This check relates to the following samples:

| Lab ID      | Client ID | Tag | Date Analyzed    | Q |
|-------------|-----------|-----|------------------|---|
| WG380739-02 | STD       | 01  | 11/01/2011 10:13 |   |
| WG380739-03 | STD       | 01  | 11/01/2011 10:44 |   |
| WG380739-04 | STD       | 01  | 11/01/2011 11:16 |   |
| WG380739-05 | STD       | 01  | 11/01/2011 11:47 |   |
| WG380739-06 | STD       | 01  | 11/01/2011 12:18 |   |
| WG380739-07 | STD       | 01  | 11/01/2011 12:50 |   |
| WG380739-08 | STD-CCV   | 01  | 11/01/2011 13:21 |   |
| WG380739-09 | STD       | 01  | 11/01/2011 13:52 |   |
| WG380739-10 | STD       | 01  | 11/01/2011 14:23 |   |
| WG380739-11 | STD       | 01  | 11/01/2011 14:55 |   |
| WG380739-12 | SSCV      | 01  | 11/01/2011 15:57 |   |

\* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008  
PDF File ID: 2220842  
Report generated 11/14/2011 13:16



**Microbac Laboratories Inc.  
ORGANIC INSTRUMENT CHECK**

**BFB**

Login Number: L11100907  
Instrument: HPMS8  
Analyst: ADC  
Workgroup: WG380860

Tune ID: WG380860-01  
Run Date: 11/02/2011  
Run Time: 09:15  
File ID: 8M374764

Cal ID: HPMS8-01-NOV-11

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50.0        | 95.0         | 15.0         | 40.0         | 23.0      | 9425    | PASS             |
| 75.0        | 95.0         | 30.0         | 60.0         | 44.4      | 18211   | PASS             |
| 95.0        | 95.0         | 100          | 100          | 100       | 40984   | PASS             |
| 96.0        | 95.0         | 5.00         | 9.00         | 6.10      | 2498    | PASS             |
| 173         | 174          | 0            | 2.00         | 0.424     | 122     | PASS             |
| 174         | 95.0         | 50.0         | 100          | 70.2      | 28759   | PASS             |
| 175         | 174          | 5.00         | 9.00         | 7.31      | 2101    | PASS             |
| 176         | 174          | 95.0         | 101          | 98.0      | 28180   | PASS             |
| 177         | 176          | 5.00         | 9.00         | 6.00      | 1691    | PASS             |

This check relates to the following samples:

| Lab ID       | Client ID         | Tag | Date Analyzed    | Q |
|--------------|-------------------|-----|------------------|---|
| WG380860-02  | CCV               | 01  | 11/02/2011 10:21 |   |
| WG380862-01  | BLANK             | 01  | 11/02/2011 11:23 |   |
| WG380862-02  | LCS               | 01  | 11/02/2011 11:55 |   |
| WG380862-03  | LCS2              | 01  | 11/02/2011 12:26 |   |
| L11100907-07 | MW21GW2434-102511 | 01  | 11/02/2011 16:37 |   |
| L11100907-08 | MW20GW2333-102511 | 01  | 11/02/2011 17:09 |   |
| L11100907-10 | MW23GW3040-102511 | 01  | 11/02/2011 17:40 |   |
| L11100907-11 | MW22GW2535-102511 | 01  | 11/02/2011 18:11 |   |
| L11100907-12 | MW12GW1424-102511 | 01  | 11/02/2011 18:43 |   |
| L11100907-13 | MW03GW1626-102511 | 01  | 11/02/2011 19:14 |   |
| L11100907-14 | MW10GW1732-102511 | 01  | 11/02/2011 19:45 |   |
| L11100907-15 | MW19GW1828-102511 | 01  | 11/02/2011 20:17 |   |
| L11100907-16 | MW09GW1424-102511 | 01  | 11/02/2011 20:48 |   |

\* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008  
PDF File ID: 2220842  
Report generated 11/14/2011 13:16



Calibration Table Report  
Method: A9F00WT.M  
Title: F00/APPIX/BUTADIENE WT SOP: OVL MSV01 07/18/11  
Last Calibration: Tue Jul 19 10:10:52 2011  
Curve:WG370584  
Calibration Files

| Calibration Files      |            |            |            |            |            |            |            |            |       |        |        |           |  |  |
|------------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------|--------|--------|-----------|--|--|
|                        | 5          | 20         | 50         | 100        | 200        | 300        | 400        | 500        |       |        |        |           |  |  |
| Compound               | 10M89099.D | 10M89100.D | 10M89101.D | 10M89102.D | 10M89103.D | 10M89104.D | 10M89105.D | 10M89106.D | Avg   | %RSD   | Linear | Quadratic |  |  |
| Fluorobenzene          | ISTD       |            |            |            |            |            |            |            |       |        |        |           |  |  |
| Acetonitrile           | 0.019      | 0.019      | 0.021      | 0.021      | 0.022      | 0.022      | 0.021      | 0.022      | 0.021 | 4.862  |        |           |  |  |
| 3-Chloro-1-propene     | 0.364      | 0.379      | 0.395      | 0.390      | 0.385      | 0.379      | 0.371      | 0.373      | 0.379 | 2.729  |        |           |  |  |
| 2-Chloro-1,3-butadiene | 0.354      | 0.366      | 0.394      | 0.394      | 0.395      | 0.386      | 0.381      | 0.382      | 0.381 | 3.805  |        |           |  |  |
| Ethyl Acetate          | 0.088      | 0.107      | 0.118      | 0.127      | 0.134      | 0.136      | 0.136      | 0.137      | 0.123 | 14.276 |        |           |  |  |
| Methacrylonitrile      | 0.040      | 0.058      | 0.065      | 0.067      | 0.068      | 0.068      | 0.067      | 0.068      | 0.063 | 15.497 | 1.000  |           |  |  |
| Isobutyl Alcohol       |            |            | 0.013      | 0.012      | 0.012      | 0.013      | 0.012      | 0.012      | 0.012 | 4.052  |        |           |  |  |
| Chlorobenzene-d5       | ISTD       |            |            |            |            |            |            |            |       |        |        |           |  |  |
| 1-Butanol              |            |            | 0.001      | 0.002      | 0.003      | 0.003      | 0.003      | 0.003      | 0.003 | 36.770 | 0.998  |           |  |  |
| Methyl methacrylate    | 0.101      | 0.145      | 0.167      | 0.181      | 0.192      | 0.192      | 0.189      | 0.196      | 0.170 | 19.124 | 0.999  |           |  |  |
| 2-Nitropropane         |            | 0.046      | 0.052      | 0.055      | 0.060      | 0.061      | 0.060      | 0.062      | 0.057 | 10.473 |        |           |  |  |
| 1,4-Dichlorobenzene-d4 | ISTD       |            |            |            |            |            |            |            |       |        |        |           |  |  |
| Cyclohexanone          |            | 0.046      | 0.052      | 0.059      | 0.063      | 0.062      | 0.060      | 0.062      | 0.058 | 11.306 |        |           |  |  |

Tue Jul 19 10:32:49 2011



Calibration Table Report  
Method: 8260BWT.M  
Title: 8260B/624 WT (SOP: OVL MSV01) 10/23/11 HPMS10  
Last Calibration: Fri Oct 28 15:03:21 2011  
Curve: WG379863  
Calibration Files

|                                         |       | 0.3        | 0.4        | 1          | 2          | 5          | 10         | 20         | 50         | 100        |        |         |        |       |
|-----------------------------------------|-------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------|---------|--------|-------|
|                                         |       | 10M90793.D | 10M90792.D | 10M90791.D | 10M90790.D | 10M90789.D | 10M90799.D | 10M90788.D | 10M90787.D | 10M90794.D |        |         |        |       |
| Compound                                |       |            |            |            |            |            |            |            |            |            | Avg    | %RSD    | Linear | Quad  |
| I Fluorobenzene                         | ISTD  |            |            |            |            |            |            |            |            |            |        |         |        |       |
| T Dichlorodifluoromethane               |       |            |            | 0.281      | 0.260      | 0.249      | 0.221      | 0.237      | 0.221      |            | 0.245  | 9.663   |        |       |
| P Chloromethane                         |       |            |            | 0.532      | 0.435      | 0.388      | 0.345      | 0.354      | 0.366      |            | 0.403  | 17.495  | 0.999  |       |
| C Vinyl Chloride                        |       |            |            | 0.378      | 0.344      | 0.306      | 0.280      | 0.278      | 0.249      |            | 0.306  | 15.509  | 0.997  |       |
| T 1,3-Butadiene                         |       |            |            |            | 0.429      | 0.270      | 0.201      | 0.177      | 0.167      | 0.227      | 0.245  | 39.831  |        | 0.999 |
| T Bromomethane                          |       |            |            | 0.270      | 0.247      | 0.220      | 0.211      | 0.181      | 0.163      |            | 0.215  | 18.498  | 0.992  |       |
| T Chloroethane                          |       |            |            | 0.217      | 0.203      | 0.191      | 0.181      | 0.192      | 0.186      |            | 0.195  | 6.655   |        |       |
| T Trichlorofluoromethane                |       |            |            | 0.552      | 0.505      | 0.480      | 0.448      | 0.458      | 0.442      |            | 0.481  | 8.697   |        |       |
| T Diethyl ether                         |       |            |            | 0.181      | 0.173      | 0.177      | 0.174      | 0.165      | 0.159      | 0.195      | 0.175  | 6.654   |        |       |
| T Isoprene                              |       |            |            | 0.315      | 0.346      | 0.332      | 0.360      | 0.373      | 0.367      | 0.390      | 0.355  | 7.226   |        |       |
| T Acrolein                              |       |            |            |            |            |            |            |            |            |            | 0.000  | 0.000   |        |       |
| T 1,1,2-Trichloro-1,2,2-Trifluoroethane |       |            |            | 0.291      | 0.300      | 0.275      | 0.267      | 0.268      | 0.256      | 0.359      | 0.288  | 12.019  |        |       |
| T Acetone                               |       |            |            |            |            |            |            |            |            |            | 0.000  | 0.000   |        |       |
| C 1,1-Dichloroethene                    |       |            |            | 0.280      | 0.285      | 0.254      | 0.235      | 0.244      | 0.245      |            | 0.257  | 7.976   |        |       |
| T Tert-Butyl Alcohol                    |       |            |            |            |            |            |            |            |            |            | 0.000  | 0.000   |        |       |
| T Dimethyl Sulfide                      |       |            |            |            | 0.354      | 0.341      | 0.319      | 0.324      | 0.321      | 0.518      | 0.363  | 21.253  |        | 0.992 |
| T Iodomethane                           |       |            |            |            | 0.205      | 0.235      | 0.182      | 0.323      | 0.334      | 0.620      | 0.317  | 50.877  |        | 0.992 |
| T Methyl acetate                        |       |            |            | 0.264      | 0.221      | 0.211      | 0.222      | 0.192      | 0.173      |            | 0.214  | 14.517  |        |       |
| T Methylene Chloride                    |       |            |            | 0.367      | 0.319      | 0.284      | 0.268      | 0.274      | 0.268      |            | 0.297  | 13.319  |        |       |
| T Carbon Disulfide                      |       |            |            | 0.877      | 0.839      | 0.770      | 0.724      | 0.757      | 0.747      |            | 0.786  | 7.563   |        |       |
| T Acrylonitrile                         |       |            |            | 0.057      | 0.073      | 0.065      | 0.079      | 0.070      | 0.066      |            | 0.068  | 11.231  |        |       |
| T Methyl Tert Butyl Ether               |       |            |            | 0.453      | 0.518      | 0.556      | 0.601      | 0.574      | 0.529      | 0.478      | 0.530  | 9.832   |        |       |
| T trans-1,2-Dichloroethene              |       | 0.293      |            | 0.317      | 0.298      | 0.277      | 0.268      | 0.268      | 0.273      | 0.386      | 0.298  | 13.313  |        |       |
| T n-Hexane                              |       |            |            | 0.307      | 0.316      | 0.292      | 0.361      | 0.358      | 0.359      | 0.394      | 0.341  | 10.721  |        |       |
| T Diisopropyl ether                     |       |            |            | 0.818      | 0.799      | 0.852      | 0.880      | 0.877      | 0.867      | 0.848      | 0.849  | 3.584   |        |       |
| T Vinyl Acetate                         |       |            |            |            |            | 0.181      | 0.245      | 0.201      | 0.180      | 0.219      | 0.205  | 13.293  |        |       |
| P 1,1-Dichloroethane                    |       | 0.652      |            | 0.650      | 0.611      | 0.553      | 0.525      | 0.535      | 0.540      |            | 0.581  | 9.514   |        |       |
| T Ethyl-Tert-Butyl ether                |       |            |            | 0.637      | 0.661      | 0.728      | 0.754      | 0.738      | 0.724      | 0.727      | 0.710  | 6.140   |        |       |
| T 2-Butanone                            |       |            |            |            |            |            |            |            |            |            | 0.000  | 0.000   |        |       |
| T Propionitrile                         |       |            |            |            |            |            |            |            |            |            | 0.000  | 0.000   |        |       |
| T 2,2-Dichloropropane                   |       |            | 0.425      | 0.451      | 0.445      | 0.440      | 0.426      | 0.423      | 0.415      | 0.549      | 0.447  | 9.642   |        |       |
| T cis-1,2-Dichloroethene                |       |            | 0.341      | 0.342      | 0.308      | 0.294      | 0.277      | 0.284      | 0.285      | 0.412      | 0.318  | 14.381  |        |       |
| C Chloroform                            | 0.633 | 0.629      | 0.623      | 0.574      | 0.544      | 0.495      | 0.507      | 0.512      | 0.699      | 0.579      | 0.579  | 12.177  |        |       |
| T 1-Bromopropane                        |       |            |            | 0.042      | 0.062      | 0.061      | 0.059      | 0.058      | 0.060      |            | 0.057  | 12.955  |        |       |
| T Bromochloromethane                    |       |            | 0.137      | 0.168      | 0.148      | 0.144      | 0.133      | 0.132      | 0.134      |            | 0.142  | 9.042   |        |       |
| T Tetrahydrofuran                       |       |            |            | 0.059      | 0.052      | 0.053      | 0.058      | 0.048      | 0.045      | 0.068      | 0.055  | 14.169  |        |       |
| S Dibromofluoromethane                  |       |            |            | 0.327      | 0.314      | 0.291      | 0.306      | 0.295      | 0.246      | 0.437      | 0.317  | 18.608  |        | 0.995 |
| T 1,1,1-Trichloroethane                 |       | 0.399      |            | 0.445      | 0.451      | 0.448      | 0.436      | 0.440      | 0.447      | 0.552      | 0.452  | 9.660   |        |       |
| T Cyclohexane                           |       |            |            | 0.472      | 0.469      | 0.438      | 0.485      | 0.482      | 0.466      | 0.560      | 0.482  | 7.837   |        |       |
| T 1,1-Dichloropropene                   |       |            |            | 0.338      | 0.336      | 0.350      | 0.352      | 0.364      | 0.366      | 0.375      | 0.354  | 4.168   |        |       |
| T Carbon Tetrachloride                  |       | 0.378      |            | 0.405      | 0.408      | 0.413      | 0.406      | 0.416      | 0.423      | 0.469      | 0.415  | 6.193   |        |       |
| T Tert-Amyl-Methyl ether                |       |            |            | 0.48       | 0.468      | 0.499      | 0.527      | 0.506      | 0.496      | 0.453      | 0.4897 | 5.11453 |        |       |
| S 1,2-Dichloroethane-d4                 |       |            |            | 0.316      | 0.321      | 0.302      | 0.318      | 0.293      | 0.234      | 0.383      | 0.3096 | 14.2193 |        |       |
| T Heptane                               |       |            |            |            |            |            |            |            |            |            | 0      | 0       |        |       |
| T 1,2-Dichloroethane                    |       |            | 0.375      | 0.414      | 0.414      | 0.382      | 0.373      | 0.361      | 0.35       | 0.456      | 0.3906 | 8.97726 |        |       |
| T Benzene                               |       |            | 1.132      | 1.04       | 0.994      | 1.015      | 0.98       | 0.995      | 0.999      | 1.1        | 1.0317 | 5.37126 |        |       |
| T Trichloroethene                       |       |            | 0.303      | 0.298      | 0.281      | 0.285      | 0.28       | 0.292      | 0.299      | 0.303      | 0.2926 | 3.23599 |        |       |
| T Methylcyclohexane                     |       |            |            | 0.336      | 0.343      | 0.308      | 0.366      | 0.364      | 0.366      | 0.4        | 0.3546 | 8.20829 |        |       |
| C 1,2-Dichloropropane                   |       |            | 0.276      | 0.275      | 0.278      | 0.281      | 0.278      | 0.283      | 0.277      | 0.302      | 0.2812 | 3.20004 |        |       |
| T Bromodichloromethane                  |       |            | 0.329      | 0.355      | 0.348      | 0.353      | 0.344      | 0.352      | 0.353      | 0.383      | 0.352  | 4.24435 |        |       |
| T 1,4-Dioxane                           |       |            |            |            | 0.001      | 0.001      | 0.002      | 0.001      | 0.001      | 0.003      | 0.0016 | 35.642  |        | 0.991 |
| T Dibromomethane                        |       |            | 0.162      | 0.16       | 0.164      | 0.152      | 0.148      | 0.141      | 0.138      | 0.192      | 0.1573 | 10.8492 |        |       |
| T 2-Chloroethyl Vinyl Ether             |       |            |            | 0.091      | 0.091      | 0.099      | 0.114      | 0.101      | 0.105      | 0.117      | 0.1026 | 10.174  |        |       |
| T 4-Methyl-2-Pentanone                  |       |            |            |            | 0.039      | 0.04       | 0.052      | 0.042      | 0.04       | 0.047      | 0.0433 | 11.4601 |        |       |
| T cis-1,3-Dichloropropene               |       |            | 0.335      | 0.333      | 0.347      | 0.369      | 0.381      | 0.397      | 0.393      | 0.402      | 0.3699 | 7.56633 |        |       |



|   |                             |       |       |       |       |       |       |       |       |        |         |         |
|---|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|---------|
| T | Dimethyl Disulfide          |       |       |       | 0.186 | 0.199 | 0.218 | 0.219 | 0.219 | 0.2083 | 7.146   |         |
| I | Chlorobenzene-d5            | ISTD  |       |       |       |       |       |       |       |        |         |         |
| S | Toluene-d8                  |       | 1.089 | 1.125 | 1.085 | 1.214 | 1.193 | 1.033 | 1.204 | 1.1349 | 6.19995 |         |
| C | Toluene                     | 1.406 | 1.324 | 1.321 | 1.325 | 1.291 | 1.339 | 1.372 | 1.347 | 1.3405 | 2.62341 |         |
| T | Ethyl Methacrylate          |       | 0.24  | 0.278 | 0.263 | 0.275 | 0.253 | 0.228 | 0.219 | 0.2509 | 9.08335 |         |
| T | Paraldehyde                 |       |       | 0.003 | 0.003 | 0.004 | 0.003 | 0.004 | 0.006 | 0.004  | 30.6134 | 0.996   |
| T | trans-1,3-Dichloropropene   |       |       | 0.358 | 0.427 | 0.466 | 0.474 | 0.493 |       | 0.4437 | 12.0319 |         |
| T | 1,1,2-Trichloroethane       | 0.169 | 0.193 | 0.217 | 0.235 | 0.255 | 0.252 | 0.252 |       | 0.2246 | 14.8674 |         |
| T | 2-Hexanone                  |       | 0.148 | 0.135 | 0.118 | 0.144 | 0.111 | 0.105 | 0.138 | 0.1286 | 13.2199 |         |
| T | 1,3-Dichloropropane         | 0.322 | 0.356 | 0.384 | 0.42  | 0.451 | 0.45  | 0.449 |       | 0.4045 | 12.7749 |         |
| T | Tetrachloroethene           | 0.284 | 0.262 | 0.266 | 0.273 | 0.283 | 0.287 | 0.294 | 0.253 | 0.2754 | 5.10628 |         |
| T | Dibromochloromethane        | 0.28  | 0.262 | 0.283 | 0.324 | 0.334 | 0.348 | 0.355 | 0.404 | 0.3238 | 14.5126 |         |
| T | 1,2-Dibromoethane           | 0.183 | 0.199 | 0.203 | 0.234 | 0.256 | 0.254 | 0.258 |       | 0.2267 | 13.7589 |         |
| T | 1-Chlorohexane              | 0.415 | 0.391 | 0.401 | 0.377 | 0.414 | 0.427 | 0.429 | 0.37  | 0.4028 | 5.50667 |         |
| P | Chlorobenzene               | 1.075 | 0.965 | 0.95  | 0.896 | 0.903 | 0.932 | 0.954 | 0.959 | 0.9542 | 5.76012 |         |
| T | 1,1,1,2-Tetrachloroethane   |       | 0.231 | 0.251 | 0.278 | 0.305 | 0.32  | 0.344 |       | 0.2881 | 14.7917 |         |
| C | Ethylbenzene                | 0.509 | 0.489 | 0.489 | 0.486 | 0.488 | 0.494 | 0.51  | 0.534 | 0.4998 | 3.3197  |         |
| T | m-p-Xylene                  | 0.644 | 0.615 | 0.605 | 0.594 | 0.584 | 0.603 | 0.612 | 0.65  | 0.6136 | 3.74851 |         |
| T | o-Xylene                    | 0.637 | 0.589 | 0.583 | 0.578 | 0.563 | 0.585 | 0.584 | 0.621 | 0.5927 | 4.06912 |         |
| T | Styrene                     | 0.96  | 0.96  | 0.945 | 0.954 | 0.923 | 0.975 | 1.004 | 1.151 | 0.984  | 7.26679 |         |
| P | Bromoform                   |       |       | 0.141 | 0.153 | 0.179 | 0.181 | 0.189 |       | 0.1685 | 12.0326 |         |
| T | Isopropylbenzene            | 1.615 | 1.517 | 1.422 | 1.439 | 1.457 | 1.492 | 1.526 | 1.636 | 1.513  | 5.17375 |         |
| I | 1,4-Dichlorobenzene-d4      | ISTD  |       |       |       |       |       |       |       |        |         |         |
| P | 1,1,2,2-Tetrachloroethane   | 0.351 | 0.412 | 0.386 | 0.349 | 0.435 | 0.407 | 0.393 | 0.342 | 0.3843 | 8.90679 |         |
| S | p-Bromofluorobenzene        |       | 0.834 | 0.867 | 0.845 | 0.929 | 0.887 | 0.75  | 0.773 | 0.8406 | 7.45482 |         |
| T | 1,2,3-Trichloropropane      |       | 0.113 | 0.131 | 0.113 | 0.145 | 0.133 | 0.133 | 0.122 | 0.1272 | 9.2207  |         |
| T | trans-1,4-Dichloro-2-Butene |       |       |       | 0.133 | 0.146 | 0.148 | 0.162 | 0.164 | 0.1506 | 8.4802  |         |
| T | n-Propylbenzene             |       | 3.63  | 3.437 | 3.375 | 3.254 | 3.336 | 3.509 | 3.493 | 3.095  | 3.3911  | 4.90326 |
| T | Bromobenzene                | 0.698 | 0.857 | 0.81  | 0.719 | 0.73  | 0.738 | 0.762 | 0.749 | 0.661  | 0.747   | 7.80967 |
| T | 1,3,5-Trimethylbenzene      |       | 2.31  | 2.201 | 2.155 | 2.151 | 2.173 | 2.253 | 2.317 | 2.095  | 2.2069  | 3.60622 |
| T | 2-Chlorotoluene             |       | 2.546 | 2.269 | 2.183 | 2.173 | 2.295 | 2.337 | 2.254 | 1.987  | 2.2555  | 7.04939 |
| T | 4-Chlorotoluene             |       | 2.301 | 1.97  | 1.947 | 1.869 | 1.784 | 1.883 | 1.975 | 1.794  | 1.9405  | 8.4048  |
| T | a-Methylstyrene             |       |       | 1.154 | 1.168 | 1.238 | 1.231 | 1.336 | 1.369 | 1.277  | 1.2534  | 6.4026  |
| T | tert-Butylbenzene           |       |       | 0.483 | 0.457 | 0.482 | 0.517 | 0.528 | 0.561 | 0.505  | 0.5047  | 6.81898 |
| T | 1,2,4-Trimethylbenzene      |       |       | 2.533 | 2.406 | 2.428 | 2.405 | 2.431 | 2.483 | 2.377  | 2.4376  | 2.17819 |
| T | sec-Butylbenzene            |       | 3.231 | 2.968 | 2.82  | 2.779 | 2.931 | 3.048 | 3.168 | 2.86   | 2.9758  | 5.46666 |
| T | p-Isopropyltoluene          |       | 2.47  | 2.475 | 2.354 | 2.35  | 2.428 | 2.514 | 2.601 | 2.416  | 2.451   | 3.41304 |
| T | 1,3-Dichlorobenzene         |       | 1.706 | 1.479 | 1.419 | 1.409 | 1.403 | 1.438 | 1.445 | 1.363  | 1.4578  | 7.25614 |
| T | 1,4-Dichlorobenzene         | 1.592 | 1.745 | 1.524 | 1.504 | 1.411 | 1.438 | 1.468 | 1.448 | 1.437  | 1.5074  | 6.96318 |
| T | n-Butylbenzene              |       | 2.436 | 2.29  | 2.142 | 2.121 | 2.263 | 2.295 | 2.331 | 2.313  | 2.2738  | 4.47678 |
| T | 1,2-Dichlorobenzene         | 1.388 | 1.622 | 1.406 | 1.335 | 1.285 | 1.261 | 1.286 | 1.258 | 1.259  | 1.3443  | 8.77261 |
| T | 1,2-Dibromo-3-Chloropropane |       |       | 0.081 | 0.102 | 0.085 | 0.094 | 0.083 | 0.078 | 0.092  | 0.0878  | 9.64873 |
| T | 1,2,4-Trichlorobenzene      |       | 1.157 | 0.91  | 0.888 | 0.866 | 0.91  | 0.901 | 0.866 | 1.02   | 0.9398  | 10.6588 |
| T | Hexachlorobutadiene         |       | 0.417 | 0.358 | 0.349 | 0.318 | 0.353 | 0.362 | 0.37  | 0.307  | 0.3541  | 9.44429 |
| T | Naphthalene                 |       |       | 1.681 | 1.667 | 1.617 | 1.635 | 1.597 | 1.502 | 2.244  | 1.7062  | 14.318  |
| T | 1,2,3-Trichlorobenzene      | 0.88  | 1.016 | 0.78  | 0.764 | 0.699 | 0.74  | 0.714 | 0.657 | 0.823  | 0.7858  | 13.8694 |

Fri Oct 28 16:48:08 2011



Calibration Table Report  
Method: 8260W.M  
Title: Method 8260B/624 WTR-SOP:OVLMSV01 11/01/11 HPMS 8  
Last Calibration: Tue Nov 01 15:59:08 2011  
Curve: WG380739  
Calibration Files

| Compound                          |            |            |            |            |            |            |            |            |            |            | R^2     |         |
|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------|---------|
|                                   | 0.3        | 0.4        | 1          | 2          | 5          | 20         | 50         | 100        | 200        | 300        | Avg     | %RSD    |
|                                   | 8M374731.D | 8M374732.D | 8M374733.D | 8M374734.D | 8M374735.D | 8M374736.D | 8M374737.D | 8M374738.D | 8M374739.D | 8M374740.D |         |         |
| Fluorobenzene                     | ISTD       |            |            |            |            |            |            |            |            |            |         |         |
| Dichlorodifluoromethane           |            |            | 0.440      | 0.387      | 0.379      | 0.377      | 0.361      | 0.412      | 0.346      |            | 0.386   | 8.130   |
| Chloromethane                     |            |            | 0.453      | 0.274      | 0.277      | 0.273      | 0.249      | 0.299      | 0.280      |            | 0.301   | 22.879  |
| Vinyl Chloride                    | 0.204      | 0.235      | 0.219      | 0.210      | 0.215      | 0.207      | 0.240      | 0.203      |            |            | 0.217   | 6.463   |
| 1,3-Butadiene                     |            |            | 0.228      | 0.247      | 0.254      | 0.230      | 0.239      | 0.192      |            |            | 0.232   | 9.324   |
| Bromomethane                      | 0.073      | 0.159      | 0.112      | 0.113      | 0.121      | 0.129      | 0.160      | 0.144      |            |            | 0.126   | 22.907  |
| Chloroethane                      | 0.162      | 0.250      | 0.155      | 0.149      | 0.156      | 0.156      | 0.180      | 0.156      |            |            | 0.170   | 19.609  |
| Trichlorofluoromethane            | 0.298      | 0.458      | 0.404      | 0.395      | 0.417      | 0.420      | 0.485      | 0.415      |            |            | 0.411   | 13.271  |
| Diethyl ether                     |            | 0.203      | 0.144      | 0.160      | 0.163      | 0.167      | 0.183      |            | 0.183      |            | 0.172   | 11.251  |
| Isoprene                          |            | 0.299      | 0.272      | 0.253      | 0.266      | 0.258      | 0.291      | 0.306      |            |            | 0.278   | 7.523   |
| Acrolein                          |            |            |            | 0.015      | 0.020      | 0.019      | 0.022      | 0.024      | 0.024      | 0.024      | 0.021   | 17.417  |
| 1,1,2-Trichloro-1,2,2-Trifluoroel |            | 0.287      | 0.203      | 0.207      | 0.243      | 0.211      | 0.244      | 0.238      |            |            | 0.233   | 12.669  |
| Acetone                           |            |            |            | 0.059      | 0.066      | 0.061      | 0.071      | 0.067      | 0.064      |            | 0.065   | 6.899   |
| 1,1-Dichloroethene                | 0.375      | 0.449      | 0.373      | 0.363      | 0.433      | 0.377      | 0.434      | 0.446      |            |            | 0.406   | 9.200   |
| Tert-Butyl Alcohol                |            | 0.012      | 0.012      | 0.014      | 0.015      | 0.015      | 0.020      |            | 0.019      |            | 0.015   | 20.317  |
| Dimethyl Sulfide                  |            | 0.302      | 0.250      | 0.232      | 0.294      | 0.243      | 0.267      | 0.294      |            |            | 0.269   | 10.484  |
| Iodomethane                       |            | 0.193      | 0.222      | 0.227      | 0.305      | 0.268      | 0.301      | 0.296      |            |            | 0.259   | 17.329  |
| Methyl acetate                    |            |            | 0.220      | 0.198      | 0.228      | 0.196      | 0.216      | 0.235      |            |            | 0.215   | 7.345   |
| Methylene Chloride                | 0.268      | 0.320      | 0.243      | 0.229      | 0.279      | 0.232      | 0.253      | 0.260      |            |            | 0.261   | 11.320  |
| Carbon Disulfide                  | 0.586      | 0.697      | 0.592      | 0.523      | 0.654      | 0.540      | 0.577      | 0.602      |            |            | 0.596   | 9.527   |
| Acrylonitrile                     |            |            |            | 0.073      | 0.090      | 0.084      | 0.085      | 0.090      | 0.078      |            | 0.083   | 8.232   |
| Methyl Tert Butyl Ether           |            | 0.497      | 0.483      | 0.459      | 0.522      | 0.533      | 0.559      | 0.538      |            |            | 0.513   | 6.775   |
| trans-1,2-Dichloroethene          | 0.372      | 0.426      | 0.388      | 0.366      | 0.449      | 0.412      | 0.405      | 0.416      |            |            | 0.404   | 6.881   |
| n-Hexane                          |            | 0.306      | 0.301      | 0.237      | 0.323      | 0.311      | 0.292      | 0.310      |            |            | 0.297   | 9.510   |
| Diisopropyl ether                 |            | 1.263      | 1.116      | 0.989      | 1.233      | 1.192      | 1.053      |            | 1.003      |            | 1.121   | 9.884   |
| Vinyl Acetate                     |            |            |            | 0.312      | 0.396      | 0.408      | 0.362      | 0.348      | 0.324      |            | 0.358   | 10.680  |
| 1,1-Dichloroethane                | 0.509      | 0.564      | 0.529      | 0.466      | 0.559      | 0.530      | 0.495      | 0.512      |            |            | 0.520   | 6.227   |
| Ethyl-Tert-Butyl ether            |            | 0.886      | 0.841      | 0.800      | 0.899      | 0.941      | 0.876      |            | 0.837      |            | 0.869   | 5.322   |
| 2-Butanone                        |            |            |            | 0.097      | 0.111      | 0.125      | 0.107      | 0.110      | 0.103      |            | 0.109   | 8.741   |
| Propionitrile                     |            | 0.024      | 0.027      | 0.027      | 0.031      | 0.034      | 0.030      |            | 0.030      |            | 0.029   | 11.136  |
| 2,2-Dichloropropane               | 0.350      | 0.411      | 0.392      | 0.400      | 0.419      | 0.420      | 0.436      | 0.406      |            |            | 0.404   | 6.359   |
| cis-1,2-Dichloroethene            | 0.217      | 0.292      | 0.319      | 0.284      | 0.297      | 0.302      | 0.285      | 0.283      |            |            | 0.285   | 10.535  |
| Chloroform                        | 0.437      | 0.576      | 0.544      | 0.529      | 0.526      | 0.531      | 0.523      | 0.536      | 0.502      |            | 0.523   | 7.233   |
| 1-Bromopropane                    |            |            | 0.029      | 0.054      | 0.055      | 0.060      | 0.061      | 0.061      | 0.058      |            | 0.055   | 19.933  |
| Bromochloromethane                | 0.188      | 0.192      | 0.174      | 0.167      | 0.175      | 0.173      | 0.172      | 0.165      |            |            | 0.176   | 5.379   |
| Tetrahydrofuran                   |            | 0.071      | 0.064      | 0.069      | 0.067      | 0.073      | 0.063      |            | 0.063      |            | 0.067   | 6.001   |
| Dibromofluoromethane              |            |            | 0.331      | 0.297      | 0.306      | 0.293      | 0.299      | 0.286      |            |            | 0.302   | 5.154   |
| 1,1,1-Trichloroethane             | 0.435      | 0.477      | 0.469      | 0.453      | 0.475      | 0.471      | 0.507      | 0.456      |            |            | 0.468   | 4.507   |
| Cyclohexane                       |            | 0.462      | 0.537      | 0.506      | 0.501      | 0.499      | 0.439      | 0.464      |            |            | 0.487   | 6.833   |
| 1,1-Dichloropropene               | 0.238      | 0.338      | 0.363      | 0.360      | 0.374      | 0.362      | 0.355      | 0.341      |            |            | 0.341   | 12.711  |
| Tert-Amyl-Methyl ether            |            | 0.575      | 0.572      | 0.628      | 0.608      | 0.641      | 0.605      |            | 0.588      |            | 0.602   | 4.323   |
| Carbon Tetrachloride              | 0.352      | 0.404      | 0.426      | 0.408      | 0.421      | 0.409      | 0.45       | 0.403      |            |            | 0.40917 | 6.8107  |
| 1,2-Dichloroethane-d4             |            |            | 0.331      | 0.335      | 0.312      | 0.309      | 0.323      | 0.284      |            |            | 0.31566 | 5.87642 |
| Heptane                           |            |            |            |            |            |            |            |            |            |            | 0       | 0       |
| 1,2-Dichloroethane                | 0.38       | 0.41       | 0.406      | 0.405      | 0.402      | 0.404      | 0.423      | 0.372      |            |            | 0.40039 | 4.12387 |
| Benzene                           | 0.862      | 1.079      | 1.006      | 0.996      | 1.014      | 0.973      | 0.901      | 0.877      |            |            | 0.96359 | 7.88411 |
| Trichloroethene                   | 0.3        | 0.281      | 0.276      | 0.277      | 0.296      | 0.289      | 0.295      | 0.273      |            |            | 0.2859  | 3.62746 |
| Methylcyclohexane                 |            | 0.377      | 0.404      | 0.379      | 0.384      | 0.396      | 0.375      | 0.365      |            |            | 0.3829  | 3.44592 |
| 1,2-Dichloropropane               | 0.288      | 0.3        | 0.34       | 0.323      | 0.321      | 0.314      | 0.277      | 0.273      |            |            | 0.30444 | 7.88384 |
| Bromodichloromethane              | 0.389      | 0.387      | 0.425      | 0.385      | 0.405      | 0.404      | 0.416      | 0.366      |            |            | 0.39718 | 4.79777 |
| 1,4-Dioxane                       |            |            | 0.001      | 0.002      | 0.001      | 0.002      | 0.002      |            | 0.002      |            | 0.00153 | 18.0304 |
| Dibromomethane                    | 0.11       | 0.144      | 0.161      | 0.142      | 0.152      | 0.153      | 0.153      | 0.136      |            |            | 0.14383 | 11.012  |
| 2-Chloroethyl Vinyl Ether         |            | 0.133      | 0.139      | 0.145      | 0.148      | 0.165      | 0.149      | 0.143      | 0.143      |            | 0.14564 | 6.46979 |
| 4-Methyl-2-Pentanone              |            |            |            | 0.078      | 0.073      | 0.089      | 0.077      | 0.07       | 0.074      |            | 0.07676 | 8.49858 |
| cis-1,3-Dichloropropene           | 0.441      | 0.43       | 0.409      | 0.426      | 0.436      | 0.439      | 0.422      | 0.366      |            |            | 0.42121 | 5.80569 |
| Dimethyl Disulfide                |            | 0.386      | 0.43       | 0.421      | 0.443      | 0.475      | 0.469      | 0.432      |            |            | 0.43629 | 6.86989 |
| Chlorobenzene-d5                  | ISTD       |            |            |            |            |            |            |            |            |            |         |         |
| Toluene-d8                        |            |            |            | 1.458      | 1.371      | 1.288      | 1.252      | 1.196      |            |            | 1.31289 | 7.86364 |
| Toluene                           | 1.469      | 1.669      | 1.575      | 1.472      | 1.446      | 1.411      | 1.335      | 1.255      |            |            | 1.45397 | 8.90697 |
| Ethyl Methacrylate                |            | 0.326      | 0.391      | 0.371      | 0.339      | 0.38       | 0.35       | 0.332      |            |            | 0.35568 | 7.11918 |
| Paraldehyde                       |            |            | 0.005      | 0.005      | 0.004      | 0.006      | 0.006      |            | 0.006      |            | 0.00529 | 14.8586 |
| trans-1,3-Dichloropropene         | 0.428      | 0.57       | 0.548      | 0.537      | 0.512      | 0.519      | 0.517      | 0.472      |            |            | 0.51282 | 8.72855 |
| 1,1,2-Trichloroethane             | 0.221      | 0.31       | 0.31       | 0.307      | 0.292      | 0.294      | 0.284      | 0.264      |            |            | 0.28503 | 10.5782 |
| 2-Hexanone                        |            |            |            | 0.094      | 0.096      | 0.11       | 0.098      | 0.093      | 0.096      |            | 0.09775 | 6.17676 |
| 1,3-Dichloropropane               | 0.37       | 0.475      | 0.5        | 0.486      | 0.463      | 0.462      | 0.439      | 0.364      |            |            | 0.44497 | 11.5547 |
| Tetrachloroethene                 | 0.278      | 0.366      | 0.323      | 0.335      | 0.335      | 0.327      | 0.33       | 0.287      |            |            | 0.32271 | 8.77433 |
| Dibromochloromethane              | 0.375      | 0.412      | 0.431      | 0.406      | 0.384      | 0.402      | 0.416      | 0.346      |            |            | 0.39651 | 6.77226 |
| 1,2-Dibromoethane                 | 0.277      | 0.319      | 0.297      | 0.316      | 0.304      | 0.319      | 0.311      | 0.26       |            |            | 0.30022 | 7.1378  |
| 1-Chlorohexane                    | 0.421      | 0.439      | 0.5        | 0.477      | 0.493      | 0.498      | 0.471      | 0.412      |            |            | 0.46376 | 7.57104 |
| Chlorobenzene                     | 1.115      | 1.105      | 1.141      | 1.079      | 1.048      | 1.03       | 0.995      | 0.916      |            |            | 1.05358 | 6.96716 |
| 1,1,1,2-Tetrachloroethane         | 0.358      | 0.41       | 0.373      | 0.382      | 0.384      | 0.387      | 0.395      | 0.354      |            |            | 0.38048 | 4.86226 |
| Ethylbenzene                      | 0.532      | 0.514      | 0.534      | 0.517      | 0.532      | 0.525      | 0.497      | 0.457      |            |            | 0.51347 | 5.07472 |
| m-, p-Xylene                      | 0.607      | 0.65       | 0.658      | 0.634      | 0.641      | 0.619      | 0.591      | 0.527      |            |            | 0.61591 | 6.88058 |
| o-Xylene                          | 0.646      | 0.641      | 0.629      | 0.633      | 0.633      | 0.606      | 0.607      | 0.54       |            |            | 0.61705 | 5.56876 |
| Styrene                           | 1.047      | 1.151      | 1.055      | 1.067      | 1.083      | 1.056      | 1.034      | 0.914      |            |            | 1.05077 | 6.27599 |
| Bromoform                         |            | 0.231      | 0.236      | 0.237      | 0.237      | 0.254      | 0.27       | 0.239      |            |            | 0.24331 | 5.58028 |
| Isopropylbenzene                  | 1.497      | 1.638      | 1.589      | 1.604      | 1.62       | 1.524      | 1.561      | 1.379      |            |            | 1.55166 | 5.44289 |
| 1,4-Dichlorobenzene-d4            | ISTD       |            |            |            |            |            |            |            |            |            |         |         |
| 1,1,2,2-Tetrachloroethane         | 0.547      | 0.579      | 0.679      | 0.618      | 0.654      | 0.629      | 0.521      | 0.593      |            |            | 0.60241 | 8.8303  |
| p-Bromofluorobenzene              |            |            |            | 1.035      | 1.167      | 1.029      | 0.934      | 1.096      |            |            | 1.05212 | 8.222   |





|                             |       |       |       |       |       |       |       |       |         |         |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|
| 1,2,3-Trichloropropane      |       | 0.159 | 0.196 | 0.183 | 0.197 | 0.198 | 0.172 | 0.19  | 0.18506 | 8.01924 |
| trans-1,4-Dichloro-2-Butene |       | 0.193 | 0.249 | 0.22  | 0.257 | 0.257 | 0.225 | 0.249 | 0.23566 | 10.2157 |
| n-Propylbenzene             | 3.409 | 3.71  | 3.824 | 3.708 | 4.119 | 3.605 | 3.094 | 3.384 | 3.60644 | 8.65977 |
| Bromobenzene                | 0.771 | 0.673 | 0.854 | 0.93  | 0.8   | 0.932 | 0.828 | 0.748 | 0.81775 | 10.1734 |
| 1,3,5-Trimethylbenzene      |       | 2.207 | 2.4   | 2.563 | 2.52  | 2.839 | 2.461 | 2.248 | 2.46767 | 7.98024 |
| 2-Chlorotoluene             |       | 2.461 | 2.45  | 2.453 | 2.336 | 2.586 | 2.25  | 2.064 | 2.33945 | 7.81255 |
| 4-Chlorotoluene             |       | 2.283 | 2.336 | 2.407 | 2.236 | 2.456 | 2.167 | 1.882 | 2.23267 | 8.3037  |
| a-Methylstyrene             |       |       | 1.267 | 1.523 | 1.465 | 1.636 | 1.499 | 1.312 | 1.45709 | 8.70811 |
| tert-Butylbenzene           |       | 0.382 | 0.559 | 0.597 | 0.555 | 0.574 | 0.552 | 0.507 | 0.53854 | 12.7658 |
| 1,2,4-Trimethylbenzene      | 2.27  | 2.723 | 2.702 | 2.825 | 2.718 | 2.691 | 2.475 | 2.341 | 2.59136 | 7.34764 |
| sec-Butylbenzene            |       | 2.611 | 2.972 | 3.218 | 3.064 | 3.074 | 2.953 | 2.68  | 2.90264 | 7.83513 |
| p-Isopropyltoluene          |       | 2.475 | 2.636 | 2.93  | 2.728 | 2.889 | 2.763 | 2.555 | 2.68762 | 6.26709 |
| 1,3-Dichlorobenzene         |       | 1.682 | 1.803 | 1.733 | 1.609 | 1.656 | 1.569 | 1.568 | 1.63674 | 6.36627 |
| 1,4-Dichlorobenzene         | 1.685 | 1.582 | 1.654 | 1.811 | 1.656 | 1.685 | 1.623 | 1.586 | 1.63912 | 5.67699 |
| n-Butylbenzene              |       | 2.225 | 2.538 | 2.452 | 2.396 | 2.434 | 2.38  | 2.325 | 2.36059 | 5.4934  |
| 1,2-Dichlorobenzene         | 1.233 | 1.495 | 1.542 | 1.567 | 1.485 | 1.549 | 1.478 | 1.511 | 1.46868 | 7.30255 |
| 1,2-Dibromo-3-Chloropropane |       |       |       | 0.097 | 0.104 | 0.11  | 0.117 | 0.117 | 0.10846 | 7.11531 |
| 1,2,4-Trichlorobenzene      |       | 0.887 | 1.012 | 1.015 | 0.97  | 1.11  | 0.94  | 1.027 | 0.98403 | 7.32553 |
| Hexachlorobutadiene         |       | 0.261 | 0.284 | 0.357 | 0.345 | 0.402 | 0.354 | 0.404 | 0.35305 | 15.9713 |
| Naphthalene                 |       | 1.62  | 1.989 | 1.952 | 1.898 | 2.103 | 2.022 | 1.993 | 1.89931 | 9.62013 |
| 1,2,3-Trichlorobenzene      | 0.532 | 0.725 | 0.7   | 0.794 | 0.786 | 0.864 | 0.803 | 0.811 | 0.74508 | 13.1558 |

Wed Nov 09 15:46:11 2011



Microbac Laboratories Inc.  
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11100907 Run Date: 10/24/2011 Sample ID: WG379863-13  
Instrument ID: HPMS10 Run Time: 01:37 Method: 8260B  
File ID: 10M90805 Analyst: MDA QC Key: ASHLAND  
ICal Workgroup: WG379863 Cal ID: HPMS10 - 23-OCT-11

| Analyte                   |      | Expected | Found | Units | RF    | %D    | UCL | Q |
|---------------------------|------|----------|-------|-------|-------|-------|-----|---|
| Chloroform                | CCC  | 20.0     | 17.4  | ug/L  | 0.503 | 13.1  | 25  |   |
| Chloromethane             | SPCC | 20.0     | 23.5  | ug/L  | 0.425 | 17.5  | 25  |   |
| 1,1,2,2-Tetrachloroethane | SPCC | 20.0     | 20.9  | ug/L  | 0.402 | 4.50  | 25  |   |
| Chlorobenzene             | SPCC | 20.0     | 20.0  | ug/L  | 0.952 | 0.200 | 25  |   |
| 1,1-Dichloroethane        | SPCC | 20.0     | 18.7  | ug/L  | 0.545 | 6.30  | 25  |   |
| Bromoform                 | SPCC | 20.0     | 20.7  | ug/L  | 0.174 | 3.30  | 25  |   |
| Bromomethane              |      | 20.0     | 20.1  | ug/L  | 0.178 | 0.700 | 25  |   |
| Methylene Chloride        |      | 20.0     | 19.4  | ug/L  | 0.288 | 3.00  | 25  |   |
| Trichloroethene           |      | 20.0     | 20.3  | ug/L  | 0.297 | 1.60  | 25  |   |
| Trichlorofluoromethane    |      | 20.0     | 19.4  | ug/L  | 0.467 | 2.90  | 25  |   |

\* Exceeds %D Limit

CCC Calibration Check Compounds  
SPCC System Performance Check Compounds



Microbac Laboratories Inc.  
ALTERNATE SOURCE CALIBRATION REPORT

|                                 |                                  |                               |
|---------------------------------|----------------------------------|-------------------------------|
| Login Number: <u>L11100907</u>  | Run Date: <u>11/01/2011</u>      | Sample ID: <u>WG380739-12</u> |
| Instrument ID: <u>HPMS8</u>     | Run Time: <u>15:57</u>           | Method: <u>8260B</u>          |
| File ID: <u>8M374742</u>        | Analyst: <u>ADC</u>              | QC Key: <u>ASHLAND</u>        |
| ICal Workgroup: <u>WG380739</u> | Cal ID: <u>HPMS8 - 01-NOV-11</u> |                               |

| Analyte                   |      | Expected | Found | Units | RF    | %D   | UCL | Q |
|---------------------------|------|----------|-------|-------|-------|------|-----|---|
| Chloroform                | CCC  | 50.0     | 49.1  | ug/L  | 0.513 | 1.90 | 25  |   |
| Chloromethane             | SPCC | 50.0     | 57.0  | ug/L  | 0.320 | 14.1 | 25  |   |
| 1,1,2,2-Tetrachloroethane | SPCC | 50.0     | 47.9  | ug/L  | 0.577 | 4.30 | 25  |   |
| Chlorobenzene             | SPCC | 50.0     | 49.4  | ug/L  | 1.04  | 1.10 | 25  |   |
| 1,1-Dichloroethane        | SPCC | 50.0     | 48.4  | ug/L  | 0.504 | 3.10 | 25  |   |
| Bromoform                 | SPCC | 50.0     | 53.9  | ug/L  | 0.262 | 7.80 | 25  |   |
| Bromomethane              |      | 50.0     | 58.4  | ug/L  | 0.165 | 16.8 | 25  |   |
| Methylene Chloride        |      | 50.0     | 49.0  | ug/L  | 0.256 | 1.90 | 25  |   |
| Trichloroethene           |      | 50.0     | 53.9  | ug/L  | 0.308 | 7.80 | 25  |   |
| Trichlorofluoromethane    |      | 50.0     | 60.8  | ug/L  | 0.501 | 21.7 | 25  |   |

\* Exceeds %D Limit

CCC Calibration Check Compounds  
SPCC System Performance Check Compounds

ALT - Modified 09/06/2007  
Version 1.5 PDF File ID: 2206004  
Report generated 11/14/2011 13:16



Microbac Laboratories Inc.  
CONTINUING CALIBRATION VERIFICATION (CCV)

|                                   |                                   |                               |
|-----------------------------------|-----------------------------------|-------------------------------|
| Login Number: <u>L11100907</u>    | Run Date: <u>10/31/2011</u>       | Sample ID: <u>WG380628-02</u> |
| Instrument ID: <u>HPMS10</u>      | Run Time: <u>13:31</u>            | Method: <u>8260B</u>          |
| File ID: <u>10M91010</u>          | Analyst: <u>MES</u>               | QC Key: <u>ASHLAND</u>        |
| Workgroup (AAB#): <u>WG380629</u> | Cal ID: <u>HPMS10 - 23-OCT-11</u> |                               |
| Matrix: <u>WATER</u>              |                                   |                               |

| Analyte                   |      | Expected | Found | UNITS | RF    | %D   | UCL | Q |
|---------------------------|------|----------|-------|-------|-------|------|-----|---|
| Chloroform                | CCC  | 20.0     | 17.8  | ug/L  | 0.516 | 11.0 | 20  |   |
| 1,1-Dichloroethene        | CCC  | 20.0     | 18.7  | ug/L  | 0.240 | 6.64 | 20  |   |
| 1,2-Dichloropropane       | CCC  | 20.0     | 20.6  | ug/L  | 0.290 | 2.96 | 20  |   |
| Ethylbenzene              | CCC  | 20.0     | 18.9  | ug/L  | 0.471 | 5.72 | 20  |   |
| Toluene                   | CCC  | 20.0     | 18.5  | ug/L  | 1.24  | 7.34 | 20  |   |
| Vinyl Chloride            | CCC  | 20.0     | 23.4  | ug/L  | 0.307 | 17.1 | 20  |   |
| Chloromethane             | SPCC | 20.0     | 22.3  | ug/L  | 0.403 | 11.4 | 20  |   |
| 1,1,2,2-Tetrachloroethane | SPCC | 20.0     | 22.9  | ug/L  | 0.441 | 14.7 | 20  |   |
| 1,1-Dichloroethane        | SPCC | 20.0     | 18.9  | ug/L  | 0.549 | 5.53 | 20  |   |
| Bromoform                 | SPCC | 20.0     | 21.8  | ug/L  | 0.184 | 9.16 | 20  |   |
| Chlorobenzene             | SPCC | 20.0     | 18.6  | ug/L  | 0.889 | 6.87 | 20  |   |
| Bromomethane              |      | 20.0     | 17.9  | ug/L  | 0.158 | 10.6 | 20  |   |
| Methylene Chloride        |      | 20.0     | 19.1  | ug/L  | 0.284 | 4.28 | 20  |   |
| Trichloroethene           |      | 20.0     | 19.5  | ug/L  | 0.286 | 2.30 | 20  |   |
| Trichlorofluoromethane    |      | 20.0     | 19.7  | ug/L  | 0.473 | 1.69 | 20  |   |

\* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

CCV - Modified 03/05/2008  
PDF File ID: 2206005  
Report generated 11/14/2011 13:16



## CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11100907 Run Date: 11/01/2011 Sample ID: WG380728-02  
 Instrument ID: HPMS10 Run Time: 11:01 Method: 8260B  
 File ID: 10M91039 Analyst: MES QC Key: ASHLAND  
 Workgroup (AAB#): WG380729 Cal ID: HPMS10 - 23-OCT-11  
 Matrix: WATER

| Analyte                   |      | Expected | Found | UNITS | RF    | %D    | UCL | Q |
|---------------------------|------|----------|-------|-------|-------|-------|-----|---|
| Chloroform                | CCC  | 20.0     | 18.8  | ug/L  | 0.545 | 5.97  | 20  |   |
| 1,1-Dichloroethene        | CCC  | 20.0     | 20.2  | ug/L  | 0.260 | 1.01  | 20  |   |
| 1,2-Dichloropropane       | CCC  | 20.0     | 21.4  | ug/L  | 0.301 | 7.10  | 20  |   |
| Ethylbenzene              | CCC  | 20.0     | 20.5  | ug/L  | 0.513 | 2.57  | 20  |   |
| Toluene                   | CCC  | 20.0     | 20.8  | ug/L  | 1.39  | 3.92  | 20  |   |
| Vinyl Chloride            | CCC  | 20.0     | 26.5  | ug/L  | 0.346 | 32.7  | 20  | * |
| Chloromethane             | SPCC | 20.0     | 24.1  | ug/L  | 0.436 | 20.5  | 20  | * |
| 1,1,2,2-Tetrachloroethane | SPCC | 20.0     | 20.4  | ug/L  | 0.392 | 1.97  | 20  |   |
| 1,1-Dichloroethane        | SPCC | 20.0     | 20.2  | ug/L  | 0.588 | 1.17  | 20  |   |
| Bromoform                 | SPCC | 20.0     | 20.5  | ug/L  | 0.172 | 2.32  | 20  |   |
| Chlorobenzene             | SPCC | 20.0     | 20.1  | ug/L  | 0.959 | 0.521 | 20  |   |
| Bromomethane              |      | 20.0     | 18.6  | ug/L  | 0.164 | 7.07  | 20  |   |
| Methylene Chloride        |      | 20.0     | 19.9  | ug/L  | 0.295 | 0.617 | 20  |   |
| Trichloroethene           |      | 20.0     | 21.3  | ug/L  | 0.312 | 6.51  | 20  |   |
| Trichlorofluoromethane    |      | 20.0     | 21.6  | ug/L  | 0.518 | 7.81  | 20  |   |

\* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

CCV - Modified 03/05/2008

PDF File ID: 2206005

Report generated 11/14/2011 13:16



Microbac Laboratories Inc.  
CONTINUING CALIBRATION VERIFICATION (CCV)

|                                   |                                  |                               |
|-----------------------------------|----------------------------------|-------------------------------|
| Login Number: <u>L11100907</u>    | Run Date: <u>11/02/2011</u>      | Sample ID: <u>WG380860-02</u> |
| Instrument ID: <u>HPMS8</u>       | Run Time: <u>10:21</u>           | Method: <u>8260B</u>          |
| File ID: <u>8M374766</u>          | Analyst: <u>ADC</u>              | QC Key: <u>ASHLAND</u>        |
| Workgroup (AAB#): <u>WG380862</u> | Cal ID: <u>HPMS8 - 01-NOV-11</u> |                               |
| Matrix: <u>WATER</u>              |                                  |                               |

| Analyte                   |      | Expected | Found | UNITS | RF    | %D    | UCL | Q |
|---------------------------|------|----------|-------|-------|-------|-------|-----|---|
| Chloroform                | CCC  | 50.0     | 55.0  | ug/L  | 0.575 | 10.0  | 20  |   |
| 1,1-Dichloroethene        | CCC  | 50.0     | 55.4  | ug/L  | 0.450 | 10.8  | 20  |   |
| 1,2-Dichloropropane       | CCC  | 50.0     | 55.1  | ug/L  | 0.335 | 10.1  | 20  |   |
| Ethylbenzene              | CCC  | 50.0     | 50.6  | ug/L  | 0.520 | 1.18  | 20  |   |
| Toluene                   | CCC  | 50.0     | 50.5  | ug/L  | 1.47  | 1.04  | 20  |   |
| Vinyl Chloride            | CCC  | 50.0     | 51.2  | ug/L  | 0.222 | 2.50  | 20  |   |
| Chloromethane             | SPCC | 50.0     | 53.7  | ug/L  | 0.302 | 7.44  | 20  |   |
| 1,1,2,2-Tetrachloroethane | SPCC | 50.0     | 43.6  | ug/L  | 0.526 | 12.8  | 20  |   |
| 1,1-Dichloroethane        | SPCC | 50.0     | 56.1  | ug/L  | 0.584 | 12.2  | 20  |   |
| Bromoform                 | SPCC | 50.0     | 43.8  | ug/L  | 0.213 | 12.5  | 20  |   |
| Chlorobenzene             | SPCC | 50.0     | 49.5  | ug/L  | 1.04  | 0.904 | 20  |   |
| Bromomethane              |      | 50.0     | 62.0  | ug/L  | 0.176 | 24.1  | 20  | * |
| Methylene Chloride        |      | 50.0     | 56.2  | ug/L  | 0.293 | 12.3  | 20  |   |
| Trichloroethene           |      | 50.0     | 57.0  | ug/L  | 0.326 | 14.1  | 20  |   |
| Trichlorofluoromethane    |      | 50.0     | 52.1  | ug/L  | 0.429 | 4.22  | 20  |   |

\* Exceeds %D Criteria

CCC Calibration Check Compounds  
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008  
PDF File ID: 2206005  
Report generated 11/14/2011 13:16



Microbac Laboratories Inc.  
INTERNAL STANDARD AREA SUMMARY  
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11100907  
Instrument ID: HPMS10  
Workgroup (AAB#): WG380629

ICAL CCV Number: WG379863-03  
CAL ID: HPMS10 - 23-OCT-11  
Matrix: WATER

| Sample Number | Dilution | Tag  | IS-1   | IS-2    | IS-3    |
|---------------|----------|------|--------|---------|---------|
| WG379863-03   | NA       | NA   | 259645 | 526262  | 769070  |
| Upper Limit   | NA       | NA   | 519290 | 1052524 | 1538140 |
| Lower Limit   | NA       | NA   | 129823 | 263131  | 384535  |
| L11100907-01  | 1.00     | 01   | 236471 | 448912  | 523840  |
| L11100907-02  | 1.00     | 01   | 237505 | 442903  | 521310  |
| L11100907-03  | 1000     | DL02 | 244485 | 469805  | 548383  |
| L11100907-04  | 1.00     | 01   | 234534 | 456211  | 542038  |
| L11100907-05  | 1.00     | 01   | 261526 | 510541  | 651959  |
| L11100907-06  | 1.00     | 01   | 258284 | 499401  | 638456  |
| L11100907-09  | 1.00     | 01   | 233193 | 444573  | 520700  |
| L11100907-17  | 1.00     | 01   | 232831 | 436594  | 516472  |
| L11100907-18  | 1.00     | 01   | 231067 | 432554  | 497895  |
| WG380629-01   | 1.00     | 01   | 250501 | 474347  | 548861  |
| WG380629-02   | 1.00     | 01   | 250011 | 463619  | 663618  |

IS-1 - 1,4-Dichlorobenzene-d4  
IS-2 - Chlorobenzene-d5  
IS-3 - Fluorobenzene

Underline = Response outside limits





Microbac Laboratories Inc.  
INTERNAL STANDARD AREA SUMMARY  
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11100907  
Instrument ID: HPMS10  
Workgroup (AAB#): WG380729

ICAL CCV Number: WG379863-03  
CAL ID: HPMS10 - 23-OCT-11  
Matrix: WATER

| Sample Number       | Dilution     | Tag         | IS-1          | IS-2          | IS-3          |
|---------------------|--------------|-------------|---------------|---------------|---------------|
| WG379863-03         | NA           | NA          | 259645        | 526262        | 769070        |
| Upper Limit         | NA           | NA          | 519290        | 1052524       | 1538140       |
| Lower Limit         | NA           | NA          | 129823        | 263131        | 384535        |
| <u>L11100907-03</u> | <u>10000</u> | <u>DL01</u> | <u>229151</u> | <u>442212</u> | <u>522906</u> |
| WG380729-01         | 1.00         | 01          | 246134        | 459739        | 534210        |
| WG380729-02         | 1.00         | 01          | 259341        | 490179        | 680353        |
| WG380729-03         | 1.00         | 01          | 264314        | 489678        | 677156        |

IS-1 - 1,4-Dichlorobenzene-d4  
IS-2 - Chlorobenzene-d5  
IS-3 - Fluorobenzene

Underline = Response outside limits



Microbac Laboratories Inc.  
INTERNAL STANDARD AREA SUMMARY  
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11100907  
Instrument ID: HPMS8  
Workgroup (AAB#): WG380862

ICAL CCV Number: WG380739-08  
CAL ID: HPMS8 - 01-NOV-11  
Matrix: WATER

| Sample Number       | Dilution    | Tag       | IS-1          | IS-2          | IS-3          |
|---------------------|-------------|-----------|---------------|---------------|---------------|
| WG380739-08         | NA          | NA        | 274130        | 528229        | 723278        |
| Upper Limit         | NA          | NA        | 548260        | 1056458       | 1446556       |
| Lower Limit         | NA          | NA        | 137065        | 264115        | 361639        |
| <u>L11100907-07</u> | <u>1.00</u> | <u>01</u> | <u>223526</u> | <u>411253</u> | <u>506542</u> |
| L11100907-08        | 1.00        | 01        | 239939        | 450378        | 578711        |
| L11100907-10        | 1.00        | 01        | 234399        | 429239        | 566756        |
| L11100907-11        | 1.00        | 01        | 235805        | 426452        | 527772        |
| L11100907-12        | 1.00        | 01        | 230221        | 430097        | 483333        |
| L11100907-13        | 1.00        | 01        | 227049        | 425527        | 549460        |
| L11100907-14        | 1.00        | 01        | 208036        | 433457        | 552494        |
| L11100907-15        | 1.00        | 01        | 241634        | 451069        | 591481        |
| L11100907-16        | 1.00        | 01        | 209410        | 411265        | 545206        |
| WG380862-01         | 1.00        | 01        | 277941        | 532556        | 700863        |
| WG380862-02         | 1.00        | 01        | 278697        | 528247        | 662618        |
| WG380862-03         | 1.00        | 01        | 291203        | 562881        | 691319        |

IS-1 - 1,4-Dichlorobenzene-d4  
IS-2 - Chlorobenzene-d5  
IS-3 - Fluorobenzene

Underline = Response outside limits



Microbac Laboratories Inc.  
INTERNAL STANDARD RETENTION TIME SUMMARY  
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11100907  
Instrument ID: HPMS10  
Workgroup (AAB#): WG380629

ICAL CCV Number: WG379863-03  
CAL ID: HPMS10 - 23-OCT-11  
Matrix: WATER

| Sample Number | Dilution | Tag  | IS-1  | IS-2  | IS-3  |
|---------------|----------|------|-------|-------|-------|
| WG379863-03   | NA       | NA   | 17.01 | 14.2  | 10.55 |
| Upper Limit   | NA       | NA   | 17.51 | 14.7  | 11.05 |
| Lower Limit   | NA       | NA   | 16.51 | 13.7  | 10.05 |
| L11100907-01  | 1.00     | 01   | 17.01 | 14.19 | 10.55 |
| L11100907-02  | 1.00     | 01   | 17.01 | 14.2  | 10.55 |
| L11100907-03  | 1000     | DL02 | 17    | 14.19 | 10.56 |
| L11100907-04  | 1.00     | 01   | 17    | 14.19 | 10.55 |
| L11100907-05  | 1.00     | 01   | 17.01 | 14.19 | 10.56 |
| L11100907-06  | 1.00     | 01   | 17    | 14.19 | 10.55 |
| L11100907-09  | 1.00     | 01   | 17    | 14.19 | 10.56 |
| L11100907-17  | 1.00     | 01   | 17    | 14.19 | 10.56 |
| L11100907-18  | 1.00     | 01   | 17    | 14.19 | 10.55 |
| WG380629-01   | 1.00     | 01   | 17    | 14.2  | 10.55 |
| WG380629-02   | 1.00     | 01   | 17    | 14.19 | 10.55 |

IS-1 - 1,4-Dichlorobenzene-d4  
IS-2 - Chlorobenzene-d5  
IS-3 - Fluorobenzene

Underline = Response outside limits



Microbac Laboratories Inc.  
INTERNAL STANDARD RETENTION TIME SUMMARY  
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11100907  
Instrument ID: HPMS10  
Workgroup (AAB#): WG380729

ICAL CCV Number: WG379863-03  
CAL ID: HPMS10 - 23-OCT-11  
Matrix: WATER

| Sample Number       | Dilution     | Tag         | IS-1      | IS-2         | IS-3         |
|---------------------|--------------|-------------|-----------|--------------|--------------|
| WG379863-03         | NA           | NA          | 17.01     | 14.2         | 10.55        |
| Upper Limit         | NA           | NA          | 17.51     | 14.7         | 11.05        |
| Lower Limit         | NA           | NA          | 16.51     | 13.7         | 10.05        |
| <u>L11100907-03</u> | <u>10000</u> | <u>DL01</u> | <u>17</u> | <u>14.19</u> | <u>10.55</u> |
| WG380729-01         | 1.00         | 01          | 17        | 14.19        | 10.55        |
| WG380729-02         | 1.00         | 01          | 17        | 14.19        | 10.55        |
| WG380729-03         | 1.00         | 01          | 17        | 14.19        | 10.55        |

IS-1 - 1,4-Dichlorobenzene-d4  
IS-2 - Chlorobenzene-d5  
IS-3 - Fluorobenzene

Underline = Response outside limits



Microbac Laboratories Inc.  
INTERNAL STANDARD RETENTION TIME SUMMARY  
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11100907  
Instrument ID: HPMS8  
Workgroup (AAB#): WG380862

ICAL CCV Number: WG380739-08  
CAL ID: HPMS8 - 01-NOV-11  
Matrix: WATER

| Sample Number | Dilution | Tag | IS-1  | IS-2 | IS-3  |
|---------------|----------|-----|-------|------|-------|
| WG380739-08   | NA       | NA  | 17.11 | 14.1 | 10.25 |
| Upper Limit   | NA       | NA  | 17.61 | 14.6 | 10.75 |
| Lower Limit   | NA       | NA  | 16.61 | 13.6 | 9.75  |
| L11100907-07  | 1.00     | 01  | 17.11 | 14.1 | 10.25 |
| L11100907-08  | 1.00     | 01  | 17.11 | 14.1 | 10.25 |
| L11100907-10  | 1.00     | 01  | 17.11 | 14.1 | 10.25 |
| L11100907-11  | 1.00     | 01  | 17.11 | 14.1 | 10.25 |
| L11100907-12  | 1.00     | 01  | 17.11 | 14.1 | 10.25 |
| L11100907-13  | 1.00     | 01  | 17.11 | 14.1 | 10.25 |
| L11100907-14  | 1.00     | 01  | 17.11 | 14.1 | 10.25 |
| L11100907-15  | 1.00     | 01  | 17.11 | 14.1 | 10.26 |
| L11100907-16  | 1.00     | 01  | 17.11 | 14.1 | 10.24 |
| WG380862-01   | 1.00     | 01  | 17.11 | 14.1 | 10.25 |
| WG380862-02   | 1.00     | 01  | 17.11 | 14.1 | 10.25 |
| WG380862-03   | 1.00     | 01  | 17.11 | 14.1 | 10.25 |

IS-1 - 1,4-Dichlorobenzene-d4  
IS-2 - Chlorobenzene-d5  
IS-3 - Fluorobenzene

Underline = Response outside limits



## **3.0 Attachments**

Microbac Laboratories Inc.  
Analyst Listing  
November 14, 2011

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|                           |                           |                             |
|---------------------------|---------------------------|-----------------------------|
| ADC - ANTHONY D. CANTER   | AJF - AMANDA J. FICKIESEN | ALB - ANNIE L. BROWN        |
| ALV - AMY L. VALENTINE    | AML - TONY M. LONG        | AZH - AFTER HOURS           |
| BLG - BRENDA L. GREENWALT | BRG - BRENDA R. GREGORY   | CAA - CASSIE A. AUGENSTEIN  |
| CAF - CHERYL A. FLOWERS   | CEB - CHAD E. BARNES      | CLC - CHRYS L. CRAWFORD     |
| CLS - CARA L. STRICKLER   | CLW - CHARISSA L. WINTERS | CPD - CHAD P. DAVIS         |
| CS - CODY M. STRAHLER     | CSH - CHRIS S. HILL       | DDE - DEBRA D. ELLIOTT      |
| DEV - DAVID E. VANDENBERG | DGB - DOUGLAS G. BUTCHER  | DHG - DEBORAH H. GRIFFITHS  |
| DIH - DEANNA I. HESSON    | DLB - DAVID L. BUMGARNER  | DLP - DOROTHY L. PAYNE      |
| DLR - DIANNA L. RAUCH     | DSM - DAVID S. MOSSOR     | ECL - ERIC C. LAWSON        |
| EDL - ERIN D. LONG        | ERP - ERIN R. PORTER      | FJB - FRANCES J. BOLDEN     |
| HAV - HEMA VILASAGAR      | HJR - HOLLY J. REED       | JAL - JOHN A. LENT          |
| JBK - JEREMY B. KINNEY    | JDH - JUSTIN D. HESSON    | JKT - JANE K. THOMPSON      |
| JLL - JOHN L. LENT        | JWR - JOHN W. RICHARDS    | JWS - JACK W. SHEAVES       |
| JYH - JI Y. HU            | KEB - KATIE E. BARNES     | KHR - KIM H. RHODES         |
| KRA - KATHY R. ALBERTSON  | LKN - LINDA K. NEDEFF     | LSB - LESLIE S. BUCINA      |
| MDA - MIKE D. ALBERTSON   | MDC - MIKE D. COCHRAN     | MES - MARY E. SCHILLING     |
| MMB - MAREN M. BEERY      | MRT - MICHELLE R. TAYLOR  | MSW - MATT S. WILSON        |
| PDM - PIERCE D. MORRIS    | PWD - PAUL W. DENT        | RAH - ROY A. HALSTEAD       |
| REK - BOB E. KYER         | RLB - BOB BUCHANAN        | RLK - ROBIN L. KLINGER      |
| RWC - RODNEY W. CAMPBELL  | SJP - SUZANNE J. PAUGH    | SLM - STEPHANIE L. MOSSBURG |
| SLP - SHERI L. PFALZGRAF  | TIP - TAE I. PARRISH      | TMB - TIFFANY M. BAILEY     |
| TMM - TAMMY M. MORRIS     | VC - VICKI COLLIER        | WJB - WILL J. BEASLEY       |
| WTD - WADE T. DELONG      |                           |                             |



November 14, 2011

Qualkey: CLP

| Qualifier | Description                                                                           |
|-----------|---------------------------------------------------------------------------------------|
| *         | Surrogate or spike compound out of range                                              |
| +         | Correlation coefficient for the MSA is less than 0.995                                |
| <         | Result is less than the associated numerical value.                                   |
| >         | Result is greater than the associated numerical value.                                |
| A         | See the report narrative                                                              |
| B         | Analyte present in method blank                                                       |
| B1        | Target analyte detected in method blank at or above the method reporting limit        |
| B3        | Target analyte detected in calibration blank at or above the method reporting limit   |
| B4        | The BOD unseeded dilution water blank exceeded 0.2 mg/L                               |
| C         | Confirmed by GC/MS                                                                    |
| CG        | Confluent growth                                                                      |
| DL        | Surrogate or spike compound was diluted out                                           |
| E         | Semiquantitative result (out of instrument calibration range)                         |
| EDL       | Elevated sample reporting limits, presence of non-target analytes                     |
| EMPC      | Estimated Maximum Possible Concentration                                              |
| F, S      | Estimated result below quantitation limit; method of standard additions(MSA)          |
| FL        | Free Liquid                                                                           |
| H1        | Sample analysis performed past holding time.                                          |
| I         | Semiquantitative result (out of instrument calibration range)                         |
| J         | Estimated concentration.                                                              |
| J         | The analyte was positively identified, but the quantitation was below the RL.         |
| J,B       | Analyte detected in both the method blank and sample above the MDL.                   |
| J,P       | Estimate; columns don't agree to within 40%                                           |
| J,S       | Estimated concentration; analyzed by method of standard addition (MSA)                |
| L         | Sample reporting limits elevated due to matrix interference                           |
| L1        | The associated blank spike (LCS) recovery was above the laboratory acceptance limits. |
| L2        | The associated blank spike (LCS) recovery was below the laboratory acceptance limits. |
| M         | Matrix effect; the concentration is an estimate due to matrix effect.                 |
| N         | Tentatively identified compound(TIC)                                                  |
| NA        | Not applicable                                                                        |
| ND        | Not detected at or above the reporting limit (RL).                                    |
| ND, L     | Not detected; sample reporting limit (RL) elevated due to interference                |
| ND, S     | Not detected; analyzed by method of standard addition (MSA)                           |
| NF        | Not found by library search                                                           |
| NFL       | No free liquid                                                                        |
| NI        | Non-ignitable                                                                         |
| NR        | Analyte is not required to be analyzed                                                |
| NS        | Not spiked                                                                            |
| P         | Concentrations >40% difference between the two GC columns                             |
| Q         | One or more quality control criteria failed. See narrative.                           |
| QNS       | Quantity of sample not sufficient to perform analysis                                 |
| RA        | Reanalysis confirms reported results                                                  |
| RE        | Reanalysis confirms sample matrix interference                                        |
| S         | Analyzed by method of standard addition (MSA)                                         |
| SMI       | Sample matrix interference on surrogate                                               |
| SP        | Reported results are for spike compounds only                                         |
| TIC       | Library Search Compound                                                               |
| TNTC      | Too numerous to count                                                                 |
| U         | Not detected at or above the reporting limit (RL).                                    |
| UJ        | Undetected; the MDL and RL are estimated due to quality control discrepancies.        |
| UJ        | Undetected; the analyte was analyzed for, but not detected.                           |
| UQ        | Undetected; the analyte was analyzed for, but not detected.                           |
| W         | Post-digestion spike for furnace AA out of control limits                             |
| X         | Exceeds regulatory limit                                                              |
| X, S      | Exceeds regulatory limit; method of standard additions (MSA)                          |
| Z         | Cannot be resolved from isomer - see below                                            |

**\*\*\*Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.



COC No. A 27521

158 Starlite Drive  
Marietta, OH 45750

Microbac

Phone: 740-373-4071

Fax: 740-373-4835

## CHAIN-OF-CUSTODY RECORD

| Company Name:<br><b>CH2M HILL</b>     |      | Contact Phone #:<br><b>937-220-2909</b> |          | Project Contact:<br><b>Matt Gale</b> |         | Turn Around Requirements:<br><b>Standard</b> |  | Location:<br><b>Dexon, OH</b> |  | Project ID:<br><b>Dow Ashland - 421669.11. GW</b> |  | Program<br><input type="checkbox"/> CWA<br><input checked="" type="checkbox"/> RCRA<br><input type="checkbox"/> DOD<br><input type="checkbox"/> AFCEE<br><input type="checkbox"/> Other |  |
|---------------------------------------|------|-----------------------------------------|----------|--------------------------------------|---------|----------------------------------------------|--|-------------------------------|--|---------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Sampler (print):<br><b>Damit Tech</b> |      | Signature:<br><i>Damit</i>              |          | NUMBER OF CONTAINERS                 |         | Hold                                         |  | TOTAL # (LAB USE)             |  | ADDITIONAL REQUIREMENTS                           |  |                                                                                                                                                                                         |  |
| Sample I.D. No.                       | Comp | Grab                                    | Date     | Time                                 | Matrix* |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| MW18 GW3035-102411                    | X    | X                                       | 10/24/11 | 1425                                 | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| BW18 GW1828-102411                    | X    | X                                       | 10/24/11 | 1510                                 | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| MW16 GW1020-102411                    | X    | X                                       | 10/24/11 | 1540                                 | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| MW07 GW2030-102411                    | X    | X                                       | 10/24/11 | 1646                                 | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| MW07 GW2030-102411                    | X    | X                                       | 10/24/11 | 1640                                 | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| MW07 GW2030-102411                    | X    | X                                       | 10/24/11 | 1646                                 | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| MW21 GW2434-102511                    | X    | X                                       | 10/25/11 | 0815                                 | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| MW20 GW2333-102511                    | X    | X                                       | 10/25/11 | 0905                                 | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| FD01-102511                           | X    | X                                       | 10/25/11 | —                                    | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| MW23 GW3040-102511                    | X    | X                                       | 10/25/11 | 0945                                 | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| MW22 GW2535-102511                    | X    | X                                       | 10/25/11 | 1025                                 | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| MW12 GW1424-102511                    | X    | X                                       | 10/25/11 | 1100                                 | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| MW03 GW1626-102511                    | X    | X                                       | 10/25/11 | 1240                                 | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| MW10 GW1733-102511                    | X    | X                                       | 10/25/11 | 1315                                 | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| MW19 GW1828-102511                    | X    | X                                       | 10/25/11 | 1345                                 | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| MW09 GW1424-102511                    | X    | X                                       | 10/25/11 | 1420                                 | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| FA02-102511                           | X    | X                                       | 10/25/11 | —                                    | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| TRIPBLANK-102511                      | X    | X                                       | 10/25/11 | —                                    | W       |                                              |  |                               |  |                                                   |  |                                                                                                                                                                                         |  |
| Relinquished by: <i>Damit</i>         |      |                                         |          |                                      |         | Received by: <i>Damit</i>                    |  | Relinquished by: <i>Damit</i> |  | Received by: <i>Damit</i>                         |  |                                                                                                                                                                                         |  |
| Date: 10/25/11                        |      |                                         |          |                                      |         | Time: 1500                                   |  | Date: 10/25/11                |  | Time: 11:08                                       |  |                                                                                                                                                                                         |  |
| Relinquished by: <i>Damit</i>         |      |                                         |          |                                      |         | Received by: <i>Damit</i>                    |  | Relinquished by: <i>Damit</i> |  | Received by: <i>Damit</i>                         |  |                                                                                                                                                                                         |  |
| Date: 10/25/11                        |      |                                         |          |                                      |         | Time: 1500                                   |  | Date: 10/25/11                |  | Time: 11:08                                       |  |                                                                                                                                                                                         |  |

221000019641

Microbac OVD

Received: 10/25/2011 11:08

D.V. CIVILIANE DRUGS

*Dyanne Rugh*

\*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

## Internal Chain of Custody Report

Login: L11100907

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 09-NOV-2011

| <u>Samplenum</u>    | <u>Container ID</u> | <u>Products</u> |
|---------------------|---------------------|-----------------|
| <b>L11100907-01</b> | 901384              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:07 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:07 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:07 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

| <u>Samplenum</u>    | <u>Container ID</u> | <u>Products</u> |
|---------------------|---------------------|-----------------|
| <b>L11100907-02</b> | 901385              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:07 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:07 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | ORG4 | 26-OCT-2011 16:20 | JKT    |            |
| 2    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

A1 - Sample Archive (COLD)  
 A2 - Sample Archive (AMBIENT)  
 F1 - Volatiles Freezer in Login  
 V1 - Volatiles Refrigerator in Login  
 W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L11100907

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 09-NOV-2011

**Samplenum**      **Container ID**      **Products**  
**L11100907-03**      901386      826-SPE1

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:07 | MRT    | JKT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:07 | MRT    | JKT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:07 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

**Samplenum**      **Container ID**      **Products**  
**L11100907-04**      901387      826-SPE1

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:07 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:07 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:07 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L11100907

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 09-NOV-2011

**Samplenum**      **Container ID**      **Products**  
**L11100907-05**      901388      826-SPE1

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

**Samplenum**      **Container ID**      **Products**  
**L11100907-06**      901389      826-SPE1

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L11100907

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 09-NOV-2011

| <u>Samplenum</u> | <u>Container ID</u> | <u>Products</u> |
|------------------|---------------------|-----------------|
| L11100907-07     | 901390              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

| <u>Samplenum</u> | <u>Container ID</u> | <u>Products</u> |
|------------------|---------------------|-----------------|
| L11100907-08     | 901391              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:57 | JKT    | MRT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

A1 - Sample Archive (COLD)  
 A2 - Sample Archive (AMBIENT)  
 F1 - Volatiles Freezer in Login  
 V1 - Volatiles Refrigerator in Login  
 W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L11100907

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 09-NOV-2011

**Samplenum**      **Container ID**      **Products**  
**L11100907-09**      901392      826-SPE1

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |

**Samplenum**      **Container ID**      **Products**  
**L11100907-10**      901393      826-SPE1

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login





## Internal Chain of Custody Report

Login: L11100907

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 09-NOV-2011

| <u>Samplenum</u>    | <u>Container ID</u> | <u>Products</u> |
|---------------------|---------------------|-----------------|
| <b>L11100907-11</b> | 901394              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

| <u>Samplenum</u>    | <u>Container ID</u> | <u>Products</u> |
|---------------------|---------------------|-----------------|
| <b>L11100907-12</b> | 901395              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

A1 - Sample Archive (COLD)  
 A2 - Sample Archive (AMBIENT)  
 F1 - Volatiles Freezer in Login  
 V1 - Volatiles Refrigerator in Login  
 W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L11100907

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 09-NOV-2011

| <u>Samplenum</u>    | <u>Container ID</u> | <u>Products</u> |
|---------------------|---------------------|-----------------|
| <b>L11100907-13</b> | 901396              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

| <u>Samplenum</u>    | <u>Container ID</u> | <u>Products</u> |
|---------------------|---------------------|-----------------|
| <b>L11100907-14</b> | 901397              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

A1 - Sample Archive (COLD)  
 A2 - Sample Archive (AMBIENT)  
 F1 - Volatiles Freezer in Login  
 V1 - Volatiles Refrigerator in Login  
 W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L11100907

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 09-NOV-2011

| <u>Samplenum</u>    | <u>Container ID</u> | <u>Products</u> |
|---------------------|---------------------|-----------------|
| <b>L11100907-15</b> | 901398              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

| <u>Samplenum</u>    | <u>Container ID</u> | <u>Products</u> |
|---------------------|---------------------|-----------------|
| <b>L11100907-16</b> | 901399              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

A1 - Sample Archive (COLD)  
 A2 - Sample Archive (AMBIENT)  
 F1 - Volatiles Freezer in Login  
 V1 - Volatiles Refrigerator in Login  
 W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L11100907

Account: 2736

Project: 2736.059

Samples: 18

Due Date: 09-NOV-2011

| <u>Samplenum</u>    | <u>Container ID</u> | <u>Products</u> |
|---------------------|---------------------|-----------------|
| <b>L11100907-17</b> | 901400              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 3

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

| <u>Samplenum</u>    | <u>Container ID</u> | <u>Products</u> |
|---------------------|---------------------|-----------------|
| <b>L11100907-18</b> | 901401              | 826-SPE1        |

Bottle: 1

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

Bottle: 2

| Seq. | Purpose | From   | To   | Date/Time         | Accept | Relinquish |
|------|---------|--------|------|-------------------|--------|------------|
| 1    | LOGIN   | COOLER | V1   | 26-OCT-2011 16:20 | JKT    |            |
| 2    | ANALYZ  | V1     | ORG4 | 27-OCT-2011 08:08 | MRT    | JKT        |
| 3    | STORE   | ORG4   | A2   | 09-NOV-2011 07:56 | JKT    | MRT        |

A1 - Sample Archive (COLD)  
 A2 - Sample Archive (AMBIENT)  
 F1 - Volatiles Freezer in Login  
 V1 - Volatiles Refrigerator in Login  
 W1 - Walkin Cooler in Login



Appendix C  
**Data Quality Evaluation Reports**

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# Dow Former General Latex and Chemical Corporation Site, Ashland, Ohio

## Groundwater Investigation

### Data Quality Evaluation

#### Introduction

The objective of this data quality evaluation (DQE) report is to assess the data quality of analytical results for groundwater samples collected from the Dow Former General Latex and Chemical Corporation Site located in Ashland, Ohio. CH2M HILL collected samples April 27-28, 2011. Guidance for this DQE report came from the *Quality Assurance Project Plan (QAPP), Former General Latex and Chemical Corporation Site, Ashland, Ohio, RCRA Facility Investigation (August 2008)*; the U.S. Environmental Protection Agency (USEPA) *Contract Laboratory National Functional Guidelines (NFG) for Organic Review, October 1999*; and, individual method requirements.

The analytical results were evaluated using the criteria of precision, accuracy, representativeness, comparability and completeness (PARCC) as presented in the QAPP. This report is intended as a general data quality assessment designed to summarize data issues.

#### Analytical Data

This DQE report covers 13 groundwater samples, 2 field duplicates (FD) and one trip blank (TB). A list of samples included in this DQE is included as Attachment A. The samples were reported in one sample delivery group identified as L11050025. The analyses were performed by Microbac Laboratories, Inc. (MCBM) in Marietta, Ohio. Samples were collected and shipped by overnight carrier to the laboratory for analysis. The samples were analyzed by the method listed in Table 1.

TABLE 1  
Analytical Parameters  
Groundwater Investigation, Former General Latex and Chemical Corporation Site, Ashland, Ohio

| Parameter                        | Method  | Laboratory |
|----------------------------------|---------|------------|
| Volatile Organic Compounds (VOC) | SW8260B | MCBM       |

The sample delivery group was assessed by reviewing the following: (1) the chain of custody documentation; (2) holding-time compliance; (3) initial and continuing calibration criteria; (4) method blanks/field blanks; (5) laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries; (6) matrix spike/matrix spike duplicate (MS/MSD) recoveries; (7) surrogate spike recoveries; (8) FD precision; (9) internal standard recoveries; and, (10) the required quality control (QC) samples at the specified frequencies.

Data flags were assigned according to the QAPP. Multiple flags are routinely applied to specific sample method/matrix/analyte combinations, but there will only be one final flag. A final flag is applied to the data and is the most conservative of the applied validation flags. The final flag also includes matrix and blank sample impacts.

The data flags are those listed in the QAPP and are defined below:

- J = The identification of the analyte was acceptable, but the quality assurance criteria indicate that the quantitative values may be outside the normal expected range of precision (i.e. the quantitative value is considered estimated).
- R = The result was rejected. This flag denotes the failure of quality control criteria such that it cannot be determined if the analyte is present or absent in the sample.
- U = The analyte was analyzed for but not detected.
- UJ = The analyte was not detected. However, the reported detection limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

## Findings

The overall summaries of the data validation are contained in the following sections. No data required qualification due to this assessment.

### Holding Time/Preservation

All acceptance criteria were met.

### Calibration

Initial and continuing calibration analyses were performed as required and all acceptance criteria.

### Method Blanks

Method blanks were analyzed at the required frequency and were free of contamination.

### Field Blanks

A TB was collected, analyzed and was free of contamination.

### Laboratory Control Samples

LCS/LCSDs were analyzed as required and all accuracy and precision criteria were met.

### Matrix Spike

MS/MSD samples were analyzed as required and all accuracy and precision criteria were met.

### Internal Standards

All internal standard acceptance criteria were met.



## Surrogates

All surrogate acceptance criteria were met.

## Field Duplicates

FDs were collected at the required frequency, analyzed and all precision criteria were met.

## Chain of Custody

Required procedures were followed and were free of errors.

## Overall Assessment

The goal of this assessment is to demonstrate that a sufficient number of representative samples were collected and the resulting analytical data can be used to support the decision making process. The following summary highlights the PARCC findings for the above-defined events:

Precision of the data was verified through the review of the field and laboratory data quality indicators that include: FD, LCS/LCSD and MS/MSD RPDs. Precision was acceptable.

Accuracy of the data was verified through the review of the calibration data, LCS/LCSD, MS/MSD, internal standards and surrogate standard recoveries. Accuracy was acceptable.

Representativeness of the data was verified through the samples' collection, storage and preservation procedures, verification of holding-time compliance and the evaluation of method/field blank data. The laboratory did not note any issues related to sample preservation or storage of the samples. All samples were analyzed within the EPA-recommended holding time. The method blanks/field blanks were free of contamination.

Comparability of the data was verified through the use of standard EPA analytical procedures and standard units for reporting. Results obtained are comparable to industry standards in that the collection and analytical techniques followed approved, documented procedures.

Completeness is a measure of the number of valid measurements obtained in relation to the total number of measurements planned. Completeness is expressed as the percentage of valid or usable measurements compared to planned measurements. Valid data are defined as all data that are not rejected for project use. All data are considered valid. The completeness goal was met for all compounds.

# Attachment A

---

| Samples Associated with DQE |             |           |
|-----------------------------|-------------|-----------|
| Field ID                    | Sample Date | QAQC Type |
| FD01-042711                 | 27-Apr-11   | FD        |
| FD02-042811                 | 28-Apr-11   | FD        |
| MW03GW1626-042811           | 28-Apr-11   | N         |
| MW07GW2030-042711           | 27-Apr-11   | N         |
| MW09GW1424-042811           | 28-Apr-11   | N         |
| MW10GW1732-042811           | 28-Apr-11   | N         |
| MW12GW1424-042811           | 28-Apr-11   | N         |
| MW16GW1020-042711           | 27-Apr-11   | N         |
| MW18GW3035-042711           | 30-Mar-10   | N         |
| MW19GW1828-042811           | 28-Apr-11   | N         |
| MW20GW2333-042811           | 28-Apr-11   | N         |
| MW21GW2434-042711           | 27-Apr-11   | N         |
| MW22GW2535-042811           | 28-Apr-11   | N         |
| MW23GW3040-042811           | 28-Apr-11   | N         |
| BMWGW1828-042711            | 27-Apr-11   | N         |
| TRIP BLANK-042811           | 28-Apr-11   | TB        |

Notes:

FD = field duplicate

N = normal sample

TB = trip blank

# Dow Former General Latex and Chemical Corporation Site, Ashland, Ohio

## Groundwater Investigation

### Data Quality Evaluation

## Introduction

The objective of this data quality evaluation (DQE) report is to assess the data quality of analytical results for groundwater samples collected from the Dow Former General Latex and Chemical Corporation Site located in Ashland, Ohio. CH2M HILL collected samples October 24-25, 2011. Guidance for this DQE report came from the *Quality Assurance Project Plan (QAPP), Former General Latex and Chemical Corporation Site, Ashland, Ohio, RCRA Facility Investigation (August 2008)*; the U.S. Environmental Protection Agency (USEPA) *Contract Laboratory National Functional Guidelines (NFG) for Organic Review, October 1999*; and, individual method requirements.

The analytical results were evaluated using the criteria of precision, accuracy, representativeness, comparability and completeness (PARCC) as presented in the QAPP. This report is intended as a general data quality assessment designed to summarize data issues.

## Analytical Data

This DQE report covers 13 groundwater samples, 2 field duplicates (FD) and one trip blank (TB). A list of samples included in this DQE is included as Attachment A. The samples were reported in one sample delivery group identified as L11100907. The analyses were performed by Microbac Laboratories, Inc. (MCBM) in Marietta, Ohio. Samples were collected and shipped by overnight carrier to the laboratory for analysis. The samples were analyzed by the method listed in Table 1.

TABLE 1  
Analytical Parameters  
Groundwater Investigation, Former General Latex and Chemical Corporation Site, Ashland, Ohio

| Parameter                        | Method  | Laboratory |
|----------------------------------|---------|------------|
| Volatile Organic Compounds (VOC) | SW8260B | MCBM       |

The sample delivery group was assessed by reviewing the following: (1) the chain of custody documentation; (2) holding-time compliance; (3) initial and continuing calibration criteria; (4) method blanks/field blanks; (5) laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries; (6) matrix spike/matrix spike duplicate (MS/MSD) recoveries; (7) surrogate spike recoveries; (8) FD precision; (9) internal standard recoveries; and, (10) the required quality control (QC) samples at the specified frequencies.

Data flags were assigned according to the QAPP. Multiple flags are routinely applied to specific sample method/matrix/analyte combinations, but there will only be one final flag. A final flag is applied to the data and is the most conservative of the applied validation flags. The final flag also includes matrix and blank sample impacts.

The data flags are those listed in the QAPP and are defined below:

- J = The identification of the analyte was acceptable, but the quality assurance criteria indicate that the quantitative values may be outside the normal expected range of precision (i.e. the quantitative value is considered estimated).
- R = The result was rejected. This flag denotes the failure of quality control criteria such that it cannot be determined if the analyte is present or absent in the sample.
- U = The analyte was analyzed for but not detected.
- UJ = The analyte was not detected. However, the reported detection limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

## Findings

The overall summaries of the data validation are contained in the following sections. No data required qualification due to this assessment.

### Holding Time/Preservation

All acceptance criteria were met.

### Calibration

Initial and continuing calibration analyses were performed as required and all acceptance criteria.

### Method Blanks

Method blanks were analyzed at the required frequency and were free of contamination.

### Field Blanks

A TB was collected, analyzed and was free of contamination.

### Laboratory Control Samples

LCS/LCSDs were analyzed as required and all accuracy and precision criteria were met.

### Matrix Spike

MS/MSD samples were analyzed as required and all accuracy and precision criteria were met.

### Internal Standards

All internal standard acceptance criteria were met.

## Surrogates

All surrogate acceptance criteria were met.

## Field Duplicates

FDs were collected at the required frequency, analyzed and all precision criteria were met.

## Chain of Custody

Required procedures were followed and were free of errors.

## Overall Assessment

The goal of this assessment is to demonstrate that a sufficient number of representative samples were collected and the resulting analytical data can be used to support the decision making process. The following summary highlights the PARCC findings for the above-defined events:

Precision of the data was verified through the review of the field and laboratory data quality indicators that include: FD, LCS/LCSD and MS/MSD RPDs. Precision was acceptable.

Accuracy of the data was verified through the review of the calibration data, LCS/LCSD, MS/MSD, internal standards and surrogate standard recoveries. Accuracy was acceptable.

Representativeness of the data was verified through the samples' collection, storage and preservation procedures, verification of holding-time compliance and the evaluation of method/field blank data. The laboratory did not note any issues related to sample preservation or storage of the samples. All samples were analyzed within the EPA-recommended holding time. The method blanks/field blanks were free of contamination.

Comparability of the data was verified through the use of standard EPA analytical procedures and standard units for reporting. Results obtained are comparable to industry standards in that the collection and analytical techniques followed approved, documented procedures.

Completeness is a measure of the number of valid measurements obtained in relation to the total number of measurements planned. Completeness is expressed as the percentage of valid or usable measurements compared to planned measurements. Valid data are defined as all data that are not rejected for project use. All data are considered valid. The completeness goal was met for all compounds.

# Attachment A

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| Samples Associated with DQE |             |           |
|-----------------------------|-------------|-----------|
| Field ID                    | Sample Date | QAQC Type |
| FD01-102511                 | 25-Oct-11   | FD        |
| FD02-102511                 | 25-Oct-11   | FD        |
| MW03GW1626-102511           | 25-Oct-11   | N         |
| MW07GW2030-102411           | 24-Oct-11   | N         |
| MW09GW1424-102511           | 25-Oct-11   | N         |
| MW10GW1732-102511           | 25-Oct-11   | N         |
| MW12GW1424-102511           | 25-Oct-11   | N         |
| MW16GW1020-102411           | 24-Oct-11   | N         |
| MW18GW3035-102411           | 24-Oct-11   | N         |
| MW19GW1828-102511           | 25-Oct-11   | N         |
| MW20GW2333-102511           | 25-Oct-11   | N         |
| MW21GW2434-102511           | 25-Oct-11   | N         |
| MW22GW2535-102511           | 25-Oct-11   | N         |
| MW23GW3040-102511           | 25-Oct-11   | N         |
| BMWGW1828-102411            | 24-Oct-11   | N         |
| TRIP BLANK-102511           | 25-Oct-11   | TB        |

Notes:

FD = field duplicate

N = normal sample

TB = trip blank