

**AP-2**

**MONITORING &  
CLOSURE REPORT**

**2012**



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805  
E-MAIL: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

---

**VIA: Federal Express**  
**Airbill No: 7990-1689-7465**

September 20, 2012

Mr. Glenn Von Gonten  
New Mexico Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

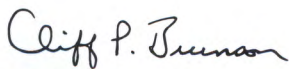
**SUBJECT: SUBMITTAL OF 2012 GROUNDWATER MONITORING CLOSURE REPORT,  
WESTGATE SUBDIVISION, GRIMES BATTERY AND TASKER ROAD, AP-2**

Dear Mr. Von Gonten:

On behalf of Shell Exploration and Production Company, BBC International, Inc. respectfully submits the above referenced report. The report details the groundwater monitoring activities for 2008 – 2012. Also included are summary data tables, original data, and our closure request.

If you have any questions, please contact me at (575) 397-6388 or via electronic mail:  
[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com).

Sincerely,

  
Cliff P. Brunson  
President

enclosure

cc: Lynn Walker, Shell E & P

---

# **WESTGATE SUBDIVISION**

## **GRIMES BATTERY & TASKER ROAD**

### **Groundwater Monitoring Closure Report**

**August 2012**

**SHELL EXPLORATION & PRODUCTION  
COMPANY  
HOUSTON, TEXAS**

**Prepared By:**

**BBC International, Inc.**  
World-Wide Environmental Specialists

---

# TABLE OF CONTENTS

|                   |                                                    |           |
|-------------------|----------------------------------------------------|-----------|
| <b>1.0</b>        | <b>INTRODUCTION.....</b>                           | <b>1</b>  |
| <b>2.0</b>        | <b>GROUNDWATER MONITORING ACTIVITIES .....</b>     | <b>1</b>  |
| 2.1               | Groundwater Depths .....                           | 2         |
|                   | Table 1 .....                                      | 2         |
|                   | Table 2 .....                                      | 4         |
|                   | Table 3 .....                                      | 6         |
|                   | Table 4 .....                                      | 8         |
|                   | Table 5 .....                                      | 10        |
| <b>3.0</b>        | <b>LABORATORY SAMPLING .....</b>                   | <b>11</b> |
|                   | Table 6 .....                                      | 12        |
|                   | Table 7 .....                                      | 20        |
|                   | Table 8 .....                                      | 28        |
|                   | Table 9 .....                                      | 36        |
|                   | Table 10 .....                                     | 42        |
| <b>4.0</b>        | <b>CONCLUSION .....</b>                            | <b>43</b> |
| <b>APPENDICES</b> |                                                    |           |
|                   | Appendix I: Trace Analysis, Inc., Results - 2008   |           |
|                   | Appendix II: Trace Analysis, Inc., Results - 2009  |           |
|                   | Appendix III: Trace Analysis, Inc., Results - 2010 |           |
|                   | Appendix IV: Trace Analysis, Inc., Results - 2011  |           |
|                   | Appendix V: Trace Analysis, Inc., Results - 2012   |           |
|                   | Figure 1: Site Monitor Well Diagram                |           |

---



## 1.0 INTRODUCTION

The subject site is located in west Hobbs, New Mexico. Assessment activities (Stage 1 Abatement activities) were conducted on developed and undeveloped property bordered by Tasker Road to the east, the Los Cuatro, Inc. property to the west, Sanger Road to the south, and Princess Jeanne Drive to the North. Assessment activities also included undeveloped property extending approximately 400 feet west of Cobb Drive. Based on the results of the assessment activities (both Stage 1 and Stage 2 Abatement activities), quarterly groundwater monitoring and remediation activities have been performed since 1998.

The Grimes Lease is an oil production property that was in operation since the late 1920's. It consisted of producing and injection wells, tank batteries, and associated flow lines. Oil and saltwater were produced from the wells on this lease and transported by flow lines to the Grimes Battery. Prior to decommissioning of the Grimes Battery in 1993, produced oil from the battery was transported south in a pipeline owned by Shell Pipeline (currently known as Equilon Pipeline). The pipeline is decommissioned and terminates at the former battery location.

Per NMOCD requirements, there were sixteen groundwater monitoring wells in the Westgate Subdivision that were being monitored quarterly for BTEX using USEPA Method 8260-B and annually for PAHs using USEPA Method 8270-C. In 2002, five monitor wells (TMW-1 through TMW-5) were plugged and abandoned per NMOCD approval.

This report addresses the last several years of monitoring activities when significant changes started to occur at the site. All other activities and results are documented in previously submitted reports.

The purpose of this report is to present laboratory data that supports the closing of the groundwater monitoring activities at the Westgate site.

## 2.0 GROUNDWATER MONITORING ACTIVITIES

Eleven monitoring wells have been gauged and sampled during each calendar year since the five site wells of the original 16 were plugged and abandoned in 2002. Historically, three of the remaining eleven wells have had measurable free product hydrocarbons detected in them. These monitor wells are GMW-1, GMW-3B, and GMW-5. A site diagram is located in [Figure 1](#).

Each quarter, all monitor wells were measured from the top of the casing for depth to groundwater, depth to LNAPL, LNAPL thickness, and corrected groundwater elevations prior to sampling.

From 1998 through 2007, a passive hydrocarbon recovery system utilizing Soak Ease absorbent socks was used to capture the free hydrocarbons in monitoring wells, GMW-1, GMW-3B, and GMW-5. The use of the absorbent socks was stopped in 2007, as they were no longer recovering any hydrocarbons. Historically, GMW-5 was the monitoring well that had the most measurable free product of the three wells.

## 2.1 GROUNDWATER DEPTHS

In 2008, the depth to water was noticeably dropping in the monitor wells. Around the Hobbs area, it was noticed that the water table was dropping due to the start of drought conditions and the increase of water usage. In the second quarter of 2008, the first monitor well that was gauged dry was GMW-7.

Starting in the third quarter of 2008, GMW-1 and GMW-3B went dry and in the fourth quarter GMW-2 went dry for a total of four monitor wells that became dry by the end of 2008.

These four wells have stayed dry to date. During gauging events, some of the other wells indicated the presence of water, but the water column was so minimal that there was not enough water to purge and sample those wells at times. The well gauging information for the years 2008 – 2012 are summarized in [Tables 1 – 5](#).

Based on the original depths of the monitoring wells, it appears that there are some possible contributing factors that may be affecting some of them.

These potential factors include the lowering of the water table, sand and silt filling the well pipe, and sand and silt or biological matter plugging the well screen slots on the PVC pipe thus preventing formation water inflow.

In addition, multiple efforts were made to investigate and rehabilitate these wells to get water inflow. Surge block well development procedures were tried as well as the use of fishing tools to determine if physical obstructions could be recovered if any existed. Also, a well swabbing brush was used in the attempt to clear and clean the PVC well screen slots to allow for water inflow. These efforts did not produce any positive results.

**Table 1. 1st Quarter 2008 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE      | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|-----------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 3/20/2008 | 71.95                | 71.94          | 0.01            | 3575.90               |
| GMW-2           | 3648.51       | 3/20/2008 | 71.06                | ND             | 0.00            | 3577.45               |
| GMW-3B          | 3648.26       | 3/20/2008 | 71.04                | 71.03          | 0.01            | 3577.23               |
| GMW-4           | 3647.79       | 3/20/2008 | 70.76                | ND             | 0.00            | 3577.03               |
| GMW-5           | 3648.41       | 3/20/2008 | 72.39                | 72.38          | 0.01            | 3576.02               |
| GMW-6           | 3648.22       | 3/20/2008 | 71.96                | ND             | 0.00            | 3576.26               |
| GMW-7           | 3644.98       | 3/20/2008 | 72.39                | ND             | 0.00            | 3572.59               |
| GMW-8           | 3645.66       | 3/20/2008 | 73.02                | ND             | 0.00            | 3572.64               |
| GMW-9           | 3646.27       | 3/20/2008 | 72.67                | ND             | 0.00            | 3573.60               |
| GMW-10          | 3645.65       | 3/20/2008 | 70.48                | ND             | 0.00            | 3575.17               |
| GMW-11          | 3644.07       | 3/20/2008 | 70.76                | ND             | 0.00            | 3573.31               |

**Table 1. 2nd Quarter 2008 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE      | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|-----------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 6/26/2008 | 71.94                | 71.93          | 0.01            | 3575.91               |
| GMW-2           | 3648.51       | 6/26/2008 | 71.12                | ND             | 0.00            | 3577.39               |
| GMW-3B          | 3648.26       | 6/26/2008 | 71.03                | 71.02          | 0.01            | 3577.23               |
| GMW-4           | 3647.79       | 6/26/2008 | 70.73                | ND             | 0.00            | 3579.89               |
| GMW-5           | 3648.41       | 6/26/2008 | 72.38                | 72.36          | 0.02            | 3576.03               |
| GMW-6           | 3648.22       | 6/26/2008 | 71.93                | ND             | 0.00            | 3579.17               |
| GMW-7           | 3644.98       | 6/26/2008 | Dry                  | ND             | 0.00            | 3644.98               |
| GMW-8           | 3645.66       | 6/26/2008 | 73.10                | ND             | 0.00            | 3572.56               |
| GMW-9           | 3646.27       | 6/26/2008 | 72.75                | ND             | 0.00            | 3573.52               |
| GMW-10          | 3645.65       | 6/26/2008 | 70.53                | ND             | 0.00            | 3575.12               |
| GMW-11          | 3644.07       | 6/26/2008 | 70.73                | ND             | 0.00            | 3576.08               |

**Table 1. 3rd Quarter 2008 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE      | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|-----------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 10/9/2008 | -                    | ND             | 0.00            | -                     |
| GMW-2           | 3648.51       | 10/9/2008 | 71.21                | ND             | 0.00            | 3577.30               |
| GMW-3B          | 3648.26       | 10/9/2008 | -                    | -              | 0.00            | -                     |
| GMW-4           | 3647.79       | 10/9/2008 | 70.74                | ND             | 0.00            | 3577.05               |
| GMW-5           | 3648.41       | 10/9/2008 | 72.52                | ND             | 0.00            | 3575.89               |
| GMW-6           | 3648.22       | 10/9/2008 | 72.10                | ND             | 0.00            | 3576.12               |
| GMW-7           | 3644.98       | 10/9/2008 | Dry                  | ND             | 0.00            | -                     |
| GMW-8           | 3645.66       | 10/9/2008 | 73.18                | ND             | 0.00            | 3572.48               |
| GMW-9           | 3646.27       | 10/9/2008 | 72.82                | ND             | 0.00            | 3573.45               |
| GMW-10          | 3645.65       | 10/9/2008 | 70.64                | ND             | 0.00            | 3575.01               |
| GMW-11          | 3644.07       | 10/9/2008 | 70.81                | ND             | 0.00            | 3573.26               |

**Table 1. 4th Quarter 2008 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE       | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|------------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 12/19/2008 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-2           | 3648.51       | 12/19/2008 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-3B          | 3648.26       | 12/19/2008 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-4           | 3647.79       | 12/19/2008 | 71.00                | ND             | 0.00            | 3576.79               |
| GMW-5           | 3648.41       | 12/19/2008 | 72.65                | ND             | 0.00            | 3575.76               |
| GMW-6           | 3648.22       | 12/19/2008 | 72.22                | ND             | 0.00            | 3576.00               |
| GMW-7           | 3644.98       | 12/19/2008 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-8           | 3645.66       | 12/19/2008 | 73.25                | ND             | 0.00            | 3572.41               |
| GMW-9           | 3646.27       | 12/19/2008 | 72.82                | ND             | 0.00            | 3573.45               |
| GMW-10          | 3645.65       | 12/19/2008 | 70.73                | ND             | 0.00            | 3574.92               |
| GMW-11          | 3644.07       | 12/19/2008 | 71.03                | ND             | 0.00            | 3573.04               |

**Table 2. 1st Quarter 2009 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE      | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|-----------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 3/25/2009 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-2           | 3648.51       | 3/25/2009 | 71.39                | ND             | 0.00            | 3577.12               |
| GMW-3B          | 3648.26       | 3/25/2009 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-4           | 3647.79       | 3/25/2009 | 71.08                | ND             | 0.00            | 3576.71               |
| GMW-5           | 3648.41       | 3/25/2009 | 72.67                | 72.66          | 0.01            | 3575.74               |
| GMW-6           | 3648.22       | 3/25/2009 | 72.31                | ND             | 0.00            | 3575.91               |
| GMW-7           | 3644.98       | 3/25/2009 | Dry                  | ND             | 0.00            | Dry                   |
| GMW-8           | 3645.66       | 3/25/2009 | 73.37                | ND             | 0.00            | 3572.29               |
| GMW-9           | 3646.27       | 3/25/2009 | 72.99                | ND             | 0.00            | 3573.28               |
| GMW-10          | 3645.65       | 3/25/2009 | 70.80                | ND             | 0.00            | 3574.85               |
| GMW-11          | 3644.07       | 3/25/2009 | 71.07                | ND             | 0.00            | 3573.00               |

**Table 2. 2nd Quarter 2009 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE      | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|-----------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 6/23/2009 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-2           | 3648.51       | 6/23/2009 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-3B          | 3648.26       | 6/23/2009 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-4           | 3647.79       | 6/23/2009 | 71.04                | ND             | 0.00            | 3579.89               |
| GMW-5           | 3648.41       | 6/23/2009 | 72.64                | 72.36          | 0.28            | 3575.77               |
| GMW-6           | 3648.22       | 6/23/2009 | 72.30                | ND             | 0.00            | 3579.17               |
| GMW-7           | 3644.98       | 6/23/2009 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-8           | 3645.66       | 6/23/2009 | 73.34                | ND             | 0.00            | 3572.32               |
| GMW-9           | 3646.27       | 6/23/2009 | 72.95                | ND             | 0.00            | 3573.32               |
| GMW-10          | 3645.65       | 6/23/2009 | 70.90                | ND             | 0.00            | 3574.75               |
| GMW-11          | 3644.07       | 6/23/2009 | 71.03                | ND             | 0.00            | 3576.08               |

**Table 2. 3rd Quarter 2009 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE      | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|-----------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 9/26/2009 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-2           | 3648.51       | 9/26/2009 | 71.39                | ND             | 0.00            | 3644.98               |
| GMW-3B          | 3648.26       | 9/26/2009 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-4           | 3647.79       | 9/26/2009 | 71.28                | ND             | 0.00            | 3576.51               |
| GMW-5           | 3648.41       | 9/26/2009 | 72.83                | ND             | 0.00            | 3575.58               |
| GMW-6           | 3648.22       | 9/26/2009 | 72.55                | ND             | 0.00            | 3575.67               |
| GMW-7           | 3644.98       | 9/26/2009 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-8           | 3645.66       | 9/26/2009 | 73.57                | ND             | 0.00            | 3572.09               |
| GMW-9           | 3646.27       | 9/26/2009 | 73.23                | ND             | 0.00            | 3573.04               |
| GMW-10          | 3645.65       | 9/26/2009 | 71.00                | ND             | 0.00            | 3574.65               |
| GMW-11          | 3644.07       | 9/26/2009 | 71.29                | ND             | 0.00            | 3572.78               |

**Table 2. 4th Quarter 2009 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE       | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|------------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 12/15/2009 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-2           | 3648.51       | 12/15/2009 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-3B          | 3648.26       | 12/15/2009 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-4           | 3647.79       | 12/15/2009 | 71.00                | ND             | 0.00            | 3576.79               |
| GMW-5           | 3648.41       | 12/15/2009 | 72.65                | ND             | 0.00            | 3575.76               |
| GMW-6           | 3648.22       | 12/15/2009 | 72.22                | ND             | 0.00            | 3576.00               |
| GMW-7           | 3644.98       | 12/15/2009 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-8           | 3645.66       | 12/15/2009 | 73.25                | ND             | 0.00            | 3572.41               |
| GMW-9           | 3646.27       | 12/15/2009 | 72.82                | ND             | 0.00            | 3573.45               |
| GMW-10          | 3645.65       | 12/15/2009 | 70.73                | ND             | 0.00            | 3574.92               |
| GMW-11          | 3644.07       | 12/15/2009 | 71.03                | ND             | 0.00            | 3573.04               |

**Table 3. 1st Quarter 2010 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE      | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|-----------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 3/17/2010 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-2           | 3648.51       | 3/17/2010 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-3B          | 3648.26       | 3/17/2010 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-4           | 3647.79       | 3/17/2010 | 71.51                | ND             | 0.00            | 3576.28               |
| GMW-5           | 3648.41       | 3/17/2010 | 73.00                | 72.66          | 0.34            | 3575.41               |
| GMW-6           | 3648.22       | 3/17/2010 | 71.74                | ND             | 0.00            | 3576.48               |
| GMW-7           | 3644.98       | 3/17/2010 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-8           | 3645.66       | 3/17/2010 | 73.76                | ND             | 0.00            | 3571.90               |
| GMW-9           | 3646.27       | 3/17/2010 | 73.39                | ND             | 0.00            | 3572.88               |
| GMW-10          | 3645.65       | 3/17/2010 | 71.23                | ND             | 0.00            | 3574.42               |
| GMW-11          | 3644.07       | 3/17/2010 | 71.47                | ND             | 0.00            | 3572.60               |

**Table 3. 2nd Quarter 2010 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE      | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|-----------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 6/28/2010 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-2           | 3648.51       | 6/28/2010 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-3B          | 3648.26       | 6/28/2010 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-4           | 3647.79       | 6/28/2010 | 71.29                | ND             | 0.00            | 3576.50               |
| GMW-5           | 3648.41       | 6/28/2010 | 72.82                | 72.36          | 0.46            | 3575.59               |
| GMW-6           | 3648.22       | 6/28/2010 | 72.57                | ND             | 0.00            | 3575.65               |
| GMW-7           | 3644.98       | 6/28/2010 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-8           | 3645.66       | 6/28/2010 | 74.00                | ND             | 0.00            | 3571.66               |
| GMW-9           | 3646.27       | 6/28/2010 | 73.60                | ND             | 0.00            | 3572.67               |
| GMW-10          | 3645.65       | 6/28/2010 | 71.40                | ND             | 0.00            | 3574.25               |
| GMW-11          | 3644.07       | 6/28/2010 | 71.32                | ND             | 0.00            | 3572.75               |

**Table 3. 3rd Quarter 2010 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE      | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|-----------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 9/23/2010 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-2           | 3648.51       | 9/23/2010 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-3B          | 3648.26       | 9/23/2010 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-4           | 3647.79       | 9/23/2010 | 71.27                | ND             | 0.00            | 3576.52               |
| GMW-5           | 3648.41       | 9/23/2010 | 72.78                | ND             | 0.00            | 3575.63               |
| GMW-6           | 3648.22       | 9/23/2010 | 72.55                | ND             | 0.00            | 3575.67               |
| GMW-7           | 3644.98       | 9/23/2010 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-8           | 3645.66       | 9/23/2010 | 74.00                | ND             | 0.00            | 3571.66               |
| GMW-9           | 3646.27       | 9/23/2010 | 73.58                | ND             | 0.00            | 3572.69               |
| GMW-10          | 3645.65       | 9/23/2010 | 71.38                | ND             | 0.00            | 3574.27               |
| GMW-11          | 3644.07       | 9/23/2010 | 71.30                | ND             | 0.00            | 3572.77               |

**Table 3. 4th Quarter 2010 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE       | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|------------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 12/28/2010 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-2           | 3648.51       | 12/28/2010 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-3B          | 3648.26       | 12/28/2010 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-4           | 3647.79       | 12/28/2010 | 71.80                | ND             | 0.00            | 3575.99               |
| GMW-5           | 3648.41       | 12/28/2010 | 73.05                | ND             | 0.00            | 3575.36               |
| GMW-6           | 3648.22       | 12/28/2010 | 73.05                | ND             | 0.00            | 3575.17               |
| GMW-7           | 3644.98       | 12/28/2010 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-8           | 3645.66       | 12/28/2010 | 74.07                | ND             | 0.00            | 3571.59               |
| GMW-9           | 3646.27       | 12/28/2010 | 73.60                | ND             | 0.00            | 3572.67               |
| GMW-10          | 3645.65       | 12/28/2010 | 71.48                | ND             | 0.00            | 3574.17               |
| GMW-11          | 3644.07       | 12/28/2010 | 71.80                | ND             | 0.00            | 3572.27               |



**Table 4. 1st Quarter 2011 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE      | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|-----------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 3/29/2011 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-2           | 3648.51       | 3/29/2011 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-3B          | 3648.26       | 3/29/2011 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-4           | 3647.79       | 3/29/2011 | 72.02                | ND             | 0.00            | 3575.77               |
| GMW-5           | 3648.41       | 3/29/2011 | 73.26                | ND             | 0.00            | 3575.15               |
| GMW-6           | 3648.22       | 3/29/2011 | 73.24                | ND             | 0.00            | 3574.98               |
| GMW-7           | 3644.98       | 3/29/2011 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-8           | 3645.66       | 3/29/2011 | 74.28                | ND             | 0.00            | 3571.38               |
| GMW-9           | 3646.27       | 3/29/2011 | 73.85                | ND             | 0.00            | 3572.42               |
| GMW-10          | 3645.65       | 3/29/2011 | 71.65                | ND             | 0.00            | 3574.00               |
| GMW-11          | 3644.07       | 3/29/2011 | 72.01                | ND             | 0.00            | 3572.06               |

**Table 4. 2nd Quarter 2011 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE      | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|-----------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 6/28/2011 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-2           | 3648.51       | 6/28/2011 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-3B          | 3648.26       | 6/28/2011 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-4           | 3647.79       | 6/28/2011 | 71.96                | ND             | 0.00            | 3575.83               |
| GMW-5           | 3648.41       | 6/28/2011 | 73.20                | ND             | 0.00            | 3575.21               |
| GMW-6           | 3648.22       | 6/28/2011 | 73.18                | ND             | 0.00            | 3575.04               |
| GMW-7           | 3644.98       | 6/28/2011 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-8           | 3645.66       | 6/28/2011 | 74.25                | ND             | 0.00            | 3571.41               |
| GMW-9           | 3646.27       | 6/28/2011 | 73.80                | ND             | 0.00            | 3572.47               |
| GMW-10          | 3645.65       | 6/28/2011 | 71.69                | ND             | 0.00            | 3573.96               |
| GMW-11          | 3644.07       | 6/28/2011 | 71.96                | ND             | 0.00            | 3572.11               |

**Table 4. 3rd Quarter 2011 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE      | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|-----------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 9/28/2011 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-2           | 3648.51       | 9/28/2011 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-3B          | 3648.26       | 9/28/2011 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-4           | 3647.79       | 9/28/2011 | 72.42                | ND             | 0.00            | 3575.37               |
| GMW-5           | 3648.41       | 9/28/2011 | 73.47                | ND             | 0.00            | 3574.94               |
| GMW-6           | 3648.22       | 9/28/2011 | 73.47                | ND             | 0.00            | 3574.75               |
| GMW-7           | 3644.98       | 9/28/2011 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-8           | 3645.66       | 9/28/2011 | 74.95                | ND             | 0.00            | 3570.71               |
| GMW-9           | 3646.27       | 9/28/2011 | 74.08                | ND             | 0.00            | 3572.19               |
| GMW-10          | 3645.65       | 9/28/2011 | 71.85                | ND             | 0.00            | 3573.80               |
| GMW-11          | 3644.07       | 9/28/2011 | 72.32                | ND             | 0.00            | 3571.75               |

**Table 4. 4th Quarter 2011 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE       | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|------------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 12/30/2011 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-2           | 3648.51       | 12/30/2011 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-3B          | 3648.26       | 12/30/2011 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-4           | 3647.79       | 12/30/2011 | 72.25                | ND             | 0.00            | 3575.54               |
| GMW-5           | 3648.41       | 12/30/2011 | 73.78                | ND             | 0.00            | 3574.63               |
| GMW-6           | 3648.22       | 12/30/2011 | 73.48                | ND             | 0.00            | 3574.74               |
| GMW-7           | 3644.98       | 12/30/2011 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-8           | 3645.66       | 12/30/2011 | 74.58                | ND             | 0.00            | 3571.08               |
| GMW-9           | 3646.27       | 12/30/2011 | 74.15                | ND             | 0.00            | 3572.12               |
| GMW-10          | 3645.65       | 12/30/2011 | 72.00                | ND             | 0.00            | 3573.65               |
| GMW-11          | 3644.07       | 12/30/2011 | 72.26                | ND             | 0.00            | 3571.81               |

**Table 5. 1st Quarter 2012 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE      | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|-----------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 3/23/2012 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-2           | 3648.51       | 3/23/2012 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-3B          | 3648.26       | 3/23/2012 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-4           | 3647.79       | 3/23/2012 | 72.35                | ND             | 0.00            | 3575.44               |
| GMW-5           | 3648.41       | 3/23/2012 | 73.94                | 73.93          | 0.01            | 3574.48               |
| GMW-6           | 3648.22       | 3/23/2012 | 73.80                | ND             | 0.00            | 3574.42               |
| GMW-7           | 3644.98       | 3/23/2012 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-8           | 3645.66       | 3/23/2012 | 74.60                | ND             | 0.00            | 3571.06               |
| GMW-9           | 3646.27       | 3/23/2012 | 74.28                | ND             | 0.00            | 3571.99               |
| GMW-10          | 3645.65       | 3/23/2012 | 72.09                | ND             | 0.00            | 3573.56               |
| GMW-11          | 3644.07       | 3/23/2012 | 72.38                | ND             | 0.00            | 3571.69               |

**Table 5. 2nd Quarter 2012 LNAPL and Groundwater Elevation  
Westgate Subdivision - Hobbs, NM**

| MONITORING WELL | TOP OF CASING | DATE      | DEPTH TO GROUNDWATER | DEPTH TO LNAPL | LNAPL THICKNESS | CORRECTED GROUNDWATER |
|-----------------|---------------|-----------|----------------------|----------------|-----------------|-----------------------|
| GMW-1           | 3647.84       | 6/20/2012 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-2           | 3648.51       | 6/20/2012 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-3B          | 3648.26       | 6/20/2012 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-4           | 3647.79       | 6/20/2012 | 72.53                | ND             | 0.00            | 3575.26               |
| GMW-5           | 3648.41       | 6/20/2012 | 74.04                | 74.03          | 0.01            | 3574.38               |
| GMW-6           | 3648.22       | 6/20/2012 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-7           | 3644.98       | 6/20/2012 | Dry                  | ND             | 0.00            | 0.00                  |
| GMW-8           | 3645.66       | 6/20/2012 | 74.85                | ND             | 0.00            | 3570.81               |
| GMW-9           | 3646.27       | 6/20/2012 | 74.44                | ND             | 0.00            | 3571.83               |
| GMW-10          | 3645.65       | 6/20/2012 | 72.25                | ND             | 0.00            | 3573.40               |
| GMW-11          | 3644.07       | 6/20/2012 | 72.59                | ND             | 0.00            | 3571.48               |

### 3.0 LABORATORY SAMPLING RESULTS

The groundwater monitoring wells have been gauged, purged, and sampled quarterly since 1998. The groundwater samples have been sent to Trace Analysis Laboratories in Lubbock, TX to be analyzed for BTEX (USEPA Method 8260-B) and PAHs (USEPA Method 8270-C).

The results per quarter per monitor well for the year 2008 through the second quarter of 2012 are summarized in [Tables 6 - 10](#). Laboratory analytical results, QA/QC, and chain-of-custody reports for the groundwater samples collected and analyzed are included in [Appendix I through Appendix V](#). All other groundwater data is located in the reports previously submitted to the NMOCD.

The laboratory results for the monitor wells GMW-2, GMW-4, GMW-6, GMW-7, GMW-8, GMW-9, GMW-10, and GMW-11 through the life of this project have shown non-detect for analyte concentrations as required by New Mexico Water Quality Control Commission (NMWQCC), Title 20, Chapter 6, part 2 (20 NMAC 6.2 Standards).

GMW-10 is the up gradient well and GMW-8 is the down gradient well with GMW-2, GMW-9, and GMW-11 being up side gradient wells and GMW-4, GMW-6, and GMW-7 being side down gradient wells. A drawing depicting the locations of the monitor wells is located in [Figure 1](#).

Per discussions with the NMOCD in early 2000 it was agreed that Shell would not be required to sample any monitor wells that have free product until such time that free product is no longer detected in the wells. These wells would only be sampled when no measurable free product exists.

In the third quarter of 2008, GMW-5 was sampled for the first time as no free product was detected during the gauging event. The well was analyzed for BTEX and the results were non-detect. This well was again sampled in the fourth quarter of 2008 for both BTEX and PAH and only Toluene was detected, but it was below the NM WQCC standard.

In 2009, 2010, 2011, and 2012, GMW-5 was gauged quarterly and would periodically indicate a free phase hydrocarbon detection on the probe and then at other times, it would not.

Reviewing the laboratory results over the quarters that GMW-5 was sampled and the results showing non-detect, it may be that the probe detection is not actually reflecting crude oil hydrocarbons but some other anomaly such as biological matter that is being interpreted by the probe as something other than water.

**Table 6. 1<sup>st</sup> & 2<sup>nd</sup> Quarter 2008 Sampling Reports**

**Grimes Monitor Wells - Westgate Subdivision**  
**BTEX**

**GMW-2**

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                    |            |             |                 | <u>2<sup>nd</sup> Quarter</u>                    |            |             |                 |
|--------------|--------|--------------|--------------------------------------------------|------------|-------------|-----------------|--------------------------------------------------|------------|-------------|-----------------|
|              |        |              | Work Order Number: 8032404<br>Method Taken: 8260 |            |             |                 | Work Order Number: 8063024<br>Method Taken: 8260 |            |             |                 |
|              |        |              | Sample No.                                       | Date Taken | <u>µg/L</u> |                 | Sample No.                                       | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                                  |            | Result      | Detection Limit |                                                  |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      | 154417                                           | 3/20/08    | <1.00       | 1               | 165218                                           | 6/26/08    | <1.00       | 1.00            |
| Toluene      | Water  | S-8260B      | 154417                                           | 3/20/08    | <1.00       | 1               | 165218                                           | 6/26/08    | <1.00       | 1.00            |
| Ethylbenzene | Water  | S-8260B      | 154417                                           | 3/20/08    | <1.00       | 1               | 165218                                           | 6/26/08    | <1.00       | 1.00            |
| M,p-Xylene   | Water  | S-8260B      | 154417                                           | 3/20/08    | <1.00       | 1               | 165218                                           | 6/26/08    | <1.00       | 1.00            |
| o-Xylene     | Water  | S-8260B      | 154417                                           | 3/20/08    | <1.00       | 1               | 165218                                           | 6/26/08    | <1.00       | 1.00            |

**GMW-7**

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                    |            |             |                 | <u>2<sup>nd</sup> Quarter</u>                    |            |             |                 |
|--------------|--------|--------------|--------------------------------------------------|------------|-------------|-----------------|--------------------------------------------------|------------|-------------|-----------------|
|              |        |              | Work Order Number: 8032404<br>Method Taken: 8260 |            |             |                 | Work Order Number: 8063024<br>Method Taken: 8260 |            |             |                 |
|              |        |              | Sample No.                                       | Date Taken | <u>µg/L</u> |                 | Sample No.                                       | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                                  |            | Result      | Detection Limit |                                                  |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      | 154419                                           | 3/20/08    | <1.00       | 1               | 165218                                           | 6/26/08    | <1.00       | 1.00            |
| Toluene      | Water  | S-8260B      | 154419                                           | 3/20/08    | <1.00       | 1               | 165218                                           | 6/26/08    | <1.00       | 1.00            |
| Ethylbenzene | Water  | S-8260B      | 154419                                           | 3/20/08    | <1.00       | 1               | 165218                                           | 6/26/08    | <1.00       | 1.00            |
| M,p-Xylene   | Water  | S-8260B      | 154419                                           | 3/20/08    | <1.00       | 1               | 165218                                           | 6/26/08    | <1.00       | 1.00            |
| o-Xylene     | Water  | S-8260B      | 154419                                           | 3/20/08    | <1.00       | 1               | 165218                                           | 6/26/08    | <1.00       | 1.00            |

**GMW-8**

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                    |            |             |                 | <u>2<sup>nd</sup> Quarter</u>                    |            |             |                 |
|--------------|--------|--------------|--------------------------------------------------|------------|-------------|-----------------|--------------------------------------------------|------------|-------------|-----------------|
|              |        |              | Work Order Number: 8032404<br>Method Taken: 8260 |            |             |                 | Work Order Number: 8063024<br>Method Taken: 8260 |            |             |                 |
|              |        |              | Sample No.                                       | Date Taken | <u>µg/L</u> |                 | Sample No.                                       | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                                  |            | Result      | Detection Limit |                                                  |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      | 154420                                           | 3/20/08    | <1.00       | 1               | 165220                                           | 6/26/08    | <1.00       | 1.00            |
| Toluene      | Water  | S-8260B      | 154420                                           | 3/20/08    | <1.00       | 1               | 165220                                           | 6/26/08    | <1.00       | 1.00            |
| Ethylbenzene | Water  | S-8260B      | 154420                                           | 3/20/08    | <1.00       | 1               | 165220                                           | 6/26/08    | <1.00       | 1.00            |
| M,p-Xylene   | Water  | S-8260B      | 154420                                           | 3/20/08    | <1.00       | 1               | 165220                                           | 6/26/08    | <1.00       | 1.00            |
| o-Xylene     | Water  | S-8260B      | 154420                                           | 3/20/08    | <1.00       | 1               | 165220                                           | 6/26/08    | <1.00       | 1.00            |

**GMW-9**

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                    |            |             |                 | <u>2<sup>nd</sup> Quarter</u>                    |            |             |                 |
|--------------|--------|--------------|--------------------------------------------------|------------|-------------|-----------------|--------------------------------------------------|------------|-------------|-----------------|
|              |        |              | Work Order Number: 8032404<br>Method Taken: 8260 |            |             |                 | Work Order Number: 8063024<br>Method Taken: 8260 |            |             |                 |
|              |        |              | Sample No.                                       | Date Taken | <u>µg/L</u> |                 | Sample No.                                       | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                                  |            | Result      | Detection Limit |                                                  |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      | 154421                                           | 3/20/08    | <1.00       | 1               | 165221                                           | 6/26/08    | <1.00       | 1.00            |
| Toluene      | Water  | S-8260B      | 154421                                           | 3/20/08    | <1.00       | 1               | 165221                                           | 6/26/08    | <1.00       | 1.00            |
| Ethylbenzene | Water  | S-8260B      | 154421                                           | 3/20/08    | <1.00       | 1               | 165221                                           | 6/26/08    | <1.00       | 1.00            |
| M,p-Xylene   | Water  | S-8260B      | 154421                                           | 3/20/08    | <1.00       | 1               | 165221                                           | 6/26/08    | <1.00       | 1.00            |
| o-Xylene     | Water  | S-8260B      | 154421                                           | 3/20/08    | <1.00       | 1               | 165221                                           | 6/26/08    | <1.00       | 1.00            |

## GMW-10

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                    |            |             |                 | <u>2<sup>nd</sup> Quarter</u>                    |            |             |                 |
|--------------|--------|--------------|--------------------------------------------------|------------|-------------|-----------------|--------------------------------------------------|------------|-------------|-----------------|
|              |        |              | Work Order Number: 8032404<br>Method Taken: 8260 |            |             |                 | Work Order Number: 8063024<br>Method Taken: 8260 |            |             |                 |
|              |        |              | Sample No.                                       | Date Taken | <u>µg/L</u> |                 | Sample No.                                       | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                                  |            | Result      | Detection Limit |                                                  |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      | 154418                                           | 3/20/08    | <1.00       | 1               | 165219                                           | 6/26/08    | <1.00       | 1.00            |
| Toluene      | Water  | S-8260B      | 154418                                           | 3/20/08    | <1.00       | 1               | 165219                                           | 6/26/08    | <1.00       | 1.00            |
| Ethylbenzene | Water  | S-8260B      | 154418                                           | 3/20/08    | <1.00       | 1               | 165219                                           | 6/26/08    | <1.00       | 1.00            |
| M,p-Xylene   | Water  | S-8260B      | 154418                                           | 3/20/08    | <1.00       | 1               | 165219                                           | 6/26/08    | <1.00       | 1.00            |
| o-Xylene     | Water  | S-8260B      | 154418                                           | 3/20/08    | <1.00       | 1               | 165219                                           | 6/26/08    | <1.00       | 1.00            |

**Table 6. 3<sup>rd</sup> & 4<sup>th</sup> Quarter 2008 Sampling Reports**

**Grimes Monitor Wells - Westgate Subdivision  
BTEX: S-8260B Method and PAH: S-8270C**

## GMW-2

| Analyte      | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u> |            |             |                 | <u>4<sup>th</sup> Quarter</u> |            |             |                 |
|--------------|--------|--------------|-------------------------------|------------|-------------|-----------------|-------------------------------|------------|-------------|-----------------|
|              |        |              | Work Order Number: 8101318    |            |             |                 | Work Order Number: 8122321    |            |             |                 |
|              |        |              | Sample No.                    | Date Taken | <u>µg/L</u> |                 | Sample No.                    | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      | 176317                        | 10/9/08    | <5.00       | 1               |                               |            |             |                 |
| Toluene      | Water  | S-8260B      | 176317                        | 10/9/08    | <5.00       | 1               |                               |            |             |                 |
| Ethylbenzene | Water  | S-8260B      | 176317                        | 10/9/08    | <5.00       | 1               |                               |            |             |                 |
| M,p-Xylene   | Water  | S-8260B      | 176317                        | 10/9/08    | <5.00       | 1               |                               |            |             |                 |
| o-Xylene     | Water  | S-8260B      | 176317                        | 10/9/08    | <5.00       | 1               |                               |            |             |                 |

## GMW-8

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u> |            |        |                 | <u>4<sup>th</sup> Quarter</u> |            |           |                 |
|------------------------|--------|--------------|-------------------------------|------------|--------|-----------------|-------------------------------|------------|-----------|-----------------|
|                        |        |              | Work Order Number: 8101318    |            |        |                 | Work Order Number: 8122321    |            |           |                 |
|                        |        |              | Sample No.                    | Date Taken | µg/L   |                 | Sample No.                    | Date Taken | µg/L      |                 |
|                        |        |              |                               |            | Result | Detection Limit |                               |            | Result    | Detection Limit |
| Benzene                | Water  | S-8260B      | 176319                        | 10/9/08    | <1.00  | 1               | 183422                        | 12/19/08   | <1.00     | 1.00            |
| Toluene                | Water  | S-8260B      | 176319                        | 10/9/08    | <1.00  | 1               | 183422                        | 12/19/08   | <1.00     | 1.00            |
| Ethylbenzene           | Water  | S-8260B      | 176319                        | 10/9/08    | <1.00  | 1               | 183422                        | 12/19/08   | <1.00     | 1.00            |
| M,p-Xylene             | Water  | S-8260B      | 176319                        | 10/9/08    | <1.00  | 1               | 183422                        | 12/19/08   | <1.00     | 1.00            |
| o-Xylene               | Water  | S-8260B      | 176319                        | 10/9/08    | <1.00  | 1               | 183422                        | 12/19/08   | <1.00     | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                    | Date Taken | mg/L   |                 | Sample No.                    | Date Taken | mg/L      |                 |
|                        |        |              |                               |            | Result | Detection Limit |                               |            | Result    | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | 0.000653  | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| Fluorene               | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| Anthracene             | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| Chrysene               | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| Indeno[1,2-3-cd]pyrene | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                               |            |        |                 | 183422                        | 12/19/08   | <0.000184 | 0.000200        |

## GMW-9

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u> |            |        |                 | <u>4<sup>th</sup> Quarter</u> |            |           |                 |
|------------------------|--------|--------------|-------------------------------|------------|--------|-----------------|-------------------------------|------------|-----------|-----------------|
|                        |        |              | Work Order Number: 8101318    |            |        |                 | Work Order Number: 8122321    |            |           |                 |
|                        |        |              | Sample No.                    | Date Taken | µg/L   |                 | Sample No.                    | Date Taken | µg/L      |                 |
|                        |        |              |                               |            | Result | Detection Limit |                               |            | Result    | Detection Limit |
| Benzene                | Water  | S-8260B      | 176320                        | 10/9/08    | <1.00  | 1               | 183421                        | 12/19/08   | <1.00     | 1.00            |
| Toluene                | Water  | S-8260B      | 176320                        | 10/9/08    | <1.00  | 1               | 183421                        | 12/19/08   | <1.00     | 1.00            |
| Ethylbenzene           | Water  | S-8260B      | 176320                        | 10/9/08    | <1.00  | 1               | 183421                        | 12/19/08   | <1.00     | 1.00            |
| M,p-Xylene             | Water  | S-8260B      | 176320                        | 10/9/08    | <1.00  | 1               | 183421                        | 12/19/08   | <1.00     | 1.00            |
| o-Xylene               | Water  | S-8260B      | 176320                        | 10/9/08    | <1.00  | 1               | 183421                        | 12/19/08   | <1.00     | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                    | Date Taken | mg/L   |                 | Sample No.                    | Date Taken | mg/L      |                 |
|                        |        |              |                               |            | Result | Detection Limit |                               |            | Result    | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                               |            |        |                 |                               |            |           |                 |
| 1-Methylnaphthalene    | Water  | S-8270C      |                               |            |        |                 |                               |            |           |                 |
| Acenaphthylene         | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |
| Fluorene               | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |
| Anthracene             | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |
| Chrysene               | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                               |            |        |                 | 183421                        | 12/19/08   | <0.000186 | 0.000200        |



## GMW-10

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u> |            |        |                 | <u>4<sup>th</sup> Quarter</u> |            |           |                 |
|------------------------|--------|--------------|-------------------------------|------------|--------|-----------------|-------------------------------|------------|-----------|-----------------|
|                        |        |              | Work Order Number: 8101318    |            |        |                 | Work Order Number: 8122321    |            |           |                 |
|                        |        |              | Sample No.                    | Date Taken | µg/L   |                 | Sample No.                    | Date Taken | µg/L      |                 |
|                        |        |              |                               |            | Result | Detection Limit |                               |            | Result    | Detection Limit |
| Benzene                | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00  | 1               | 183420                        | 12/19/08   | <1.00     | 1.00            |
| Toluene                | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00  | 1               | 183420                        | 12/19/08   | <1.00     | 1.00            |
| Ethylbenzene           | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00  | 1               | 183420                        | 12/19/08   | <1.00     | 1.00            |
| M,p-Xylene             | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00  | 1               | 183420                        | 12/19/08   | <1.00     | 1.00            |
| o-Xylene               | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00  | 1               | 183420                        | 12/19/08   | <1.00     | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                    | Date Taken | mg/L   |                 | Sample No.                    | Date Taken | mg/L      |                 |
|                        |        |              |                               |            | Result | Detection Limit |                               |            | Result    | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| Fluorene               | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| Anthracene             | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| Chrysene               | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                               |            |        |                 | 183420                        | 12/19/08   | <0.000184 | 0.000200        |

## GMW-4

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u> |            |        |                 | <u>4<sup>th</sup> Quarter</u> |            |           |                 |
|------------------------|--------|--------------|-------------------------------|------------|--------|-----------------|-------------------------------|------------|-----------|-----------------|
|                        |        |              | Work Order Number: 8101318    |            |        |                 | Work Order Number: 8122321    |            |           |                 |
|                        |        |              | Sample No.                    | Date Taken | µg/L   |                 | Sample No.                    | Date Taken | µg/L      |                 |
|                        |        |              |                               |            | Result | Detection Limit |                               |            | Result    | Detection Limit |
| Benzene                | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00  | 1               | 183423                        | 12/19/08   | <1.00     | 1.00            |
| Toluene                | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00  | 1               | 183423                        | 12/19/08   | <1.00     | 1.00            |
| Ethylbenzene           | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00  | 1               | 183423                        | 12/19/08   | <1.00     | 1.00            |
| M,p-Xylene             | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00  | 1               | 183423                        | 12/19/08   | <1.00     | 1.00            |
| o-Xylene               | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00  | 1               | 183423                        | 12/19/08   | <1.00     | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                    | Date Taken | mg/L   |                 | Sample No.                    | Date Taken | mg/L      |                 |
|                        |        |              |                               |            | Result | Detection Limit |                               |            | Result    | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| Fluorene               | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| Anthracene             | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| Chrysene               | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                               |            |        |                 | 183423                        | 12/19/08   | <0.000185 | 0.000200        |

## GMW-6

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u> |            |             |                 | <u>4<sup>th</sup> Quarter</u> |            |             |                 |
|------------------------|--------|--------------|-------------------------------|------------|-------------|-----------------|-------------------------------|------------|-------------|-----------------|
|                        |        |              | Work Order Number: 8101318    |            |             |                 | Work Order Number: 8122321    |            |             |                 |
|                        |        |              | Sample No.                    | Date Taken | <u>µg/L</u> |                 | Sample No.                    | Date Taken | <u>µg/L</u> |                 |
|                        |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Benzene                | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00       | 1               | 183424                        | 12/19/08   | <1.00       | 1.00            |
| Toluene                | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00       | 1               | 183424                        | 12/19/08   | <1.00       | 1.00            |
| Ethylbenzene           | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00       | 1               | 183424                        | 12/19/08   | <1.00       | 1.00            |
| M,p-Xylene             | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00       | 1               | 183424                        | 12/19/08   | <1.00       | 1.00            |
| o-Xylene               | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00       | 1               | 183424                        | 12/19/08   | <1.00       | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                    | Date Taken | <u>mg/L</u> |                 | Sample No.                    | Date Taken | <u>mg/L</u> |                 |
|                        |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| Fluorene               | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| Anthracene             | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| Chrysene               | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                               |            |             |                 | 183424                        | 12/19/08   | <0.000200   | 0.000200        |

## GMW-11

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u> |            |        |                 | <u>4<sup>th</sup> Quarter</u> |            |           |                 |
|------------------------|--------|--------------|-------------------------------|------------|--------|-----------------|-------------------------------|------------|-----------|-----------------|
|                        |        |              | Work Order Number: 8101318    |            |        |                 | Work Order Number: 8122321    |            |           |                 |
|                        |        |              | Sample No.                    | Date Taken | µg/L   |                 | Sample No.                    | Date Taken | µg/L      |                 |
|                        |        |              |                               |            | Result | Detection Limit |                               |            | Result    | Detection Limit |
| Benzene                | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00  | 1               | 183425                        | 12/19/08   | <1.00     | 1.00            |
| Toluene                | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00  | 1               | 183425                        | 12/19/08   | <1.00     | 1.00            |
| Ethylbenzene           | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00  | 1               | 183425                        | 12/19/08   | <1.00     | 1.00            |
| M,p-Xylene             | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00  | 1               | 183425                        | 12/19/08   | <1.00     | 1.00            |
| o-Xylene               | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00  | 1               | 183425                        | 12/19/08   | <1.00     | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                    | Date Taken | mg/L   |                 | Sample No.                    | Date Taken | mg/L      |                 |
|                        |        |              |                               |            | Result | Detection Limit |                               |            | Result    | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | <0.000184 | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | <0.000184 | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | <0.000184 | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | <0.000184 | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | <0.000184 | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | <0.000184 | 0.000200        |
| Fluorene               | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | <0.000184 | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | 0.000333  | 0.000200        |
| Anthracene             | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | <0.000184 | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | 0.000192  | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | 0.000326  | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | <0.000184 | 0.000200        |
| Chrysene               | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | <0.000184 | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | <0.000184 | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | <0.000184 | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | <0.000184 | 0.000200        |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | 0.000589  | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | <0.000184 | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                               |            |        |                 | 183425                        | 12/19/08   | <0.000184 | 0.000200        |

## GMW-5

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u> |            |             |                 | <u>4<sup>th</sup> Quarter</u> |            |             |                 |
|------------------------|--------|--------------|-------------------------------|------------|-------------|-----------------|-------------------------------|------------|-------------|-----------------|
|                        |        |              | Work Order Number: 8101318    |            |             |                 | Work Order Number: 8122321    |            |             |                 |
|                        |        |              | Sample No.                    | Date Taken | <u>µg/L</u> |                 | Sample No.                    | Date Taken | <u>µg/L</u> |                 |
|                        |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Benzene                | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00       | 1               | 183426                        | 12/19/08   | <1.00       | 1.00            |
| Toluene                | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00       | 1               | 183426                        | 12/19/08   | 4.27        | 1.00            |
| Ethylbenzene           | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00       | 1               | 183426                        | 12/19/08   | <1.00       | 1.00            |
| M,p-Xylene             | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00       | 1               | 183426                        | 12/19/08   | <1.00       | 1.00            |
| o-Xylene               | Water  | S-8260B      | 176318                        | 10/9/08    | <1.00       | 1               | 183426                        | 12/19/08   | <1.00       | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                    | Date Taken | <u>mg/L</u> |                 | Sample No.                    | Date Taken | <u>mg/L</u> |                 |
|                        |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| Fluorene               | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| Anthracene             | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| Chrysene               | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                               |            |             |                 | 183426                        | 12/19/08   | <0.000184   | 0.000200        |

**Table 7. 1<sup>st</sup> & 2<sup>nd</sup> Quarter 2009 Sampling Reports**

### Grimes Monitor Wells - Westgate Subdivision BTEX

## GMW-2

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                    |            |             |                 | <u>2<sup>nd</sup> Quarter</u>            |            |             |                 |
|--------------|--------|--------------|--------------------------------------------------|------------|-------------|-----------------|------------------------------------------|------------|-------------|-----------------|
|              |        |              | Work Order Number: 9032716<br>Method Taken: 8260 |            |             |                 | Work Order Number:<br>Method Taken: 8260 |            |             |                 |
|              |        |              | Sample No.                                       | Date Taken | <u>µg/L</u> |                 | Sample No.                               | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                                  |            | Result      | Detection Limit |                                          |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      | 191467                                           | 3/25/09    | <1.00       | 1               |                                          |            |             |                 |
| Toluene      | Water  | S-8260B      | 191467                                           | 3/25/09    | <1.00       | 1               |                                          |            |             |                 |
| Ethylbenzene | Water  | S-8260B      | 191467                                           | 3/25/09    | <1.00       | 1               |                                          |            |             |                 |
| M,p-Xylene   | Water  | S-8260B      | 191467                                           | 3/25/09    | <1.00       | 1               |                                          |            |             |                 |
| o-Xylene     | Water  | S-8260B      | 191467                                           | 3/25/09    | <1.00       | 1               |                                          |            |             |                 |

## GMW-8

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                    |            |                 |                 | <u>2<sup>nd</sup> Quarter</u>                    |            |                 |                 |
|--------------|--------|--------------|--------------------------------------------------|------------|-----------------|-----------------|--------------------------------------------------|------------|-----------------|-----------------|
|              |        |              | Work Order Number: 9032716<br>Method Taken: 8260 |            |                 |                 | Work Order Number: 9062530<br>Method Taken: 8260 |            |                 |                 |
|              |        |              | Sample No.                                       | Date Taken | $\mu\text{g/L}$ |                 | Sample No.                                       | Date Taken | $\mu\text{g/L}$ |                 |
|              |        |              |                                                  |            | Result          | Detection Limit |                                                  |            | Result          | Detection Limit |
| Benzene      | Water  | S-8260B      | 154420                                           | 3/25/09    | <1.00           | 1               | 200258                                           | 6/23/09    | <1.00           | 1.00            |
| Toluene      | Water  | S-8260B      | 154420                                           | 3/25/09    | <1.00           | 1               | 200258                                           | 6/23/09    | <1.00           | 1.00            |
| Ethylbenzene | Water  | S-8260B      | 154420                                           | 3/25/09    | <1.00           | 1               | 200258                                           | 6/23/09    | <1.00           | 1.00            |
| M,p-Xylene   | Water  | S-8260B      | 154420                                           | 3/25/09    | <1.00           | 1               | 200258                                           | 6/23/09    | <1.00           | 1.00            |
| o-Xylene     | Water  | S-8260B      | 154420                                           | 3/25/09    | <1.00           | 1               | 200258                                           | 6/23/09    | <1.00           | 1.00            |

## GMW-9

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                    |            |                 |                 | <u>2<sup>nd</sup> Quarter</u>                    |            |                 |                 |
|--------------|--------|--------------|--------------------------------------------------|------------|-----------------|-----------------|--------------------------------------------------|------------|-----------------|-----------------|
|              |        |              | Work Order Number: 9032716<br>Method Taken: 8260 |            |                 |                 | Work Order Number: 8063024<br>Method Taken: 8260 |            |                 |                 |
|              |        |              | Sample No.                                       | Date Taken | $\mu\text{g/L}$ |                 | Sample No.                                       | Date Taken | $\mu\text{g/L}$ |                 |
|              |        |              |                                                  |            | Result          | Detection Limit |                                                  |            | Result          | Detection Limit |
| Benzene      | Water  | S-8260B      | 191470                                           | 3/25/09    | <1.00           | 1               | 200258                                           | 6/23/09    | <1.00           | 1.00            |
| Toluene      | Water  | S-8260B      | 191470                                           | 3/25/09    | <1.00           | 1               | 200258                                           | 6/23/09    | <1.00           | 1.00            |
| Ethylbenzene | Water  | S-8260B      | 191470                                           | 3/25/09    | <1.00           | 1               | 200258                                           | 6/23/09    | <1.00           | 1.00            |
| M,p-Xylene   | Water  | S-8260B      | 191470                                           | 3/25/09    | <1.00           | 1               | 200258                                           | 6/23/09    | <1.00           | 1.00            |
| o-Xylene     | Water  | S-8260B      | 191470                                           | 3/25/09    | <1.00           | 1               | 200258                                           | 6/23/09    | <1.00           | 1.00            |

## GMW-10

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                    |            |                 |                 | <u>2<sup>nd</sup> Quarter</u>                    |            |                 |                 |
|--------------|--------|--------------|--------------------------------------------------|------------|-----------------|-----------------|--------------------------------------------------|------------|-----------------|-----------------|
|              |        |              | Work Order Number: 9032716<br>Method Taken: 8260 |            |                 |                 | Work Order Number: 8063024<br>Method Taken: 8260 |            |                 |                 |
|              |        |              | Sample No.                                       | Date Taken | $\mu\text{g/L}$ |                 | Sample No.                                       | Date Taken | $\mu\text{g/L}$ |                 |
|              |        |              |                                                  |            | Result          | Detection Limit |                                                  |            | Result          | Detection Limit |
| Benzene      | Water  | S-8260B      | 191468                                           | 3/25/09    | <1.00           | 1               | 200257                                           | 6/23/09    | <1.00           | 1.00            |
| Toluene      | Water  | S-8260B      | 191468                                           | 3/25/09    | <1.00           | 1               | 200257                                           | 6/23/09    | <1.00           | 1.00            |
| Ethylbenzene | Water  | S-8260B      | 191468                                           | 3/25/09    | <1.00           | 1               | 200257                                           | 6/23/09    | <1.00           | 1.00            |
| M,p-Xylene   | Water  | S-8260B      | 191468                                           | 3/25/09    | <1.00           | 1               | 200257                                           | 6/23/09    | <1.00           | 1.00            |
| o-Xylene     | Water  | S-8260B      | 191468                                           | 3/25/09    | <1.00           | 1               | 200257                                           | 6/23/09    | <1.00           | 1.00            |

**Table 7. 3<sup>rd</sup> & 4<sup>th</sup> Quarter 2009 Sampling Reports**

**Grimes Monitor Wells - Westgate Subdivision  
BTEX: S-8260B Method and PAH: S-8270C**

**MW-8**

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u> |            |        |                 | <u>4<sup>th</sup> Quarter</u> |            |           |                 |
|------------------------|--------|--------------|-------------------------------|------------|--------|-----------------|-------------------------------|------------|-----------|-----------------|
|                        |        |              | Work Order Number: 9100214    |            |        |                 | Work Order Number: 9121714    |            |           |                 |
|                        |        |              | Sample No.                    | Date Taken | µg/L   |                 | Sample No.                    | Date Taken | µg/L      |                 |
|                        |        |              |                               |            | Result | Detection Limit |                               |            | Result    | Detection Limit |
| Benzene                | Water  | S-8260B      | 211383                        | 9/26/09    | <1.00  | 1               | 217526                        | 12/15/09   | <1.00     | 1.00            |
| Toluene                | Water  | S-8260B      | 211383                        | 9/26/09    | <1.00  | 1               | 217526                        | 12/15/09   | <1.00     | 1.00            |
| Ethylbenzene           | Water  | S-8260B      | 211383                        | 9/26/09    | <1.00  | 1               | 217526                        | 12/15/09   | <1.00     | 1.00            |
| M,p-Xylene             | Water  | S-8260B      | 211383                        | 9/26/09    | <1.00  | 1               | 217526                        | 12/15/09   | <1.00     | 1.00            |
| o-Xylene               | Water  | S-8260B      | 211383                        | 9/26/09    | <1.00  | 1               | 217526                        | 12/15/09   | <1.00     | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                    | Date Taken | mg/L   |                 | Sample No.                    | Date Taken | mg/L      |                 |
|                        |        |              |                               |            | Result | Detection Limit |                               |            | Result    | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| Fluorene               | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| Anthracene             | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| Chrysene               | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| Indeno[1,2-3-cd]pyrene | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                               |            |        |                 | 217526                        | 12/15/09   | <0.000184 | 0.000200        |

**GMW-9**

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u> |            |        |                 | <u>4<sup>th</sup> Quarter</u> |            |           |                 |
|------------------------|--------|--------------|-------------------------------|------------|--------|-----------------|-------------------------------|------------|-----------|-----------------|
|                        |        |              | Work Order Number:            |            |        |                 | Work Order Number: 9121714    |            |           |                 |
|                        |        |              | Sample No.                    | Date Taken | µg/L   |                 | Sample No.                    | Date Taken | µg/L      |                 |
|                        |        |              |                               |            | Result | Detection Limit |                               |            | Result    | Detection Limit |
| Benzene                | Water  | S-8260B      |                               |            |        |                 | 217525                        | 12/15/09   | <1.00     | 1.00            |
| Toluene                | Water  | S-8260B      |                               |            |        |                 | 217525                        | 12/15/09   | <1.00     | 1.00            |
| Ethylbenzene           | Water  | S-8260B      |                               |            |        |                 | 217525                        | 12/15/09   | <1.00     | 1.00            |
| M,p-Xylene             | Water  | S-8260B      |                               |            |        |                 | 217525                        | 12/15/09   | <1.00     | 1.00            |
| o-Xylene               | Water  | S-8260B      |                               |            |        |                 | 217525                        | 12/15/09   | <1.00     | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                    | Date Taken | mg/L   |                 | Sample No.                    | Date Taken | mg/L      |                 |
|                        |        |              |                               |            | Result | Detection Limit |                               |            | Result    | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| Fluorene               | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| Anthracene             | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| Chrysene               | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| Indeno[1,2-3-cd]pyrene | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                               |            |        |                 | 217525                        | 12/15/09   | <0.000184 | 0.000200        |



## GMW-10

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u> |            |             |                 | <u>4<sup>th</sup> Quarter</u> |            |             |                 |
|------------------------|--------|--------------|-------------------------------|------------|-------------|-----------------|-------------------------------|------------|-------------|-----------------|
|                        |        |              | Work Order Number: 9100214    |            |             |                 | Work Order Number: 9121714    |            |             |                 |
|                        |        |              | Sample No.                    | Date Taken | <u>µg/L</u> |                 | Sample No.                    | Date Taken | <u>µg/L</u> |                 |
|                        |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Benzene                | Water  | S-8260B      | 211382                        | 9/26/09    | <1.00       | 1               | 217524                        | 12/15/09   | <1.00       | 1.00            |
| Toluene                | Water  | S-8260B      | 211382                        | 9/26/09    | <1.00       | 1               | 217524                        | 12/15/09   | <1.00       | 1.00            |
| Ethylbenzene           | Water  | S-8260B      | 211382                        | 9/26/09    | <1.00       | 1               | 217524                        | 12/15/09   | <1.00       | 1.00            |
| M,p-Xylene             | Water  | S-8260B      | 211382                        | 9/26/09    | <1.00       | 1               | 217524                        | 12/15/09   | <1.00       | 1.00            |
| o-Xylene               | Water  | S-8260B      | 211382                        | 9/26/09    | <1.00       | 1               | 217524                        | 12/15/09   | <1.00       | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                    | Date Taken | <u>mg/L</u> |                 | Sample No.                    | Date Taken | <u>mg/L</u> |                 |
|                        |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| Fluorene               | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| Anthracene             | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| Chrysene               | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                               |            |             |                 | 217524                        | 12/15/09   | <0.000184   | 0.000200        |

**GMW-4**

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u> |            |             |                 | <u>4<sup>th</sup> Quarter</u> |            |             |                 |
|------------------------|--------|--------------|-------------------------------|------------|-------------|-----------------|-------------------------------|------------|-------------|-----------------|
|                        |        |              | Work Order Number:            |            |             |                 | Work Order Number: 9121714    |            |             |                 |
|                        |        |              | Sample No.                    | Date Taken | <u>µg/L</u> |                 | Sample No.                    | Date Taken | <u>µg/L</u> |                 |
|                        |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Benzene                | Water  | S-8260B      |                               |            |             |                 | 217527                        | 12/15/09   | <1.00       | 1.00            |
| Toluene                | Water  | S-8260B      |                               |            |             |                 | 217527                        | 12/15/09   | <1.00       | 1.00            |
| Ethylbenzene           | Water  | S-8260B      |                               |            |             |                 | 217527                        | 12/15/09   | <1.00       | 1.00            |
| M,p-Xylene             | Water  | S-8260B      |                               |            |             |                 | 217527                        | 12/15/09   | <1.00       | 1.00            |
| o-Xylene               | Water  | S-8260B      |                               |            |             |                 | 217527                        | 12/15/09   | <1.00       | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                    | Date Taken | <u>mg/L</u> |                 | Sample No.                    | Date Taken | <u>mg/L</u> |                 |
|                        |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| Fluorene               | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| Anthracene             | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| Chrysene               | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                               |            |             |                 | 217527                        | 12/15/09   | <0.000184   | 0.000200        |

**GMW-6**

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u> |            |             |                 | <u>4<sup>th</sup> Quarter</u> |            |             |                 |
|------------------------|--------|--------------|-------------------------------|------------|-------------|-----------------|-------------------------------|------------|-------------|-----------------|
|                        |        |              | Work Order Number:            |            |             |                 | Work Order Number: 9121714    |            |             |                 |
|                        |        |              | Sample No.                    | Date Taken | <u>µg/L</u> |                 | Sample No.                    | Date Taken | <u>µg/L</u> |                 |
|                        |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Benzene                | Water  | S-8260B      |                               |            |             |                 | 217528                        | 12/15/09   | <1.00       | 1.00            |
| Toluene                | Water  | S-8260B      |                               |            |             |                 | 217528                        | 12/15/09   | <1.00       | 1.00            |
| Ethylbenzene           | Water  | S-8260B      |                               |            |             |                 | 217528                        | 12/15/09   | <1.00       | 1.00            |
| M,p-Xylene             | Water  | S-8260B      |                               |            |             |                 | 217528                        | 12/15/09   | <1.00       | 1.00            |
| o-Xylene               | Water  | S-8260B      |                               |            |             |                 | 217528                        | 12/15/09   | <1.00       | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                    | Date Taken | <u>mg/L</u> |                 | Sample No.                    | Date Taken | <u>mg/L</u> |                 |
|                        |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| Fluorene               | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| Anthracene             | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| Chrysene               | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                               |            |             |                 | 217528                        | 12/15/09   | <0.000184   | 0.000200        |

## GMW-11

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u><br>Work Order Number: |            |             |                 | <u>4<sup>th</sup> Quarter</u><br>Work Order Number: 9121714 |            |             |                 |
|------------------------|--------|--------------|-----------------------------------------------------|------------|-------------|-----------------|-------------------------------------------------------------|------------|-------------|-----------------|
|                        |        |              | Sample No.                                          | Date Taken | <u>µg/L</u> |                 | Sample No.                                                  | Date Taken | <u>µg/L</u> |                 |
|                        |        |              |                                                     |            | Result      | Detection Limit |                                                             |            | Result      | Detection Limit |
| Benzene                | Water  | S-8260B      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <1.00       | 1.00            |
| Toluene                | Water  | S-8260B      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <1.00       | 1.00            |
| Ethylbenzene           | Water  | S-8260B      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <1.00       | 1.00            |
| M,p-Xylene             | Water  | S-8260B      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <1.00       | 1.00            |
| o-Xylene               | Water  | S-8260B      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <1.00       | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                                          | Date Taken | <u>mg/L</u> |                 | Sample No.                                                  | Date Taken | <u>mg/L</u> |                 |
|                        |        |              |                                                     |            | Result      | Detection Limit |                                                             |            | Result      | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| Fluorene               | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| Anthracene             | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| Chrysene               | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                                                     |            |             |                 | 217529                                                      | 12/15/09   | <0.000184   | 0.000200        |

**GMW-5**

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u> |            |             |                 | <u>4<sup>th</sup> Quarter</u> |            |             |                 |
|------------------------|--------|--------------|-------------------------------|------------|-------------|-----------------|-------------------------------|------------|-------------|-----------------|
|                        |        |              | Work Order Number:            |            |             |                 | Work Order Number: 9121714    |            |             |                 |
|                        |        |              | Sample No.                    | Date Taken | <u>µg/L</u> |                 | Sample No.                    | Date Taken | <u>µg/L</u> |                 |
|                        |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Benzene                | Water  | S-8260B      |                               |            |             |                 | 217530                        | 12/15/09   | <1.00       | 1.00            |
| Toluene                | Water  | S-8260B      |                               |            |             |                 | 217530                        | 12/15/09   | <1.00       | 1.00            |
| Ethylbenzene           | Water  | S-8260B      |                               |            |             |                 | 217530                        | 12/15/09   | <1.00       | 1.00            |
| M,p-Xylene             | Water  | S-8260B      |                               |            |             |                 | 217530                        | 12/15/09   | <1.00       | 1.00            |
| o-Xylene               | Water  | S-8260B      |                               |            |             |                 | 217530                        | 12/15/09   | <1.00       | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                    | Date Taken | <u>mg/L</u> |                 | Sample No.                    | Date Taken | <u>mg/L</u> |                 |
|                        |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| Fluorene               | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| Anthracene             | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| Chrysene               | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                               |            |             |                 | 217530                        | 12/15/09   | <0.000184   | 0.000200        |

**Table 8. 1<sup>st</sup> & 2<sup>nd</sup> Quarter 2010 Sampling Reports**

**Grimes Monitor Wells - Westgate Subdivision  
BTEX**

**GMW-5**

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                     |            |             |                 | <u>2<sup>nd</sup> Quarter</u>                     |            |             |                 |
|--------------|--------|--------------|---------------------------------------------------|------------|-------------|-----------------|---------------------------------------------------|------------|-------------|-----------------|
|              |        |              | Work Order Number: 10031917<br>Method Taken: 8260 |            |             |                 | Work Order Number: 10062904<br>Method Taken: 8260 |            |             |                 |
|              |        |              | Sample No.                                        | Date Taken | <u>µg/L</u> |                 | Sample No.                                        | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                                   |            | Result      | Detection Limit |                                                   |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      | 226117                                            | 3/17/10    | <5.00       | 1               |                                                   |            |             |                 |
| Toluene      | Water  | S-8260B      | 226117                                            | 3/17/10    | <5.00       | 1               |                                                   |            |             |                 |
| Ethylbenzene | Water  | S-8260B      | 226117                                            | 3/17/10    | <5.00       | 1               |                                                   |            |             |                 |
| M,p-Xylene   | Water  | S-8260B      | 226117                                            | 3/17/10    | <5.00       | 1               |                                                   |            |             |                 |
| o-Xylene     | Water  | S-8260B      | 226117                                            | 3/17/10    | <5.00       | 1               |                                                   |            |             |                 |

## GMW-8

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                     |            |                 |                 | <u>2<sup>nd</sup> Quarter</u>                     |            |                 |                 |
|--------------|--------|--------------|---------------------------------------------------|------------|-----------------|-----------------|---------------------------------------------------|------------|-----------------|-----------------|
|              |        |              | Work Order Number: 10031917<br>Method Taken: 8260 |            |                 |                 | Work Order Number: 10062904<br>Method Taken: 8260 |            |                 |                 |
|              |        |              | Sample No.                                        | Date Taken | $\mu\text{g/L}$ |                 | Sample No.                                        | Date Taken | $\mu\text{g/L}$ |                 |
|              |        |              |                                                   |            | Result          | Detection Limit |                                                   |            | Result          | Detection Limit |
| Benzene      | Water  | S-8260B      | 226115                                            | 3/17/10    | <1.00           | 1               | 236060                                            | 6/28/10    | <1.00           | 1.00            |
| Toluene      | Water  | S-8260B      | 226115                                            | 3/17/10    | <1.00           | 1               | 236060                                            | 6/28/10    | <1.00           | 1.00            |
| Ethylbenzene | Water  | S-8260B      | 226115                                            | 3/17/10    | <1.00           | 1               | 236060                                            | 6/28/10    | <1.00           | 1.00            |
| M,p-Xylene   | Water  | S-8260B      | 226115                                            | 3/17/10    | <1.00           | 1               | 236060                                            | 6/28/10    | <1.00           | 1.00            |
| o-Xylene     | Water  | S-8260B      | 226115                                            | 3/17/10    | <1.00           | 1               | 236060                                            | 6/28/10    | <1.00           | 1.00            |

## GMW-9

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                     |            |                 |                 | <u>2<sup>nd</sup> Quarter</u>                     |            |                 |                 |
|--------------|--------|--------------|---------------------------------------------------|------------|-----------------|-----------------|---------------------------------------------------|------------|-----------------|-----------------|
|              |        |              | Work Order Number: 10031917<br>Method Taken: 8260 |            |                 |                 | Work Order Number: 10062904<br>Method Taken: 8260 |            |                 |                 |
|              |        |              | Sample No.                                        | Date Taken | $\mu\text{g/L}$ |                 | Sample No.                                        | Date Taken | $\mu\text{g/L}$ |                 |
|              |        |              |                                                   |            | Result          | Detection Limit |                                                   |            | Result          | Detection Limit |
| Benzene      | Water  | S-8260B      | 226116                                            | 3/17/10    | <1.00           | 1               | 236061                                            | 6/28/10    | <1.00           | 1.00            |
| Toluene      | Water  | S-8260B      | 226116                                            | 3/17/10    | <1.00           | 1               | 236061                                            | 6/28/10    | <1.00           | 1.00            |
| Ethylbenzene | Water  | S-8260B      | 226116                                            | 3/17/10    | <1.00           | 1               | 236061                                            | 6/28/10    | <1.00           | 1.00            |
| M,p-Xylene   | Water  | S-8260B      | 226116                                            | 3/17/10    | <1.00           | 1               | 236061                                            | 6/28/10    | <1.00           | 1.00            |
| o-Xylene     | Water  | S-8260B      | 226116                                            | 3/17/10    | <1.00           | 1               | 236061                                            | 6/28/10    | <1.00           | 1.00            |

## GMW-10

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                     |            |                 |                 | <u>2<sup>nd</sup> Quarter</u>                     |            |                 |                 |
|--------------|--------|--------------|---------------------------------------------------|------------|-----------------|-----------------|---------------------------------------------------|------------|-----------------|-----------------|
|              |        |              | Work Order Number: 10031917<br>Method Taken: 8260 |            |                 |                 | Work Order Number: 10062904<br>Method Taken: 8260 |            |                 |                 |
|              |        |              | Sample No.                                        | Date Taken | $\mu\text{g/L}$ |                 | Sample No.                                        | Date Taken | $\mu\text{g/L}$ |                 |
|              |        |              |                                                   |            | Result          | Detection Limit |                                                   |            | Result          | Detection Limit |
| Benzene      | Water  | S-8260B      | 226114                                            | 3/17/10    | <1.00           | 1               | 236059                                            | 6/28/10    | <1.00           | 1.00            |
| Toluene      | Water  | S-8260B      | 226114                                            | 3/17/10    | <1.00           | 1               | 236059                                            | 6/28/10    | <1.00           | 1.00            |
| Ethylbenzene | Water  | S-8260B      | 226114                                            | 3/17/10    | <1.00           | 1               | 236059                                            | 6/28/10    | <1.00           | 1.00            |
| M,p-Xylene   | Water  | S-8260B      | 226114                                            | 3/17/10    | <1.00           | 1               | 236059                                            | 6/28/10    | <1.00           | 1.00            |
| o-Xylene     | Water  | S-8260B      | 226114                                            | 3/17/10    | <1.00           | 1               | 236059                                            | 6/28/10    | <1.00           | 1.00            |

**Table 8. 3<sup>rd</sup> & 4<sup>th</sup> Quarter 2010 Sampling Reports**

**Grimes Monitor Wells - Westgate Subdivision  
BTEx: S-8260B Method and PAH: S-8270C**

**GMW-4**

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u> |            |             |                 | <u>4<sup>th</sup> Quarter</u> |            |             |                 |
|------------------------|--------|--------------|-------------------------------|------------|-------------|-----------------|-------------------------------|------------|-------------|-----------------|
|                        |        |              | Work Order Number: 10092725   |            |             |                 | Work Order Number: 10123015   |            |             |                 |
|                        |        |              | Sample No.                    | Date Taken | <u>µg/L</u> |                 | Sample No.                    | Date Taken | <u>µg/L</u> |                 |
|                        |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Benzene                | Water  | S-8260B      |                               |            |             |                 | 254484                        | 12/28/10   | <1.00       | 1               |
| Toluene                | Water  | S-8260B      |                               |            |             |                 | 254484                        | 12/28/10   | <1.00       | 1               |
| Ethylbenzene           | Water  | S-8260B      |                               |            |             |                 | 254484                        | 12/28/10   | <1.00       | 1               |
| M,p-Xylene             | Water  | S-8260B      |                               |            |             |                 | 254484                        | 12/28/10   | <1.00       | 1               |
| o-Xylene               | Water  | S-8260B      |                               |            |             |                 | 254484                        | 12/28/10   | <1.00       | 1               |
| Analyte                | Matrix | Method Taken | Sample No.                    | Date Taken | <u>mg/L</u> |                 | Sample No.                    | Date Taken | <u>mg/L</u> |                 |
|                        |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| Fluorene               | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| Anthracene             | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| Chrysene               | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| Indeno[1,2-3-cd]pyrene | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                               |            |             |                 | 254484                        | 12/28/10   | <0.000183   | 0.000200        |

**GMW-5**

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u><br>Work Order Number: 10092725 |            |             |                 | <u>4<sup>th</sup> Quarter</u><br>Work Order Number: 10123015 |            |             |                 |
|------------------------|--------|--------------|--------------------------------------------------------------|------------|-------------|-----------------|--------------------------------------------------------------|------------|-------------|-----------------|
|                        |        |              | Sample No.                                                   | Date Taken | <u>µg/L</u> |                 | Sample No.                                                   | Date Taken | <u>µg/L</u> |                 |
|                        |        |              |                                                              |            | Result      | Detection Limit |                                                              |            | Result      | Detection Limit |
| Benzene                | Water  | S-8260B      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <1.00       | 1.00            |
| Toluene                | Water  | S-8260B      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <1.00       | 1.00            |
| Ethylbenzene           | Water  | S-8260B      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <1.00       | 1.00            |
| M,p-Xylene             | Water  | S-8260B      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <1.00       | 1.00            |
| o-Xylene               | Water  | S-8260B      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <1.00       | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                                                   | Date Taken | <u>mg/L</u> |                 | Sample No.                                                   | Date Taken | <u>mg/L</u> |                 |
|                        |        |              |                                                              |            | Result      | Detection Limit |                                                              |            | Result      | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| Fluorene               | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| Anthracene             | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| Chrysene               | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                                                              |            |             |                 | 254487                                                       | 12/28/10   | <0.000183   | 0.000200        |



## GMW-6

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u><br>Work Order Number: 10092725 |            |             |                 | <u>4<sup>th</sup> Quarter</u><br>Work Order Number: 10123015 |            |             |                 |
|------------------------|--------|--------------|--------------------------------------------------------------|------------|-------------|-----------------|--------------------------------------------------------------|------------|-------------|-----------------|
|                        |        |              | Sample No.                                                   | Date Taken | <u>µg/L</u> |                 | Sample No.                                                   | Date Taken | <u>µg/L</u> |                 |
|                        |        |              |                                                              |            | Result      | Detection Limit |                                                              |            | Result      | Detection Limit |
| Benzene                | Water  | S-8260B      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <1.00       | 1               |
| Toluene                | Water  | S-8260B      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <1.00       | 1               |
| Ethylbenzene           | Water  | S-8260B      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <1.00       | 1               |
| M,p-Xylene             | Water  | S-8260B      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <1.00       | 1               |
| o-Xylene               | Water  | S-8260B      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <1.00       | 1               |
| Analyte                | Matrix | Method Taken | Sample No.                                                   | Date Taken | <u>mg/L</u> |                 | Sample No.                                                   | Date Taken | <u>mg/L</u> |                 |
|                        |        |              |                                                              |            | Result      | Detection Limit |                                                              |            | Result      | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| 2-Methylnaphthalene    | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| 1-Methylnaphthalene    | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| Acenaphthylene         | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| Acenaphthene           | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| Dibenzofuran           | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| Fluorene               | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| Phenanthrene           | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| Anthracene             | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| Fluoranthene           | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| Pyrene                 | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| Benzo[a]anthracene     | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| Chrysene               | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| Benzo[a]pyrene         | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| Indeno[1,2-3-cd]pyrene | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                                                              |            |             |                 | 254485                                                       | 12/28/10   | <0.000188   | 0.00200         |

## GMW-8

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u> |            |             |                 | <u>4<sup>th</sup> Quarter</u> |            |             |                 |
|------------------------|--------|--------------|-------------------------------|------------|-------------|-----------------|-------------------------------|------------|-------------|-----------------|
|                        |        |              | Work Order Number: 10092725   |            |             |                 | Work Order Number: 10123015   |            |             |                 |
|                        |        |              | Sample No.                    | Date Taken | <u>µg/L</u> |                 | Sample No.                    | Date Taken | <u>µg/L</u> |                 |
|                        |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Benzene                | Water  | S-8260B      | 245970                        | 9/23/10    | <1.00       | 1               | 254483                        | 12/28/10   | <1.00       | 1               |
| Toluene                | Water  | S-8260B      | 245970                        | 9/23/10    | <1.00       | 1               | 254483                        | 12/28/10   | <1.00       | 1               |
| Ethylbenzene           | Water  | S-8260B      | 245970                        | 9/23/10    | <1.00       | 1               | 254483                        | 12/28/10   | <1.00       | 1               |
| M,p-Xylene             | Water  | S-8260B      | 245970                        | 9/23/10    | <1.00       | 1               | 254483                        | 12/28/10   | <1.00       | 1               |
| o-Xylene               | Water  | S-8260B      | 245970                        | 9/23/10    | <1.00       | 1               | 254483                        | 12/28/10   | <1.00       | 1               |
| Analyte                | Matrix | Method Taken | Sample No.                    | Date Taken | <u>mg/L</u> |                 | Sample No.                    | Date Taken | <u>mg/L</u> |                 |
|                        |        |              |                               |            | Result      | Detection Limit |                               |            | Result      | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| Fluorene               | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| Anthracene             | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| Chrysene               | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                               |            |             |                 | 254483                        | 12/28/10   | <0.000186   | 0.000200        |

## GMW-9

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u><br>Work Order Number: 10092725 |            |             |                 | <u>4<sup>th</sup> Quarter</u><br>Work Order Number: 10123015 |            |             |                 |
|------------------------|--------|--------------|--------------------------------------------------------------|------------|-------------|-----------------|--------------------------------------------------------------|------------|-------------|-----------------|
|                        |        |              | Sample No.                                                   | Date Taken | <u>µg/L</u> |                 | Sample No.                                                   | Date Taken | <u>µg/L</u> |                 |
|                        |        |              |                                                              |            | Result      | Detection Limit |                                                              |            | Result      | Detection Limit |
| Benzene                | Water  | S-8260B      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <1.00       | 1.00            |
| Toluene                | Water  | S-8260B      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <1.00       | 1.00            |
| Ethylbenzene           | Water  | S-8260B      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <1.00       | 1.00            |
| M,p-Xylene             | Water  | S-8260B      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <1.00       | 1.00            |
| o-Xylene               | Water  | S-8260B      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <1.00       | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                                                   | Date Taken | <u>mg/L</u> |                 | Sample No.                                                   | Date Taken | <u>mg/L</u> |                 |
|                        |        |              |                                                              |            | Result      | Detection Limit |                                                              |            | Result      | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| Fluorene               | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| Anthracene             | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| Chrysene               | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| Indeno[1,2-3-cd]pyrene | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                                                              |            |             |                 | 254482                                                       | 12/28/10   | <0.000184   | 0.000200        |

**GMW-10**

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u><br>Work Order Number: 10092725 |            |        |                 | <u>4<sup>th</sup> Quarter</u><br>Work Order Number: 10123015<br>BTEX Work Order Number: 10123109 |            |           |                 |
|------------------------|--------|--------------|--------------------------------------------------------------|------------|--------|-----------------|--------------------------------------------------------------------------------------------------|------------|-----------|-----------------|
|                        |        |              | Sample No.                                                   | Date Taken | µg/L   |                 | Sample No.                                                                                       | Date Taken | µg/L      |                 |
|                        |        |              |                                                              |            | Result | Detection Limit |                                                                                                  |            | Result    | Detection Limit |
| Benzene                | Water  | S-8260B      | 245969                                                       | 9/23/10    | <1.00  | 1               | 254481                                                                                           | 12/30/10   | <1.00     | 1.00            |
| Toluene                | Water  | S-8260B      | 245969                                                       | 9/23/10    | <1.00  | 1               | 254481                                                                                           | 12/30/10   | <1.00     | 1.00            |
| Ethylbenzene           | Water  | S-8260B      | 245969                                                       | 9/23/10    | <1.00  | 1               | 254481                                                                                           | 12/30/10   | <1.00     | 1.00            |
| M,p-Xylene             | Water  | S-8260B      | 245969                                                       | 9/23/10    | <1.00  | 1               | 254481                                                                                           | 12/30/10   | <1.00     | 1.00            |
| o-Xylene               | Water  | S-8260B      | 245969                                                       | 9/23/10    | <1.00  | 1               | 254481                                                                                           | 12/30/10   | <1.00     | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                                                   | Date Taken | mg/L   |                 | Sample No.                                                                                       | Date Taken | mg/L      |                 |
|                        |        |              |                                                              |            | Result | Detection Limit |                                                                                                  |            | Result    | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Fluorene               | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Anthracene             | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Chrysene               | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Indeno[1,2-3-cd]pyrene | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                                                              |            |        |                 | 254481                                                                                           | 12/28/10   | <0.000184 | 0.000200        |

**GMW-11**

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u><br>Work Order Number: 10092725 |            |        |                 | <u>4<sup>th</sup> Quarter</u><br>Work Order Number: 10123015<br>BTEX Work Order Number: 10123110 |            |           |                 |
|------------------------|--------|--------------|--------------------------------------------------------------|------------|--------|-----------------|--------------------------------------------------------------------------------------------------|------------|-----------|-----------------|
|                        |        |              | Sample No.                                                   | Date Taken | µg/L   |                 | Sample No.                                                                                       | Date Taken | µg/L      |                 |
|                        |        |              |                                                              |            | Result | Detection Limit |                                                                                                  |            | Result    | Detection Limit |
| Benzene                | Water  | S-8260B      |                                                              |            |        |                 | 254486                                                                                           | 12/30/10   | <1.00     | 1.00            |
| Toluene                | Water  | S-8260B      |                                                              |            |        |                 | 254486                                                                                           | 12/30/10   | <1.00     | 1.00            |
| Ethylbenzene           | Water  | S-8260B      |                                                              |            |        |                 | 254486                                                                                           | 12/30/10   | <1.00     | 1.00            |
| M,p-Xylene             | Water  | S-8260B      |                                                              |            |        |                 | 254486                                                                                           | 12/30/10   | <1.00     | 1.00            |
| o-Xylene               | Water  | S-8260B      |                                                              |            |        |                 | 254486                                                                                           | 12/30/10   | <1.00     | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                                                   | Date Taken | mg/L   |                 | Sample No.                                                                                       | Date Taken | mg/L      |                 |
|                        |        |              |                                                              |            | Result | Detection Limit |                                                                                                  |            | Result    | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| 2-Methylnaphthalene    | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| 1-Methylnaphthalene    | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Acenaphthylene         | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Acenaphthene           | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Dibenzofuran           | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Fluorene               | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Phenanthrene           | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Anthracene             | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Fluoranthene           | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Pyrene                 | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Benzo[a]anthracene     | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Chrysene               | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Benzo[a]pyrene         | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Indeno[1,2-3-cd]pyrene | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                                                              |            |        |                 | 254486                                                                                           | 12/28/10   | <0.000184 | 0.000200        |

**Table 9. 1<sup>st</sup> & 2<sup>nd</sup> Quarter 2011 Sampling Reports**

**Grimes Monitor Wells - Westgate Subdivision  
BTEX**

**GMW-5**

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u><br>Work Order Number:<br>Method Taken: 8260 |            |        |                 | <u>2<sup>nd</sup> Quarter</u><br>Work Order Number:<br>Method Taken: 8260 |            |        |                 |
|--------------|--------|--------------|---------------------------------------------------------------------------|------------|--------|-----------------|---------------------------------------------------------------------------|------------|--------|-----------------|
|              |        |              | Sample No.                                                                | Date Taken | µg/L   |                 | Sample No.                                                                | Date Taken | µg/L   |                 |
|              |        |              |                                                                           |            | Result | Detection Limit |                                                                           |            | Result | Detection Limit |
| Benzene      | Water  | S-8260B      |                                                                           |            |        |                 |                                                                           |            |        |                 |
| Toluene      | Water  | S-8260B      |                                                                           |            |        |                 |                                                                           |            |        |                 |
| Ethylbenzene | Water  | S-8260B      |                                                                           |            |        |                 |                                                                           |            |        |                 |
| M,p-Xylene   | Water  | S-8260B      |                                                                           |            |        |                 |                                                                           |            |        |                 |
| o-Xylene     | Water  | S-8260B      |                                                                           |            |        |                 |                                                                           |            |        |                 |

### GMW-8

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                     |            |             |                 | <u>2<sup>nd</sup> Quarter</u>                     |            |             |                 |
|--------------|--------|--------------|---------------------------------------------------|------------|-------------|-----------------|---------------------------------------------------|------------|-------------|-----------------|
|              |        |              | Work Order Number: 11040121<br>Method Taken: 8260 |            |             |                 | Work Order Number: 11070127<br>Method Taken: 8260 |            |             |                 |
|              |        |              | Sample No.                                        | Date Taken | <u>µg/L</u> |                 | Sample No.                                        | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                                   |            | Result      | Detection Limit |                                                   |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      | 262422                                            | 3/29/11    | <1.00       | 1               | 271053                                            | 6/28/11    | <1.00       | 1.00            |
| Toluene      | Water  | S-8260B      | 262422                                            | 3/29/11    | <1.00       | 1               | 271053                                            | 6/28/11    | <1.00       | 1.00            |
| Ethylbenzene | Water  | S-8260B      | 262422                                            | 3/29/11    | <1.00       | 1               | 271053                                            | 6/28/11    | <1.00       | 1.00            |
| M,p-Xylene   | Water  | S-8260B      | 262422                                            | 3/29/11    | <1.00       | 1               | 271053                                            | 6/28/11    | <1.00       | 1.00            |
| o-Xylene     | Water  | S-8260B      | 262422                                            | 3/29/11    | <1.00       | 1               | 271053                                            | 6/28/11    | <1.00       | 1.00            |

### GMW-9

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                     |            |             |                 | <u>2<sup>nd</sup> Quarter</u>                     |            |             |                 |
|--------------|--------|--------------|---------------------------------------------------|------------|-------------|-----------------|---------------------------------------------------|------------|-------------|-----------------|
|              |        |              | Work Order Number: 11040121<br>Method Taken: 8260 |            |             |                 | Work Order Number: 11070127<br>Method Taken: 8260 |            |             |                 |
|              |        |              | Sample No.                                        | Date Taken | <u>µg/L</u> |                 | Sample No.                                        | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                                   |            | Result      | Detection Limit |                                                   |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      | 262423                                            | 3/29/11    | <1.00       | 1               | 271054                                            | 6/28/11    | <1.00       | 1.00            |
| Toluene      | Water  | S-8260B      | 262423                                            | 3/29/11    | <1.00       | 1               | 271054                                            | 6/28/11    | <1.00       | 1.00            |
| Ethylbenzene | Water  | S-8260B      | 262423                                            | 3/29/11    | <1.00       | 1               | 271054                                            | 6/28/11    | <1.00       | 1.00            |
| M,p-Xylene   | Water  | S-8260B      | 262423                                            | 3/29/11    | <1.00       | 1               | 271054                                            | 6/28/11    | <1.00       | 1.00            |
| o-Xylene     | Water  | S-8260B      | 262423                                            | 3/29/11    | <1.00       | 1               | 271054                                            | 6/28/11    | <1.00       | 1.00            |

### GMW-10

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                     |            |             |                 | <u>2<sup>nd</sup> Quarter</u>                     |            |             |                 |
|--------------|--------|--------------|---------------------------------------------------|------------|-------------|-----------------|---------------------------------------------------|------------|-------------|-----------------|
|              |        |              | Work Order Number: 11040121<br>Method Taken: 8260 |            |             |                 | Work Order Number: 11070127<br>Method Taken: 8260 |            |             |                 |
|              |        |              | Sample No.                                        | Date Taken | <u>µg/L</u> |                 | Sample No.                                        | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                                   |            | Result      | Detection Limit |                                                   |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      | 262421                                            | 3/29/11    | <1.00       | 1               | 271052                                            | 6/28/11    | <1.00       | 1.00            |
| Toluene      | Water  | S-8260B      | 262421                                            | 3/29/11    | <1.00       | 1               | 271052                                            | 6/28/11    | <1.00       | 1.00            |
| Ethylbenzene | Water  | S-8260B      | 262421                                            | 3/29/11    | <1.00       | 1               | 271052                                            | 6/28/11    | <1.00       | 1.00            |
| M,p-Xylene   | Water  | S-8260B      | 262421                                            | 3/29/11    | <1.00       | 1               | 271052                                            | 6/28/11    | <1.00       | 1.00            |
| o-Xylene     | Water  | S-8260B      | 262421                                            | 3/29/11    | <1.00       | 1               | 271052                                            | 6/28/11    | <1.00       | 1.00            |

**Table 9. 3<sup>rd</sup> & 4<sup>th</sup> Quarter 2011 Sampling Reports**

**Grimes Monitor Wells - Westgate Subdivision  
BTEX: S-8260B Method and PAH: S-8270C**

### GMW-4

| Analyte      | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u>                     |            |             |                 | <u>4<sup>th</sup> Quarter</u>                     |            |             |                 |
|--------------|--------|--------------|---------------------------------------------------|------------|-------------|-----------------|---------------------------------------------------|------------|-------------|-----------------|
|              |        |              | Work Order Number: 10092725<br>Method Taken: 8260 |            |             |                 | Work Order Number: 12010302<br>Method Taken: 8260 |            |             |                 |
|              |        |              | Sample No.                                        | Date Taken | <u>µg/L</u> |                 | Sample No.                                        | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                                   |            | Result      | Detection Limit |                                                   |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      |                                                   |            |             |                 | 285616                                            | 12/30/11   | <1.00       | 1               |
| Toluene      | Water  | S-8260B      |                                                   |            |             |                 | 285616                                            | 12/30/11   | <1.00       | 1               |
| Ethylbenzene | Water  | S-8260B      |                                                   |            |             |                 | 285616                                            | 12/30/11   | <1.00       | 1               |
| M,p-Xylene   | Water  | S-8260B      |                                                   |            |             |                 | 285616                                            | 12/30/11   | <1.00       | 1               |
| o-Xylene     | Water  | S-8260B      |                                                   |            |             |                 | 285616                                            | 12/30/11   | <1.00       | 1               |

## GMW-5

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u><br>Work Order Number: 10092725<br>Method Taken: 8260 |            |             |                 | <u>4<sup>th</sup> Quarter</u><br>Work Order Number: 12010302<br>Method Taken: 8260 |            |             |                 |
|------------------------|--------|--------------|------------------------------------------------------------------------------------|------------|-------------|-----------------|------------------------------------------------------------------------------------|------------|-------------|-----------------|
|                        |        |              | Sample No.                                                                         | Date Taken | <u>µg/L</u> |                 | Sample No.                                                                         | Date Taken | <u>µg/L</u> |                 |
|                        |        |              |                                                                                    |            | Result      | Detection Limit |                                                                                    |            | Result      | Detection Limit |
| Benzene                | Water  | S-8260B      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <1.00       | 1.00            |
| Toluene                | Water  | S-8260B      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <1.00       | 1.00            |
| Ethylbenzene           | Water  | S-8260B      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <1.00       | 1.00            |
| M,p-Xylene             | Water  | S-8260B      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <1.00       | 1.00            |
| o-Xylene               | Water  | S-8260B      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <1.00       | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                                                                         | Date Taken | <u>mg/L</u> |                 | Sample No.                                                                         | Date Taken | <u>mg/L</u> |                 |
|                        |        |              |                                                                                    |            | Result      | Detection Limit |                                                                                    |            | Result      | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| 2-Methylnaphthalene    | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| 1-Methylnaphthalene    | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| Acenaphthylene         | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| Acenaphthene           | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| Dibenzofuran           | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| Fluorene               | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| Phenanthrene           | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| Anthracene             | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| Fluoranthene           | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| Pyrene                 | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| Benzo[a]anthracene     | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| Chrysene               | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| Benzo[a]pyrene         | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| Indeno[1,2-3-cd]pyrene | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                                                                                    |            |             |                 | 285619                                                                             | 12/30/11   | <0.000286   | 0.0002          |

## GMW-6

| Analyte      | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u><br>Work Order Number: 10092725<br>Method Taken: 8260 |            |             |                 | <u>4<sup>th</sup> Quarter</u><br>Work Order Number: 12010302<br>Method Taken: 8260 |            |             |                 |
|--------------|--------|--------------|------------------------------------------------------------------------------------|------------|-------------|-----------------|------------------------------------------------------------------------------------|------------|-------------|-----------------|
|              |        |              | Sample No.                                                                         | Date Taken | <u>µg/L</u> |                 | Sample No.                                                                         | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                                                                    |            | Result      | Detection Limit |                                                                                    |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      |                                                                                    |            |             |                 | 285617                                                                             | 12/30/11   | <1.00       | 1               |
| Toluene      | Water  | S-8260B      |                                                                                    |            |             |                 | 285617                                                                             | 12/30/11   | <1.00       | 1               |
| Ethylbenzene | Water  | S-8260B      |                                                                                    |            |             |                 | 285617                                                                             | 12/30/11   | <1.00       | 1               |
| M,p-Xylene   | Water  | S-8260B      |                                                                                    |            |             |                 | 285617                                                                             | 12/30/11   | <1.00       | 1               |
| o-Xylene     | Water  | S-8260B      |                                                                                    |            |             |                 | 285617                                                                             | 12/30/11   | <1.00       | 1               |
| Analyte      | Matrix | Method Taken | Sample No.                                                                         | Date Taken | <u>mg/L</u> |                 | Sample No.                                                                         | Date Taken | <u>mg/L</u> |                 |
|              |        |              |                                                                                    |            | Result      | Detection Limit |                                                                                    |            | Result      | Detection Limit |

**GMW-8**

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u>                     |            |             |                 | <u>4<sup>th</sup> Quarter</u>                     |            |             |                 |
|------------------------|--------|--------------|---------------------------------------------------|------------|-------------|-----------------|---------------------------------------------------|------------|-------------|-----------------|
|                        |        |              | Work Order Number: 11093014<br>Method Taken: 8260 |            |             |                 | Work Order Number: 12010302<br>Method Taken: 8260 |            |             |                 |
|                        |        |              | Sample No.                                        | Date Taken | <u>µg/L</u> |                 | Sample No.                                        | Date Taken | <u>µg/L</u> |                 |
|                        |        |              |                                                   |            | Result      | Detection Limit |                                                   |            | Result      | Detection Limit |
| Benzene                | Water  | S-8260B      | 278705                                            | 9/30/11    | <1.00       | 1               | 285615                                            | 12/30/11   | <1.00       | 1               |
| Toluene                | Water  | S-8260B      | 278705                                            | 9/30/11    | <1.00       | 1               | 285615                                            | 12/30/11   | <1.00       | 1               |
| Ethylbenzene           | Water  | S-8260B      | 278705                                            | 9/30/11    | <1.00       | 1               | 285615                                            | 12/30/11   | <1.00       | 1               |
| M,p-Xylene             | Water  | S-8260B      | 278705                                            | 9/30/11    | <1.00       | 1               | 285615                                            | 12/30/11   | <1.00       | 1               |
| o-Xylene               | Water  | S-8260B      | 278705                                            | 9/30/11    | <1.00       | 1               | 285615                                            | 12/30/11   | <1.00       | 1               |
| Analyte                | Matrix | Method Taken | Sample No.                                        | Date Taken | <u>mg/L</u> |                 | Sample No.                                        | Date Taken | <u>mg/L</u> |                 |
|                        |        |              |                                                   |            | Result      | Detection Limit |                                                   |            | Result      | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| 2-Methylnaphthalene    | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| 1-Methylnaphthalene    | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| Acenaphthylene         | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| Acenaphthene           | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| Dibenzofuran           | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| Fluorene               | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| Phenanthrene           | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| Anthracene             | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| Fluoranthene           | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| Pyrene                 | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| Benzo[a]anthracene     | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| Chrysene               | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| Benzo[a]pyrene         | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| Indeno[1,2-3-cd]pyrene | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                                                   |            |             |                 | 285615                                            | 12/30/11   | <0.000235   | 0.0002          |



**GMW-9**

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u><br>Work Order Number:<br>Method Taken: 8260 |            |        |                 | <u>4<sup>th</sup> Quarter</u><br>Work Order Number: 12010302<br>Method Taken: 8260 |            |           |                 |
|------------------------|--------|--------------|---------------------------------------------------------------------------|------------|--------|-----------------|------------------------------------------------------------------------------------|------------|-----------|-----------------|
|                        |        |              | Sample No.                                                                | Date Taken | µg/L   |                 | Sample No.                                                                         | Date Taken | µg/L      |                 |
|                        |        |              |                                                                           |            | Result | Detection Limit |                                                                                    |            | Result    | Detection Limit |
| Benzene                | Water  | S-8260B      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <1.00     | 1.00            |
| Toluene                | Water  | S-8260B      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <1.00     | 1.00            |
| Ethylbenzene           | Water  | S-8260B      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <1.00     | 1.00            |
| M,p-Xylene             | Water  | S-8260B      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <1.00     | 1.00            |
| o-Xylene               | Water  | S-8260B      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <1.00     | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                                                                | Date Taken | mg/L   |                 | Sample No.                                                                         | Date Taken | mg/L      |                 |
|                        |        |              |                                                                           |            | Result | Detection Limit |                                                                                    |            | Result    | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| 2-Methylnaphthalene    | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| 1-Methylnaphthalene    | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| Acenaphthylene         | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| Acenaphthene           | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| Dibenzofuran           | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| Fluorene               | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| Phenanthrene           | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| Anthracene             | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| Fluoranthene           | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| Pyrene                 | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| Benzo[a]anthracene     | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| Chrysene               | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| Benzo[a]pyrene         | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| Indeno[1,2-3-cd]pyrene | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                                                                           |            |        |                 | 285614                                                                             | 12/30/11   | <0.000229 | 0.0002          |

## GMW-10

| Analyte                | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u><br>Work Order Number: 11093014<br>Method Taken: 8260 |            |             |                 | <u>4<sup>th</sup> Quarter</u><br>Work Order Number: 12010302<br>Method Taken: 8260 |            |             |                 |
|------------------------|--------|--------------|------------------------------------------------------------------------------------|------------|-------------|-----------------|------------------------------------------------------------------------------------|------------|-------------|-----------------|
|                        |        |              | Sample No.                                                                         | Date Taken | <u>µg/L</u> |                 | Sample No.                                                                         | Date Taken | <u>µg/L</u> |                 |
|                        |        |              |                                                                                    |            | Result      | Detection Limit |                                                                                    |            | Result      | Detection Limit |
| Benzene                | Water  | S-8260B      | 278704                                                                             | 9/28/11    | <1.00       | 1               | 285613                                                                             | 12/30/11   | <1.00       | 1.00            |
| Toluene                | Water  | S-8260B      | 278704                                                                             | 9/28/11    | <1.00       | 1               | 285613                                                                             | 12/30/11   | <1.00       | 1.00            |
| Ethylbenzene           | Water  | S-8260B      | 278704                                                                             | 9/28/11    | <1.00       | 1               | 285613                                                                             | 12/30/11   | <1.00       | 1.00            |
| M,p-Xylene             | Water  | S-8260B      | 278704                                                                             | 9/28/11    | <1.00       | 1               | 285613                                                                             | 12/30/11   | <1.00       | 1.00            |
| o-Xylene               | Water  | S-8260B      | 278704                                                                             | 9/28/11    | <1.00       | 1               | 285613                                                                             | 12/30/11   | <1.00       | 1.00            |
| Analyte                | Matrix | Method Taken | Sample No.                                                                         | Date Taken | <u>mg/L</u> |                 | Sample No.                                                                         | Date Taken | <u>mg/L</u> |                 |
|                        |        |              |                                                                                    |            | Result      | Detection Limit |                                                                                    |            | Result      | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| 2-Methylnaphthalene    | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| 1-Methylnaphthalene    | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| Acenaphthylene         | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| Acenaphthene           | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| Dibenzofuran           | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| Fluorene               | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| Phenanthrene           | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| Anthracene             | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| Fluoranthene           | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| Pyrene                 | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| Benzo[a]anthracene     | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| Chrysene               | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| Benzo[a]pyrene         | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| Indeno[1,2-3-cd]pyrene | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                                                                                    |            |             |                 | 285613                                                                             | 12/30/11   | <0.000235   | 0.0002          |

## GMW-11

| Analyte      | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u><br>Work Order Number: 10092725<br>Method Taken: 8260 |            |             |                 | <u>4<sup>th</sup> Quarter</u><br>Work Order Number: 12010302<br>Method Taken: 8260 |            |             |                 |
|--------------|--------|--------------|------------------------------------------------------------------------------------|------------|-------------|-----------------|------------------------------------------------------------------------------------|------------|-------------|-----------------|
|              |        |              | Sample No.                                                                         | Date Taken | <u>µg/L</u> |                 | Sample No.                                                                         | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                                                                    |            | Result      | Detection Limit |                                                                                    |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      |                                                                                    |            |             |                 | 285618                                                                             | 12/30/11   | <1.00       | 1.00            |
| Toluene      | Water  | S-8260B      |                                                                                    |            |             |                 | 285618                                                                             | 12/30/11   | <1.00       | 1.00            |
| Ethylbenzene | Water  | S-8260B      |                                                                                    |            |             |                 | 285618                                                                             | 12/30/11   | <1.00       | 1.00            |
| M,p-Xylene   | Water  | S-8260B      |                                                                                    |            |             |                 | 285618                                                                             | 12/30/11   | <1.00       | 1.00            |
| o-Xylene     | Water  | S-8260B      |                                                                                    |            |             |                 | 285618                                                                             | 12/30/11   | <1.00       | 1.00            |

**Table 10. 1<sup>st</sup> & 2<sup>nd</sup> Quarter 2012 Sampling Reports**

**Grimes Monitor Wells - Westgate Subdivision**  
**BTEX**

**GMW-5**

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>            |            |             |                 | <u>2<sup>nd</sup> Quarter</u>            |            |             |                 |
|--------------|--------|--------------|------------------------------------------|------------|-------------|-----------------|------------------------------------------|------------|-------------|-----------------|
|              |        |              | Work Order Number:<br>Method Taken: 8260 |            |             |                 | Work Order Number:<br>Method Taken: 8260 |            |             |                 |
|              |        |              | Sample No.                               | Date Taken | <u>µg/L</u> |                 | Sample No.                               | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                          |            | Result      | Detection Limit |                                          |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      |                                          |            |             |                 |                                          |            |             |                 |
| Toluene      | Water  | S-8260B      |                                          |            |             |                 |                                          |            |             |                 |
| Ethylbenzene | Water  | S-8260B      |                                          |            |             |                 |                                          |            |             |                 |
| M,p-Xylene   | Water  | S-8260B      |                                          |            |             |                 |                                          |            |             |                 |
| o-Xylene     | Water  | S-8260B      |                                          |            |             |                 |                                          |            |             |                 |

**GMW-8**

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                     |            |             |                 | <u>2<sup>nd</sup> Quarter</u>                     |            |             |                 |
|--------------|--------|--------------|---------------------------------------------------|------------|-------------|-----------------|---------------------------------------------------|------------|-------------|-----------------|
|              |        |              | Work Order Number: 12032710<br>Method Taken: 8260 |            |             |                 | Work Order Number: 12062227<br>Method Taken: 8260 |            |             |                 |
|              |        |              | Sample No.                                        | Date Taken | <u>µg/L</u> |                 | Sample No.                                        | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                                   |            | Result      | Detection Limit |                                                   |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      | 292428                                            | 3/23/12    | <1.00       | 1               | 301779                                            | 6-20-12    | <1.00       | 1               |
| Toluene      | Water  | S-8260B      | 292428                                            | 3/23/12    | <1.00       | 1               | 301779                                            | 6-20-12    | <1.00       | 1               |
| Ethylbenzene | Water  | S-8260B      | 292428                                            | 3/23/12    | <1.00       | 1               | 301779                                            | 6-20-12    | <1.00       | 1               |
| M,p-Xylene   | Water  | S-8260B      | 292428                                            | 3/23/12    | <1.00       | 1               | 301779                                            | 6-20-12    | <1.00       | 1               |
| o-Xylene     | Water  | S-8260B      | 292428                                            | 3/23/12    | <1.00       | 1               | 301779                                            | 6-20-12    | <1.00       | 1               |

**GMW-9**

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                     |            |             |                 | <u>2<sup>nd</sup> Quarter</u>                     |            |             |                 |
|--------------|--------|--------------|---------------------------------------------------|------------|-------------|-----------------|---------------------------------------------------|------------|-------------|-----------------|
|              |        |              | Work Order Number: 12032710<br>Method Taken: 8260 |            |             |                 | Work Order Number: 12062227<br>Method Taken: 8260 |            |             |                 |
|              |        |              | Sample No.                                        | Date Taken | <u>µg/L</u> |                 | Sample No.                                        | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                                   |            | Result      | Detection Limit |                                                   |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      | 292429                                            | 3/23/12    | <1.00       | 1               | 301780                                            | 6-20-12    | <1.00       | 1               |
| Toluene      | Water  | S-8260B      | 292429                                            | 3/23/12    | <1.00       | 1               | 301780                                            | 6-20-12    | <1.00       | 1               |
| Ethylbenzene | Water  | S-8260B      | 292429                                            | 3/23/12    | <1.00       | 1               | 301780                                            | 6-20-12    | <1.00       | 1               |
| M,p-Xylene   | Water  | S-8260B      | 292429                                            | 3/23/12    | <1.00       | 1               | 301780                                            | 6-20-12    | <1.00       | 1               |
| o-Xylene     | Water  | S-8260B      | 292429                                            | 3/23/12    | <1.00       | 1               | 301780                                            | 6-20-12    | <1.00       | 1               |

**GMW-10**

| Analyte      | Matrix | Method Taken | <u>1<sup>st</sup> Quarter</u>                     |            |             |                 | <u>2<sup>nd</sup> Quarter</u>                     |            |             |                 |
|--------------|--------|--------------|---------------------------------------------------|------------|-------------|-----------------|---------------------------------------------------|------------|-------------|-----------------|
|              |        |              | Work Order Number: 12032710<br>Method Taken: 8260 |            |             |                 | Work Order Number: 12062227<br>Method Taken: 8260 |            |             |                 |
|              |        |              | Sample No.                                        | Date Taken | <u>µg/L</u> |                 | Sample No.                                        | Date Taken | <u>µg/L</u> |                 |
|              |        |              |                                                   |            | Result      | Detection Limit |                                                   |            | Result      | Detection Limit |
| Benzene      | Water  | S-8260B      | 292427                                            | 3/23/12    | <1.00       | 1               | 301778                                            | 6-20-12    | <1.00       | 1               |
| Toluene      | Water  | S-8260B      | 292427                                            | 3/23/12    | <1.00       | 1               | 301778                                            | 6-20-12    | <1.00       | 1               |
| Ethylbenzene | Water  | S-8260B      | 292427                                            | 3/23/12    | <1.00       | 1               | 301778                                            | 6-20-12    | <1.00       | 1               |
| M,p-Xylene   | Water  | S-8260B      | 292427                                            | 3/23/12    | <1.00       | 1               | 301778                                            | 6-20-12    | <1.00       | 1               |
| o-Xylene     | Water  | S-8260B      | 292427                                            | 3/23/12    | <1.00       | 1               | 301778                                            | 6-20-12    | <1.00       | 1               |

## GMW-5

| Analyte      | Matrix | Method Taken | <u>3<sup>rd</sup> Quarter</u><br>Work Order Number: 12072528<br>Method Taken: 8260 |            |        |                 |
|--------------|--------|--------------|------------------------------------------------------------------------------------|------------|--------|-----------------|
|              |        |              | Sample No.                                                                         | Date Taken | µg/L   |                 |
|              |        |              |                                                                                    |            | Result | Detection Limit |
| Benzene      | Water  | S-8260B      | 304651                                                                             | 7/29/12    | <1.00  | 1               |
| Toluene      | Water  | S-8260B      | 304651                                                                             | 7/29/12    | 2.22   | 1               |
| Ethylbenzene | Water  | S-8260B      | 304651                                                                             | 7/29/12    | <1.00  | 1               |
| M,p-Xylene   | Water  | S-8260B      | 304651                                                                             | 7/29/12    | <1.00  | 1               |
| o-Xylene     | Water  | S-8260B      | 304651                                                                             | 7/29/12    | <1.00  | 1               |

## 4.0 CONCLUSION

Although there are periodic anomalies in the gauging information for GMW-5, the sample results for GMW-5 when obtained are non-detect. Every other monitor well has been non-detect for well over eight consecutive quarters including the down gradient wells until GMW-7 went dry. However, down gradient well GMW-8 continued to be sampled and the results are non-detect.

In some instances, wells were not sampled during a specific sampling event due to the lack of enough free water in the well to collect a sample, however, in the next quarter or two, when a sample could be obtained, the results were non-detect.

This site has been active since 1998 and only three monitoring wells have ever indicated free product. Gauging data from GMW-5, the most down gradient well with product, indicates it has historically had the most free product. This well is now testing non-detect.

Therefore, Shell Exploration and Production respectfully requests that all sampling activities be stopped for these monitor wells and all site groundwater monitoring wells be plugged and abandoned per NMOCD guidelines.

# APPENDIX I

---

## TRACE ANALYSIS, INC. Laboratory Results 2008

Westgate Subdivision  
Grimes Battery & Tasker Road

**August 2012**

Shell Exploration & Production Company  
Houston, Texas

Prepared by:  
BBC International, Inc.

## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: March 28, 2008

Work Order: 8032404



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 154417 | MW #2       | water  | 2008-03-20 | 10:59      | 2008-03-22    |
| 154418 | MW #10      | water  | 2008-03-20 | 11:57      | 2008-03-22    |
| 154419 | MW #7       | water  | 2008-03-20 | 12:42      | 2008-03-22    |
| 154420 | MW #8       | water  | 2008-03-20 | 13:21      | 2008-03-22    |
| 154421 | MW #9       | water  | 2008-03-20 | 14:02      | 2008-03-22    |

### Sample: 154417 - MW #2

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

### Sample: 154418 - MW #10

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

### Sample: 154419 - MW #7

*continued ...*

*sample 154419 continued ...*

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Param        | Flag | Result | Units | RL   |
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

**Sample: 154420 - MW #8**

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

**Sample: 154421 - MW #9**

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |



5701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296  
200 East Sunset Road, Suite E El Paso, Texas 79922 688•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: March 28, 2008

Work Order: 8032404



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 154417 | MW #2       | water  | 2008-03-20 | 10:59      | 2008-03-22    |
| 154418 | MW #10      | water  | 2008-03-20 | 11:57      | 2008-03-22    |
| 154419 | MW #7       | water  | 2008-03-20 | 12:42      | 2008-03-22    |
| 154420 | MW #8       | water  | 2008-03-20 | 13:21      | 2008-03-22    |
| 154421 | MW #9       | water  | 2008-03-20 | 14:02      | 2008-03-22    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 7 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

### Standard Flags

**B** - The sample contains less than ten times the concentration found in the method blank.



## Analytical Report

### Sample: 154417 - MW #2

Analysis: Volatiles  
QC Batch: 46878  
Prep Batch: 40321

Analytical Method: S 8260B  
Date Analyzed: 2008-03-26  
Sample Preparation: 2008-03-26

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 52.5   | µg/L  | 1        | 50.0            | 105                 | 89.8 - 111         |
| Toluene-d8                   |      | 50.0   | µg/L  | 1        | 50.0            | 100                 | 93.2 - 108         |
| 4-Bromofluorobenzene (4-BFB) |      | 48.7   | µg/L  | 1        | 50.0            | 97                  | 88.4 - 103         |

### Sample: 154418 - MW #10

Analysis: Volatiles  
QC Batch: 46878  
Prep Batch: 40321

Analytical Method: S 8260B  
Date Analyzed: 2008-03-26  
Sample Preparation: 2008-03-26

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 52.5   | µg/L  | 1        | 50.0            | 105                 | 89.8 - 111         |
| Toluene-d8                   |      | 49.8   | µg/L  | 1        | 50.0            | 100                 | 93.2 - 108         |
| 4-Bromofluorobenzene (4-BFB) |      | 48.4   | µg/L  | 1        | 50.0            | 97                  | 88.4 - 103         |

### Sample: 154419 - MW #7

Analysis: Volatiles  
QC Batch: 46841  
Prep Batch: 40292

Analytical Method: S 8260B  
Date Analyzed: 2008-03-25  
Sample Preparation: 2008-03-25

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: JG

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Benzene   |      | <1.00        | µg/L  | 1        | 1.00 |

*continued ...*

sample 154419 continued ...

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 52.6   | µg/L  | 1        | 50.0            | 105                 | 89.8 - 111         |
| Toluene-d8                   |      | 50.8   | µg/L  | 1        | 50.0            | 102                 | 93.2 - 108         |
| 4-Bromofluorobenzene (4-BFB) |      | 48.3   | µg/L  | 1        | 50.0            | 97                  | 88.4 - 103         |

**Sample: 154420 - MW #8**

Analysis: Volatiles  
QC Batch: 46878  
Prep Batch: 40321

Analytical Method: S 8260B  
Date Analyzed: 2008-03-26  
Sample Preparation: 2008-03-26

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 51.9   | µg/L  | 1        | 50.0            | 104                 | 89.8 - 111         |
| Toluene-d8                   |      | 50.3   | µg/L  | 1        | 50.0            | 101                 | 93.2 - 108         |
| 4-Bromofluorobenzene (4-BFB) |      | 48.2   | µg/L  | 1        | 50.0            | 96                  | 88.4 - 103         |

**Sample: 154421 - MW #9**

Analysis: Volatiles  
QC Batch: 46878  
Prep Batch: 40321

Analytical Method: S 8260B  
Date Analyzed: 2008-03-26  
Sample Preparation: 2008-03-26

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      | 52.3   | µg/L  | 1        | 50.0         | 105              | 89.8 - 111      |
| Toluene-d8                   |      | 50.4   | µg/L  | 1        | 50.0         | 101              | 93.2 - 108      |
| 4-Bromofluorobenzene (4-BFB) |      | 49.8   | µg/L  | 1        | 50.0         | 100              | 88.4 - 103      |

**Method Blank (1)**      QC Batch: 46841

QC Batch: 46841  
Prep Batch: 40292

Date Analyzed: 2008-03-25  
QC Preparation: 2008-03-25

Analyzed By: KB  
Prepared By: JG

| Parameter    | Flag | MDL Result | Units | RL |
|--------------|------|------------|-------|----|
| Benzene      |      | <0.319     | µg/L  | 1  |
| Toluene      |      | <0.268     | µg/L  | 1  |
| Ethylbenzene |      | <0.245     | µg/L  | 1  |
| m,p-Xylene   |      | <0.517     | µg/L  | 1  |
| o-Xylene     |      | <0.247     | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      | 51.2   | µg/L  | 1        | 50.0         | 102              | 89.8 - 111      |
| Toluene-d8                   |      | 50.8   | µg/L  | 1        | 50.0         | 102              | 93.2 - 108      |
| 4-Bromofluorobenzene (4-BFB) |      | 48.8   | µg/L  | 1        | 50.0         | 98               | 88.4 - 103      |

**Method Blank (1)**      QC Batch: 46878

QC Batch: 46878  
Prep Batch: 40321

Date Analyzed: 2008-03-26  
QC Preparation: 2008-03-26

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | MDL Result | Units | RL |
|--------------|------|------------|-------|----|
| Benzene      |      | <0.319     | µg/L  | 1  |
| Toluene      |      | <0.268     | µg/L  | 1  |
| Ethylbenzene |      | <0.245     | µg/L  | 1  |
| m,p-Xylene   |      | <0.517     | µg/L  | 1  |
| o-Xylene     |      | <0.247     | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      | 51.5   | µg/L  | 1        | 50.0         | 103              | 89.8 - 111      |
| Toluene-d8                   |      | 49.7   | µg/L  | 1        | 50.0         | 99               | 93.2 - 108      |
| 4-Bromofluorobenzene (4-BFB) |      | 48.2   | µg/L  | 1        | 50.0         | 96               | 88.4 - 103      |

**Laboratory Control Spike (LCS-1)**

QC Batch: 46841  
Prep Batch: 40292

Date Analyzed: 2008-03-25  
QC Preparation: 2008-03-25

Analyzed By: KB  
Prepared By: JG

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|------------|-------|------|--------------|---------------|------|------------|
| Benzene      | 53.7       | µg/L  | 1    | 50.0         | <0.319        | 107  | 87.6 - 107 |
| Toluene      | 53.1       | µg/L  | 1    | 50.0         | <0.268        | 106  | 91.3 - 110 |
| Ethylbenzene | 53.6       | µg/L  | 1    | 50.0         | <0.245        | 107  | 90.5 - 107 |
| m,p-Xylene   | 108        | µg/L  | 1    | 100          | <0.517        | 108  | 89.5 - 111 |
| o-Xylene     | 54.9       | µg/L  | 1    | 50.0         | <0.247        | 110  | 91.2 - 112 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene      | 52.6        | µg/L  | 1    | 50.0         | <0.319        | 105  | 87.6 - 107 | 2   | 20        |
| Toluene      | 51.6        | µg/L  | 1    | 50.0         | <0.268        | 103  | 91.3 - 110 | 3   | 20        |
| Ethylbenzene | 52.0        | µg/L  | 1    | 50.0         | <0.245        | 104  | 90.5 - 107 | 3   | 20        |
| m,p-Xylene   | 106         | µg/L  | 1    | 100          | <0.517        | 106  | 89.5 - 111 | 2   | 20        |
| o-Xylene     | 53.7        | µg/L  | 1    | 50.0         | <0.247        | 107  | 91.2 - 112 | 2   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                                  | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|--------------------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Dibromofluoromethane                       | 52.1       | 51.6        | µg/L  | 1    | 50.0         | 104      | 103       | 89.5 - 107 |
| Toluene-d8                                 | 49.7       | 49.3        | µg/L  | 1    | 50.0         | 99       | 99        | 92.6 - 102 |
| 4-Bromofluorobenzene (4-BFB) <sup>12</sup> | 53.3       | 52.6        | µg/L  | 1    | 50.0         | 107      | 105       | 95.2 - 103 |

#### Laboratory Control Spike (LCS-1)

QC Batch: 46878  
Prep Batch: 40321

Date Analyzed: 2008-03-26  
QC Preparation: 2008-03-26

Analyzed By: KB  
Prepared By: KB

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|------------|-------|------|--------------|---------------|------|------------|
| Benzene      | 51.2       | µg/L  | 1    | 50.0         | <0.319        | 102  | 87.6 - 107 |
| Toluene      | 50.3       | µg/L  | 1    | 50.0         | <0.268        | 101  | 91.3 - 110 |
| Ethylbenzene | 49.9       | µg/L  | 1    | 50.0         | <0.245        | 100  | 90.5 - 107 |
| m,p-Xylene   | 101        | µg/L  | 1    | 100          | <0.517        | 101  | 89.5 - 111 |
| o-Xylene     | 51.2       | µg/L  | 1    | 50.0         | <0.247        | 102  | 91.2 - 112 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene      | 52.1        | µg/L  | 1    | 50.0         | <0.319        | 104  | 87.6 - 107 | 2   | 20        |
| Toluene      | 51.1        | µg/L  | 1    | 50.0         | <0.268        | 102  | 91.3 - 110 | 2   | 20        |
| Ethylbenzene | 50.8        | µg/L  | 1    | 50.0         | <0.245        | 102  | 90.5 - 107 | 2   | 20        |
| m,p-Xylene   | 103         | µg/L  | 1    | 100          | <0.517        | 103  | 89.5 - 111 | 2   | 20        |
| o-Xylene     | 51.8        | µg/L  | 1    | 50.0         | <0.247        | 104  | 91.2 - 112 | 1   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

*continued ...*

<sup>1</sup>8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

<sup>2</sup>8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

control spikes continued ...

| Surrogate                                  | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|--------------------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Surrogate                                  | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
| Dibromofluoromethane                       | 52.3          | 52.2           | µg/L  | 1    | 50.0            | 105         | 104          | 89.5 - 107    |
| Toluene-d8                                 | 49.3          | 48.7           | µg/L  | 1    | 50.0            | 99          | 97           | 92.6 - 102    |
| 4-Bromofluorobenzene (4-BFB) <sup>34</sup> | 52.9          | 52.4           | µg/L  | 1    | 50.0            | 106         | 105          | 95.2 - 103    |

Matrix Spike (MS-1) Spiked Sample: 154421

QC Batch: 46878  
Prep Batch: 40321

Date Analyzed: 2008-03-26  
QC Preparation: 2008-03-26

Analyzed By: KB  
Prepared By: KB

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 53.9         | µg/L  | 1    | 50.0            | <0.319           | 108  | 80.2 - 114    |
| Toluene      | 50.5         | µg/L  | 1    | 50.0            | <0.268           | 101  | 87.5 - 112    |
| Ethylbenzene | 45.2         | µg/L  | 1    | 50.0            | 0.28             | 90   | 74.6 - 118    |
| m,p-Xylene   | 90.6         | µg/L  | 1    | 100             | <0.517           | 91   | 72.9 - 120    |
| o-Xylene     | 45.9         | µg/L  | 1    | 50.0            | <0.247           | 92   | 74.1 - 123    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 50.3          | µg/L  | 1    | 50.0            | <0.319           | 101  | 80.2 - 114    | 7   | 20           |
| Toluene      | 46.9          | µg/L  | 1    | 50.0            | <0.268           | 94   | 87.5 - 112    | 7   | 20           |
| Ethylbenzene | 43.3          | µg/L  | 1    | 50.0            | 0.28             | 86   | 74.6 - 118    | 4   | 20           |
| m,p-Xylene   | 86.7          | µg/L  | 1    | 100             | <0.517           | 87   | 72.9 - 120    | 4   | 20           |
| o-Xylene     | 44.0          | µg/L  | 1    | 50.0            | <0.247           | 88   | 74.1 - 123    | 4   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 52.0         | 52.3          | µg/L  | 1    | 50              | 104        | 105         | 91.5 - 112    |
| Toluene-d8                   | 48.5         | 49.0          | µg/L  | 1    | 50              | 97         | 98          | 90.6 - 105    |
| 4-Bromofluorobenzene (4-BFB) | 52.4         | 51.9          | µg/L  | 1    | 50              | 105        | 104         | 88.7 - 112    |

Standard (CCV-1)

QC Batch: 46841

Date Analyzed: 2008-03-25

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | µg/L  | 50.0                  | 53.5                   | 107                         | 70 - 130                      | 2008-03-25       |
| Toluene      |      | µg/L  | 50.0                  | 53.4                   | 107                         | 80 - 120                      | 2008-03-25       |
| Ethylbenzene |      | µg/L  | 50.0                  | 53.3                   | 107                         | 80 - 120                      | 2008-03-25       |

continued ...

<sup>3</sup>8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

<sup>4</sup>8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

standard continued ...

| Param      | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| m,p-Xylene |      | µg/L  | 100                   | 108                    | 108                         | 70 - 130                      | 2008-03-25       |
| o-Xylene   |      | µg/L  | 50.0                  | 54.6                   | 109                         | 70 - 130                      | 2008-03-25       |

**Standard (CCV-1)**

QC Batch: 46878

Date Analyzed: 2008-03-26

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | µg/L  | 50.0                  | 49.8                   | 100                         | 70 - 130                      | 2008-03-26       |
| Toluene      |      | µg/L  | 50.0                  | 48.5                   | 97                          | 80 - 120                      | 2008-03-26       |
| Ethylbenzene |      | µg/L  | 50.0                  | 48.6                   | 97                          | 80 - 120                      | 2008-03-26       |
| m,p-Xylene   |      | µg/L  | 100                   | 97.6                   | 98                          | 70 - 130                      | 2008-03-26       |
| o-Xylene     |      | µg/L  | 50.0                  | 49.6                   | 99                          | 70 - 130                      | 2008-03-26       |

LAB Order ID # 8032404

Page of

# TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

8808 Camp Bowie Blvd. West, Suite 1  
Ft. Worth, Texas 76116  
Tel (817) 201-5260  
Fax (817) 560-4336

Company Name: BBC International Phone #: (505) 397-6388  
Address: 1324 W. MacLan (Street, City, Zip) Fax #: (505) 397-0377  
Contact Person: Cliff Brunson E-mail: cliff@bbci.com  
Invoice to: Cliff Brunson  
Project #: 8032404  
Project Name: Wastgate  
Project Location (including state): Hobbs NM  
Sampler Signature: [Signature]

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     |      | SAMPLING |         | DATE  | TIME |
|-------------------------|------------|--------------|-----------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|------|----------|---------|-------|------|
|                         |            |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE | DATE     | TIME    |       |      |
| 15447                   | MW # 2     | 3            | VOA             | X      |      |     |        | X                   |                  |                                |      | X   |      |          | 3/20/08 | 10:59 |      |
| 418                     | MW # 10    | 3            | VOA             | X      |      |     |        | X                   |                  |                                |      | X   |      |          | 3/20/08 | 11:57 |      |
| 419                     | MW # 7     | 3            | VOA             | X      |      |     |        | X                   |                  |                                |      | X   |      |          | 3/20/08 | 12:40 |      |
| 420                     | MW # 8     | 3            | VOA             | X      |      |     |        | X                   |                  |                                |      | X   |      |          | 3/20/08 | 11:21 |      |
| 421                     | MW # 9     | 3            | VOA             | X      |      |     |        | X                   |                  |                                |      | X   |      |          | 3/20/08 | 2:02  |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |         |       |      |

|                                     |                     |                      |                   |                                 |          |                      |                    |
|-------------------------------------|---------------------|----------------------|-------------------|---------------------------------|----------|----------------------|--------------------|
| Relinquished by: <u>[Signature]</u> | Company: <u>BBC</u> | Date: <u>3-21-08</u> | Time: <u>9:13</u> | Received by:                    | Company: | Date:                | Temp °C:           |
| Relinquished by:                    | Company:            | Date:                | Time:             | Received by:                    | Company: | Date:                | Temp °C:           |
| Relinquished by:                    | Company:            | Date:                | Time:             | Received by: <u>[Signature]</u> | Company: | Date: <u>3/20/08</u> | Temp °C: <u>21</u> |

LAB USE ONLY  
Inlet: 0.7 N  
Headspace: Y/N  
Login/Review: [Signature]

REMARKS:

☐ Dry Weight Basis Required  
☐ TRRP Report Required  
☐ Check If Special Reporting Limits Are Needed

## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: July 7, 2008

Work Order: 8063024



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 165218 | MW #2       | water  | 2008-06-26 | 13:19      | 2008-06-28    |
| 165219 | MW #10      | water  | 2008-06-26 | 14:10      | 2008-06-28    |
| 165220 | MW #8       | water  | 2008-06-26 | 14:58      | 2008-06-28    |
| 165221 | MW #9       | water  | 2008-06-26 | 15:40      | 2008-06-28    |

**Sample: 165218 - MW #2**

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

**Sample: 165219 - MW #10**

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |



**Sample: 165220 - MW #8**

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

**Sample: 165221 - MW #9**

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
200 East Sunset Road, Suite E  
5002 Basin Street, Suite A1  
8808 Camp Bowie Blvd. West, Suite 180

Lubbock, Texas 79424 800•378•1296  
El Paso, Texas 79922 888•588•3443  
Midland, Texas 79703  
Ft. Worth, Texas 76116  
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298  
915•585•3443 FAX 915•585•4944  
432•689•6301 FAX 432•689•6313  
817•201•5260 FAX 817•560•4336

## NELAP Certifications

Lubbock T104704219-08-TX

El Paso T104704221-08-TX

Midland T104704392-08-TX

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: July 7, 2008

Work Order: 8063024



GL: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 165218 | MW #2       | water  | 2008-06-26 | 13:19      | 2008-06-28    |
| 165219 | MW #10      | water  | 2008-06-26 | 14:10      | 2008-06-28    |
| 165220 | MW #8       | water  | 2008-06-26 | 14:58      | 2008-06-28    |
| 165221 | MW #9       | water  | 2008-06-26 | 15:40      | 2008-06-28    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

### Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Westgate were received by TraceAnalysis, Inc. on 2008-06-28 and assigned to work order 8063024. Samples for work order 8063024 were received intact without headspace and at a temperature of 4.0 deg. C.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method  |
|-----------|---------|
| Volatiles | S 8260B |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 8063024 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

## Analytical Report

### Sample: 165218 - MW #2

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 49935  
Prep Batch: 42860

Analytical Method: S 8260B  
Date Analyzed: 2008-07-01  
Sample Preparation: 2008-07-01

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag         | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |              | 50.9   | µg/L  | 1        | 50.0            | 102                 | 89.8 - 111         |
| Toluene-d8                   |              | 50.8   | µg/L  | 1        | 50.0            | 102                 | 93.2 - 108         |
| 4-Bromofluorobenzene (4-BFB) | <sup>1</sup> | 41.0   | µg/L  | 1        | 50.0            | 82                  | 88.4 - 103         |

### Sample: 165219 - MW #10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 49972  
Prep Batch: 42894

Analytical Method: S 8260B  
Date Analyzed: 2008-07-02  
Sample Preparation: 2008-07-02

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag         | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|--------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |              | 52.2   | µg/L  | 1        | 50.0            | 104                 | 89.8 - 111         |
| Toluene-d8                   |              | 50.2   | µg/L  | 1        | 50.0            | 100                 | 93.2 - 108         |
| 4-Bromofluorobenzene (4-BFB) | <sup>2</sup> | 38.4   | µg/L  | 1        | 50.0            | 77                  | 88.4 - 103         |

<sup>1</sup>8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

<sup>2</sup>8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

Report Date: July 7, 2008  
Westgate

Work Order: 8063024  
Westgate

Page Number: 4 of 12  
Hobbs, NM

**Sample: 165220 - MW #8**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 49972  
Prep Batch: 42894

Analytical Method: S 8260B  
Date Analyzed: 2008-07-02  
Sample Preparation: 2008-07-02

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 53.6   | µg/L  | 1        | 50.0            | 107                 | 89.8 - 111         |
| Toluene-d8                   |      | 51.3   | µg/L  | 1        | 50.0            | 103                 | 93.2 - 108         |
| 4-Bromofluorobenzene (4-BFB) | 3    | 39.2   | µg/L  | 1        | 50.0            | 78                  | 88.4 - 103         |

**Sample: 165221 - MW #9**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 50015  
Prep Batch: 42934

Analytical Method: S 8260B  
Date Analyzed: 2008-07-03  
Sample Preparation: 2008-07-03

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 48.7   | µg/L  | 1        | 50.0            | 97                  | 89.8 - 111         |
| Toluene-d8                   |      | 51.9   | µg/L  | 1        | 50.0            | 104                 | 93.2 - 108         |
| 4-Bromofluorobenzene (4-BFB) | 4    | 43.7   | µg/L  | 1        | 50.0            | 87                  | 88.4 - 103         |

<sup>3</sup>8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

<sup>4</sup>8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

Report Date: July 7, 2008  
Westgate

Work Order: 8063024  
Westgate

Page Number: 5 of 12  
Hobbs, NM

Method Blank (1) QC Batch: 49935

QC Batch: 49935  
Prep Batch: 42860

Date Analyzed: 2008-07-01  
QC Preparation: 2008-07-01

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | MDL<br>Result | Units | RL |
|--------------|------|---------------|-------|----|
| MTBE         |      | <0.318        | µg/L  | 1  |
| Benzene      |      | <0.319        | µg/L  | 1  |
| Toluene      |      | <0.268        | µg/L  | 1  |
| Ethylbenzene |      | <0.245        | µg/L  | 1  |
| m,p-Xylene   |      | <0.517        | µg/L  | 1  |
| o-Xylene     |      | <0.247        | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 50.0   | µg/L  | 1        | 50.0            | 100                 | 89.8 - 111         |
| Toluene-d8                   |      | 50.9   | µg/L  | 1        | 50.0            | 102                 | 93.2 - 108         |
| 4-Bromofluorobenzene (4-BFB) | 5    | 40.8   | µg/L  | 1        | 50.0            | 82                  | 88.4 - 103         |

Method Blank (1) QC Batch: 49972

QC Batch: 49972  
Prep Batch: 42894

Date Analyzed: 2008-07-02  
QC Preparation: 2008-07-02

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | MDL<br>Result | Units | RL |
|--------------|------|---------------|-------|----|
| MTBE         |      | <0.318        | µg/L  | 1  |
| Benzene      |      | <0.319        | µg/L  | 1  |
| Toluene      |      | <0.268        | µg/L  | 1  |
| Ethylbenzene |      | <0.245        | µg/L  | 1  |
| m,p-Xylene   |      | <0.517        | µg/L  | 1  |
| o-Xylene     |      | <0.247        | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 52.4   | µg/L  | 1        | 50.0            | 105                 | 89.8 - 111         |
| Toluene-d8                   |      | 51.1   | µg/L  | 1        | 50.0            | 102                 | 93.2 - 108         |
| 4-Bromofluorobenzene (4-BFB) | 6    | 39.6   | µg/L  | 1        | 50.0            | 79                  | 88.4 - 103         |

<sup>5</sup>8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

<sup>6</sup>8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

Method Blank (1) QC Batch: 50015

QC Batch: 50015  
Prep Batch: 42934

Date Analyzed: 2008-07-03  
QC Preparation: 2008-07-03

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | MDL<br>Result | Units | RL |
|--------------|------|---------------|-------|----|
| MTBE         |      | <0.318        | µg/L  | 1  |
| Benzene      |      | <0.319        | µg/L  | 1  |
| Toluene      |      | <0.268        | µg/L  | 1  |
| Ethylbenzene |      | <0.245        | µg/L  | 1  |
| m,p-Xylene   |      | <0.517        | µg/L  | 1  |
| o-Xylene     |      | 0.560         | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 47.8   | µg/L  | 1        | 50.0            | 96                  | 89.8 - 111         |
| Toluene-d8                   |      | 52.6   | µg/L  | 1        | 50.0            | 105                 | 93.2 - 108         |
| 4-Bromofluorobenzene (4-BFB) | 7    | 43.7   | µg/L  | 1        | 50.0            | 87                  | 88.4 - 103         |

Laboratory Control Spike (LCS-1)

QC Batch: 49935  
Prep Batch: 42860

Date Analyzed: 2008-07-01  
QC Preparation: 2008-07-01

Analyzed By: KB  
Prepared By: KB

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| MTBE         | 59.0          | µg/L  | 1    | 50.0            | <0.318           | 118  | 88.3 - 115    |
| Benzene      | 51.9          | µg/L  | 1    | 50.0            | <0.319           | 104  | 87.6 - 107    |
| Toluene      | 51.6          | µg/L  | 1    | 50.0            | <0.268           | 103  | 91.3 - 110    |
| Ethylbenzene | 55.0          | µg/L  | 1    | 50.0            | <0.245           | 110  | 90.5 - 107    |
| m,p-Xylene   | 111           | µg/L  | 1    | 100             | <0.517           | 111  | 89.5 - 111    |
| o-Xylene     | 56.2          | µg/L  | 1    | 50.0            | <0.247           | 112  | 91.2 - 112    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| MTBE         | 57.7           | µg/L  | 1    | 50.0            | <0.318           | 115  | 88.3 - 115    | 2   | 20           |
| Benzene      | 50.8           | µg/L  | 1    | 50.0            | <0.319           | 102  | 87.6 - 107    | 2   | 20           |
| Toluene      | 50.2           | µg/L  | 1    | 50.0            | <0.268           | 100  | 91.3 - 110    | 3   | 20           |
| Ethylbenzene | 52.9           | µg/L  | 1    | 50.0            | <0.245           | 106  | 90.5 - 107    | 4   | 20           |

continued ...

<sup>7</sup>8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

<sup>8</sup>Spike recovery outside control limits but within method limits. Majority of analytes have recoveries within limits showing the method to be in control. •

<sup>9</sup>Spike recovery outside control limits but within method limits. Majority of analytes have recoveries within limits showing the method to be in control. •

control spikes continued ...

| Param      | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| m,p-Xylene | 108           | µg/L  | 1    | 100             | <0.517           | 108  | 89.5 - 111    | 3   | 20           |
| o-Xylene   | 53.9          | µg/L  | 1    | 50.0            | <0.247           | 108  | 91.2 - 112    | 4   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Dibromofluoromethane         | 49.6          | 49.0          | µg/L  | 1    | 50.0            | 99          | 98          | 89.5 - 107    |
| Toluene-d8                   | 47.7          | 46.7          | µg/L  | 1    | 50.0            | 95          | 93          | 92.6 - 102    |
| 4-Bromofluorobenzene (4-BFB) | 1011 47.3     | 46.5          | µg/L  | 1    | 50.0            | 95          | 93          | 95.2 - 103    |

### Laboratory Control Spike (LCS-1)

QC Batch: 49972  
Prep Batch: 42894

Date Analyzed: 2008-07-02  
QC Preparation: 2008-07-02

Analyzed By: KB  
Prepared By: KB

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| MTBE         | 12 63.0       | µg/L  | 1    | 50.0            | <0.318           | 126  | 88.3 - 115    |
| Benzene      | 13 55.1       | µg/L  | 1    | 50.0            | <0.319           | 110  | 87.6 - 107    |
| Toluene      | 54.8          | µg/L  | 1    | 50.0            | <0.268           | 110  | 91.3 - 110    |
| Ethylbenzene | 14 57.5       | µg/L  | 1    | 50.0            | <0.245           | 115  | 90.5 - 107    |
| m,p-Xylene   | 15 116        | µg/L  | 1    | 100             | <0.517           | 116  | 89.5 - 111    |
| o-Xylene     | 16 58.2       | µg/L  | 1    | 50.0            | <0.247           | 116  | 91.2 - 112    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| MTBE         | 17 63.8       | µg/L  | 1    | 50.0            | <0.318           | 128  | 88.3 - 115    | 1   | 20           |
| Benzene      | 18 55.1       | µg/L  | 1    | 50.0            | <0.319           | 110  | 87.6 - 107    | 0   | 20           |
| Toluene      | 55.1          | µg/L  | 1    | 50.0            | <0.268           | 110  | 91.3 - 110    | 0   | 20           |
| Ethylbenzene | 19 57.0       | µg/L  | 1    | 50.0            | <0.245           | 114  | 90.5 - 107    | 1   | 20           |
| m,p-Xylene   | 20 116        | µg/L  | 1    | 100             | <0.517           | 116  | 89.5 - 111    | 0   | 20           |

continued ...

<sup>10</sup>8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

<sup>11</sup>8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

<sup>12</sup>Spike recovery outside of control limits, but within method limits. •

<sup>13</sup>Spike recovery outside of control limits, but within method limits. •

<sup>14</sup>Spike recovery outside of control limits, but within method limits. •

<sup>15</sup>Spike recovery outside of control limits, but within method limits. •

<sup>16</sup>Spike recovery outside of control limits, but within method limits. •

<sup>17</sup>Spike recovery outside of control limits, but within method limits. RPD within RPD limits. •

<sup>18</sup>Spike recovery outside of control limits, but within method limits. RPD within RPD limits. •

<sup>19</sup>Spike recovery outside of control limits, but within method limits. RPD within RPD limits. •

<sup>20</sup>Spike recovery outside of control limits, but within method limits. RPD within RPD limits. •



control spikes continued ...

| Param    |               | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| o-Xylene | <sup>21</sup> | 58.0          | µg/L  | 1    | 50.0            | <0.247           | 116  | 91.2 - 112    | 0   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    |                 | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|-----------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Dibromofluoromethane         |                 | 51.2          | 50.1          | µg/L  | 1    | 50.0            | 102         | 100         | 89.5 - 107    |
| Toluene-d8                   |                 | 47.4          | 48.0          | µg/L  | 1    | 50.0            | 95          | 96          | 92.6 - 102    |
| 4-Bromofluorobenzene (4-BFB) | <sup>2223</sup> | 46.8          | 46.4          | µg/L  | 1    | 50.0            | 94          | 93          | 95.2 - 103    |

#### Laboratory Control Spike (LCS-1)

QC Batch: 50015  
Prep Batch: 42934

Date Analyzed: 2008-07-03  
QC Preparation: 2008-07-03

Analyzed By: KB  
Prepared By: KB

| Param        |               | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|---------------|-------|------|-----------------|------------------|------|---------------|
| MTBE         | <sup>24</sup> | 58.0          | µg/L  | 1    | 50.0            | <0.318           | 116  | 88.3 - 115    |
| Benzene      |               | 51.8          | µg/L  | 1    | 50.0            | <0.319           | 104  | 87.6 - 107    |
| Toluene      |               | 52.4          | µg/L  | 1    | 50.0            | <0.268           | 105  | 91.3 - 110    |
| Ethylbenzene |               | 53.6          | µg/L  | 1    | 50.0            | <0.245           | 107  | 90.5 - 107    |
| m,p-Xylene   |               | 110           | µg/L  | 1    | 100             | <0.517           | 110  | 89.5 - 111    |
| o-Xylene     |               | 50.1          | µg/L  | 1    | 50.0            | 0.56             | 100  | 91.2 - 112    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        |               | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| MTBE         | <sup>25</sup> | 59.3          | µg/L  | 1    | 50.0            | <0.318           | 119  | 88.3 - 115    | 2   | 20           |
| Benzene      |               | 51.5          | µg/L  | 1    | 50.0            | <0.319           | 103  | 87.6 - 107    | 1   | 20           |
| Toluene      |               | 51.6          | µg/L  | 1    | 50.0            | <0.268           | 103  | 91.3 - 110    | 2   | 20           |
| Ethylbenzene |               | 53.4          | µg/L  | 1    | 50.0            | <0.245           | 107  | 90.5 - 107    | 0   | 20           |
| m,p-Xylene   |               | 109           | µg/L  | 1    | 100             | <0.517           | 109  | 89.5 - 111    | 1   | 20           |
| o-Xylene     |               | 50.0          | µg/L  | 1    | 50.0            | 0.56             | 100  | 91.2 - 112    | 0   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

<sup>21</sup>Spike recovery outside of control limits, but within method limits. RPD within RPD limits. •

<sup>22</sup>8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

<sup>23</sup>8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

<sup>24</sup>Spike recovery outside control limits but within method limits. Majority of analytes have recoveries within limits showing the analysis to be in control. •

<sup>25</sup>Spike recovery outside control limits but within method limits. Majority of analytes have recoveries within limits showing the analysis to be in control. RPD within RPD limits. •

Report Date: July 7, 2008  
Westgate

Work Order: 8063024  
Westgate

Page Number: 9 of 12  
Hobbs, NM

control spikes continued ...

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
| Dibromofluoromethane         | 46.4          | 46.3           | µg/L  | 1    | 50.0            | 93          | 93           | 89.5 - 107    |
| Toluene-d8                   | 48.9          | 48.3           | µg/L  | 1    | 50.0            | 98          | 97           | 92.6 - 102    |
| 4-Bromofluorobenzene (4-BFB) | 51.0          | 51.5           | µg/L  | 1    | 50.0            | 102         | 103          | 95.2 - 103    |

**Matrix Spike (MS-1)** Spiked Sample: 165218

QC Batch: 49935  
Prep Batch: 42860

Date Analyzed: 2008-07-01  
QC Preparation: 2008-07-01

Analyzed By: KB  
Prepared By: KB

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| MTBE         | 59.4         | µg/L  | 1    | 50.0            | <0.318           | 119  | 73.5 - 125    |
| Benzene      | 52.0         | µg/L  | 1    | 50.0            | <0.319           | 104  | 80.2 - 114    |
| Toluene      | 51.9         | µg/L  | 1    | 50.0            | <0.268           | 104  | 87.5 - 112    |
| Ethylbenzene | 53.7         | µg/L  | 1    | 50.0            | <0.245           | 107  | 74.6 - 118    |
| m,p-Xylene   | 109          | µg/L  | 1    | 100             | <0.517           | 109  | 72.9 - 120    |
| o-Xylene     | 54.7         | µg/L  | 1    | 50.0            | <0.247           | 109  | 74.1 - 123    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| MTBE         | 54.6          | µg/L  | 1    | 50.0            | <0.318           | 109  | 73.5 - 125    | 8   | 20           |
| Benzene      | 51.1          | µg/L  | 1    | 50.0            | <0.319           | 102  | 80.2 - 114    | 2   | 20           |
| Toluene      | 50.9          | µg/L  | 1    | 50.0            | <0.268           | 102  | 87.5 - 112    | 2   | 20           |
| Ethylbenzene | 52.4          | µg/L  | 1    | 50.0            | <0.245           | 105  | 74.6 - 118    | 2   | 20           |
| m,p-Xylene   | 106           | µg/L  | 1    | 100             | <0.517           | 106  | 72.9 - 120    | 3   | 20           |
| o-Xylene     | 53.3          | µg/L  | 1    | 50.0            | <0.247           | 107  | 74.1 - 123    | 3   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 48.5         | 47.9          | µg/L  | 1    | 50              | 97         | 96          | 91.5 - 112    |
| Toluene-d8                   | 47.3         | 47.2          | µg/L  | 1    | 50              | 95         | 94          | 90.6 - 105    |
| 4-Bromofluorobenzene (4-BFB) | 47.1         | 46.4          | µg/L  | 1    | 50              | 94         | 93          | 88.7 - 112    |

**Matrix Spike (MS-1)** Spiked Sample: 165329

QC Batch: 49972  
Prep Batch: 42894

Date Analyzed: 2008-07-02  
QC Preparation: 2008-07-02

Analyzed By: KB  
Prepared By: KB

| Param        | MS Result          | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|--------------------|-------|------|--------------|---------------|------|------------|
| MTBE         | <sup>26</sup> 63.0 | µg/L  | 1    | 50.0         | <0.318        | 126  | 73.5 - 125 |
| Benzene      | 52.2               | µg/L  | 1    | 50.0         | <0.319        | 104  | 80.2 - 114 |
| Toluene      | 51.4               | µg/L  | 1    | 50.0         | <0.268        | 103  | 87.5 - 112 |
| Ethylbenzene | 53.4               | µg/L  | 1    | 50.0         | <0.245        | 107  | 74.6 - 118 |
| m,p-Xylene   | 109                | µg/L  | 1    | 100          | <0.517        | 109  | 72.9 - 120 |
| o-Xylene     | 54.6               | µg/L  | 1    | 50.0         | <0.247        | 109  | 74.1 - 123 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD Result         | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|--------------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| MTBE         | <sup>27</sup> 64.6 | µg/L  | 1    | 50.0         | <0.318        | 129  | 73.5 - 125 | 2   | 20        |
| Benzene      | 54.5               | µg/L  | 1    | 50.0         | <0.319        | 109  | 80.2 - 114 | 4   | 20        |
| Toluene      | 53.3               | µg/L  | 1    | 50.0         | <0.268        | 107  | 87.5 - 112 | 4   | 20        |
| Ethylbenzene | 55.5               | µg/L  | 1    | 50.0         | <0.245        | 111  | 74.6 - 118 | 4   | 20        |
| m,p-Xylene   | 112                | µg/L  | 1    | 100          | <0.517        | 112  | 72.9 - 120 | 3   | 20        |
| o-Xylene     | 56.6               | µg/L  | 1    | 50.0         | <0.247        | 113  | 74.1 - 123 | 4   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Dibromofluoromethane         | 51.8      | 51.1       | µg/L  | 1    | 50           | 104     | 102      | 91.5 - 112 |
| Toluene-d8                   | 48.2      | 47.7       | µg/L  | 1    | 50           | 96      | 95       | 90.6 - 105 |
| 4-Bromofluorobenzene (4-BFB) | 45.9      | 45.8       | µg/L  | 1    | 50           | 92      | 92       | 88.7 - 112 |

**Matrix Spike (MS-1)** Spiked Sample: 165495

QC Batch: 50015  
Prep Batch: 42934

Date Analyzed: 2008-07-03  
QC Preparation: 2008-07-03

Analyzed By: KB  
Prepared By: KB

| Param        | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|-----------|-------|------|--------------|---------------|------|------------|
| MTBE         | 59.2      | µg/L  | 1    | 50.0         | <0.318        | 118  | 73.5 - 125 |
| Benzene      | 53.8      | µg/L  | 1    | 50.0         | <0.319        | 108  | 80.2 - 114 |
| Toluene      | 54.2      | µg/L  | 1    | 50.0         | <0.268        | 108  | 87.5 - 112 |
| Ethylbenzene | 55.2      | µg/L  | 1    | 50.0         | <0.245        | 110  | 74.6 - 118 |
| m,p-Xylene   | 113       | µg/L  | 1    | 100          | <0.517        | 113  | 72.9 - 120 |
| o-Xylene     | 51.7      | µg/L  | 1    | 50.0         | 0.42          | 102  | 74.1 - 123 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

<sup>26</sup>Matrix spike recovery outside of control limits, but within method limits. Majority of analyte recoveries within limits showing analysis is in control. •

<sup>27</sup>Matrix spike recovery outside of control limits, but within method limits. Majority of analyte recoveries within limits showing analysis is in control. RPD within RPD limits. •

Report Date: July 7, 2008  
Westgate

Work Order: 8063024  
Westgate

Page Number: 11 of 12  
Hobbs, NM

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| MTBE         | 59.7          | µg/L  | 1    | 50.0            | <0.318           | 119  | 73.5 - 125    | 1   | 20           |
| Benzene      | 54.4          | µg/L  | 1    | 50.0            | <0.319           | 109  | 80.2 - 114    | 1   | 20           |
| Toluene      | 53.8          | µg/L  | 1    | 50.0            | <0.268           | 108  | 87.5 - 112    | 1   | 20           |
| Ethylbenzene | 55.7          | µg/L  | 1    | 50.0            | <0.245           | 111  | 74.6 - 118    | 1   | 20           |
| m,p-Xylene   | 113           | µg/L  | 1    | 100             | <0.517           | 113  | 72.9 - 120    | 0   | 20           |
| o-Xylene     | 51.8          | µg/L  | 1    | 50.0            | 0.42             | 103  | 74.1 - 123    | 0   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 48.1         | 47.8          | µg/L  | 1    | 50              | 96         | 96          | 91.5 - 112    |
| Toluene-d8                   | 48.5         | 49.0          | µg/L  | 1    | 50              | 97         | 98          | 90.6 - 105    |
| 4-Bromofluorobenzene (4-BFB) | 51.8         | 51.5          | µg/L  | 1    | 50              | 104        | 103         | 88.7 - 112    |

#### Standard (CCV-1)

QC Batch: 49935

Date Analyzed: 2008-07-01

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | µg/L  | 50.0                  | 52.7                   | 105                         | 70 - 130                      | 2008-07-01       |
| Benzene      |      | µg/L  | 50.0                  | 47.3                   | 95                          | 70 - 130                      | 2008-07-01       |
| Toluene      |      | µg/L  | 50.0                  | 47.4                   | 95                          | 80 - 120                      | 2008-07-01       |
| Ethylbenzene |      | µg/L  | 50.0                  | 49.7                   | 99                          | 80 - 120                      | 2008-07-01       |
| m,p-Xylene   |      | µg/L  | 100                   | 101                    | 101                         | 70 - 130                      | 2008-07-01       |
| o-Xylene     |      | µg/L  | 50.0                  | 50.8                   | 102                         | 70 - 130                      | 2008-07-01       |

#### Standard (CCV-1)

QC Batch: 49972

Date Analyzed: 2008-07-02

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | µg/L  | 50.0                  | 58.1                   | 116                         | 70 - 130                      | 2008-07-02       |
| Benzene      |      | µg/L  | 50.0                  | 54.0                   | 108                         | 70 - 130                      | 2008-07-02       |
| Toluene      |      | µg/L  | 50.0                  | 54.7                   | 109                         | 80 - 120                      | 2008-07-02       |
| Ethylbenzene |      | µg/L  | 50.0                  | 56.0                   | 112                         | 80 - 120                      | 2008-07-02       |
| m,p-Xylene   |      | µg/L  | 100                   | 115                    | 115                         | 70 - 130                      | 2008-07-02       |
| o-Xylene     |      | µg/L  | 50.0                  | 57.3                   | 115                         | 70 - 130                      | 2008-07-02       |

Report Date: July 7, 2008  
Westgate

Work Order: 8063024  
Westgate

Page Number: 12 of 12  
Hobbs, NM

Standard (CCV-1)

QC Batch: 50015

Date Analyzed: 2008-07-03

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | µg/L  | 50.0                  | 54.1                   | 108                         | 70 - 130                      | 2008-07-03       |
| Benzene      |      | µg/L  | 50.0                  | 48.2                   | 96                          | 70 - 130                      | 2008-07-03       |
| Toluene      |      | µg/L  | 50.0                  | 48.4                   | 97                          | 80 - 120                      | 2008-07-03       |
| Ethylbenzene |      | µg/L  | 50.0                  | 49.9                   | 100                         | 80 - 120                      | 2008-07-03       |
| m,p-Xylene   |      | µg/L  | 100                   | 102                    | 102                         | 70 - 130                      | 2008-07-03       |
| o-Xylene     |      | µg/L  | 50.0                  | 46.3                   | 93                          | 70 - 130                      | 2008-07-03       |

8063024

LAB Order ID #

Page 1 of 1

# TraceAnalysis, Inc.

email: lab@traceanalysis.com

5701 Aberdeen Avenue Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

200 East Sunset Rd. Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313

6015 Harris Pkwy. Suite 110  
Ft. Worth, Texas 76132  
Tel (817) 201-5260  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

Company Name: **BBC INTERNATIONAL** Phone #: **(505) 397 6388**  
Address: **1324 W MARLAND** Fax #: **(505) 397 0397**  
Contact Person: **Cliff Brunson** E-mail:  
Invoice to:  
(If different from above)  
Project #:

Project Name: **WESTGATE**  
Project Location (including state): **HOBBS NM**  
Sampler Signature: **[Signature]**

| LAB #  | FIELD CODE | # CONTAINERS | MATRIX |      |     | PRESERVATIVE METHOD |     |                  |                                |      | SAMPLING |                       |
|--------|------------|--------------|--------|------|-----|---------------------|-----|------------------|--------------------------------|------|----------|-----------------------|
|        |            |              | WATER  | SOIL | AIR | SLUDGE              | HCl | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE                  |
| 165218 | MW # 2     | 3            | VOA    | ✓    |     |                     | ✓   |                  |                                |      |          | DATE: 6-26 TIME: 1:19 |
| 219    | MW # 10    | 3            | VOA    | ✓    |     |                     | ✓   |                  |                                |      |          | DATE: 6-26 TIME: 2:10 |
| 220    | MW # 9     | 3            | VOA    | ✓    |     |                     | ✓   |                  |                                |      |          | DATE: 6-26 TIME: 2:58 |
| 221    | MW # 9     | 3            | VOA    | ✓    |     |                     | ✓   |                  |                                |      |          | DATE: 6-26 TIME: 3:40 |

## ANALYSIS REQUEST

(Circle or Specify Method No.)

|                                      |                              |   |
|--------------------------------------|------------------------------|---|
| MTBE                                 | 8021B / 602 / 8260B / 624    | ✓ |
| BTEX                                 | 8021B / 602 / 8260B / 624    | ✓ |
| TPH 418                              | 1 / TX1005 / TX1005 EXI(C35) | ✓ |
| TPH 8015                             | GRO / DRO / TVHC             | ✓ |
| PAH 8270C                            | / 625                        | ✓ |
| Total Metals Ag As Ba Cd Cr Pb Se Hg | 6010B/2007                   | ✓ |
| TCLP Metals Ag As Ba Cd Cr Pb Se Hg  |                              | ✓ |
| TCLP Volatiles                       |                              | ✓ |
| TCLP Semi Volatiles                  |                              | ✓ |
| TCLP Pesticides                      |                              | ✓ |
| RCI                                  |                              | ✓ |
| GC/MS Vol.                           | 8260B / 624                  | ✓ |
| GC/MS Semi. Vol.                     | 8270C / 625                  | ✓ |
| PCBs                                 | 8082 / 608                   | ✓ |
| Pesticides                           | 8081A / 608                  | ✓ |
| BOD TSS, pH                          |                              | ✓ |
| Moisture Content                     |                              | ✓ |
| Turn Around Time                     | if different from standard   |   |

## LAB USE ONLY

## REMARKS:

Intact ☒ N  
Headspace ☒ Y / ☒ N  
Temp ☒ 4°C  
Log-in-Review ☒ YES

Dry Weight Basis Required  
TRRP Report Required  
Check if Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

100-101-0000

Carrier # **3047605261**

8063024

LAB Order ID #

Page 1 of 1

# TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
T (800) 378-1296

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
T (888) 588-3443

6015 Harris Pkwy., Suite 110  
Ft. Worth, Texas 76132  
Tel (817) 201-5260

Company Name: **BBC INTERNATIONAL** Phone #: **(505) 397 6388**  
Address: **1324 W MARLAND** Fax #: **(505) 397 0397**  
Contact Person: **Cliff Brunson** E-mail:  
Invoice to:  
(If different from above)  
Project #:

Project Name: **WESTGATE**  
Sampler Signature: **[Signature]**  
Project Location (including state): **HOBBS NM**

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     | DATE | TIME |
|-------------------------|------------|--------------|-----------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|------|------|
|                         |            |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE |      |      |
| 165218                  | MW # 2     | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                |      |     | 6-26 | 1:19 |
| 219                     | MW # 10    | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                |      |     | 6-26 | 2:10 |
| 220                     | MW # 8     | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                |      |     | 6-26 | 2:58 |
| 221                     | MW # 9     | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                |      |     | 6-26 | 3:40 |

Relinquished by: **[Signature]** Date: **6-27-08** Time: **2:15**  
Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received by: **[Signature]** Date: **6/28** Time: **11:40**

ANALYSIS REQUEST  
(Circle or Specify Method No.)

|                                                  |                           |   |
|--------------------------------------------------|---------------------------|---|
| MTBE                                             | 8021B / 602 / 8260B / 624 | ✓ |
| BTEX                                             | 8021B / 602 / 8260B / 624 | ✓ |
| TPH 418.1 / TX1005 / TX1005 Ext(C35)             |                           | ✓ |
| TPH 8015 GRO / DRO / TVHC                        |                           | ✓ |
| PAH 8270C / 625                                  |                           | ✓ |
| Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 |                           | ✓ |
| TCLP Metals Ag As Ba Cd Cr Pb Se Hg              |                           | ✓ |
| TCLP Volatiles                                   |                           | ✓ |
| TCLP Semi Volatiles                              |                           | ✓ |
| TCLP Pesticides                                  |                           | ✓ |
| RCI                                              |                           | ✓ |
| GC/MS Vol. 8260B / 624                           |                           | ✓ |
| GC/MS Semi. Vol. 8270C / 625                     |                           | ✓ |
| PCBs 8082 / 608                                  |                           | ✓ |
| Pesticides 8081A / 608                           |                           | ✓ |
| BOD, TSS, pH                                     |                           | ✓ |
| Moisture Content                                 |                           | ✓ |

Turn Around Time if different from standard

LAB USE ONLY

Intact ☒ N  
Headspace ☒ Y / N  
Temp ☒ 4°C  
Log-in-Review **[Signature]**

REMARKS:

☐ Dry Weight Basis Required  
☐ TRRP Report Required  
☐ Check if Special Reporting Limits Are Needed

Report Date: October 17, 2008  
Shell

Work Order: 8101318  
Westgate

Page Number: 1 of 2  
Hobbs, NM

## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: October 17, 2008

Work Order: 8101318



Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Shell

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 176317 | MW #2       | water  | 2008-10-09 | 10:36      | 2008-10-11    |
| 176318 | MW #10      | water  | 2008-10-09 | 11:15      | 2008-10-11    |
| 176319 | MW #8       | water  | 2008-10-09 | 13:22      | 2008-10-11    |
| 176320 | MW #9       | water  | 2008-10-09 | 13:52      | 2008-10-11    |

### Sample: 176317 - MW #2

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      | 1    | <5.00  | µg/L  | 1.00 |
| Toluene      |      | <5.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <5.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <5.00  | µg/L  | 1.00 |
| o-Xylene     |      | <5.00  | µg/L  | 1.00 |

### Sample: 176318 - MW #10

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

<sup>1</sup>Sample dilution due to soil in VOA. •



Report Date: October 17, 2008  
Shell

Work Order: 8101318  
Westgate

Page Number: 2 of 2  
Hobbs, NM

**Sample: 176319 - MW #8**

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

**Sample: 176320 - MW #9**

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |



6701 Aberdeen Avenue, Suite 9    Lubbock, Texas 79424    800•378•1296    806•794•1296    FAX 806•794•1298  
200 East Sunset Road, Suite E    El Paso, Texas 79922    888•588•3443    915•585•3443    FAX 915•585•4944  
5002 Basin Street, Suite A1    Midland, Texas 79703    432•689•6301    FAX 432•689•6313  
6015 Harris Parkway, Suite 110    Ft. Worth, Texas 76132    817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBENC: 237019

HUB: 1752439743100-86536  
NCTRCA WFWB38444Y0909

DBE: VN 20657

## NELAP Certifications

Lubbock: T104704219-08-TX  
LELAP-02003  
Kansas E-10317

El Paso: T104704221-08-TX  
LELAP-02002

Midland: T104704392-08-TX

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: October 17, 2008

Work Order: 8101318



Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Shell

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 176317 | MW #2       | water  | 2008-10-09 | 10:36      | 2008-10-11    |
| 176318 | MW #10      | water  | 2008-10-09 | 11:15      | 2008-10-11    |
| 176319 | MW #8       | water  | 2008-10-09 | 13:22      | 2008-10-11    |
| 176320 | MW #9       | water  | 2008-10-09 | 13:52      | 2008-10-11    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch

basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 8 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, appearing to read "Michael Abel".

---

Dr. Blair Leftwich, Director

#### **Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Westgate were received by TraceAnalysis, Inc. on 2008-10-11 and assigned to work order 8101318. Samples for work order 8101318 were received intact without headspace and at a temperature of 2.1 deg. C.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method  |
|-----------|---------|
| Volatiles | S 8260B |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 8101318 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: October 17, 2008  
Shell

Work Order: 8101318  
Westgate

Page Number: 4 of 8  
Hobbs, NM

## Analytical Report

Sample: 176317 - MW #2

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 53349  
Prep Batch: 45686

Analytical Method: S 8260B  
Date Analyzed: 2008-10-15  
Sample Preparation: 2008-10-15

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      | 1    | <5.00        | µg/L  | 5        | 1.00 |
| Toluene      |      | <5.00        | µg/L  | 5        | 1.00 |
| Ethylbenzene |      | <5.00        | µg/L  | 5        | 1.00 |
| m,p-Xylene   |      | <5.00        | µg/L  | 5        | 1.00 |
| o-Xylene     |      | <5.00        | µg/L  | 5        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 239    | µg/L  | 5        | 250             | 96                  | 83.6 - 120         |
| Toluene-d8                   |      | 252    | µg/L  | 5        | 250             | 101                 | 85.1 - 120         |
| 4-Bromofluorobenzene (4-BFB) |      | 218    | µg/L  | 5        | 250             | 87                  | 73.7 - 111         |

Sample: 176318 - MW #10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 53349  
Prep Batch: 45686

Analytical Method: S 8260B  
Date Analyzed: 2008-10-15  
Sample Preparation: 2008-10-15

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 48.6   | µg/L  | 1        | 50.0            | 97                  | 83.6 - 120         |
| Toluene-d8                   |      | 50.3   | µg/L  | 1        | 50.0            | 101                 | 85.1 - 120         |
| 4-Bromofluorobenzene (4-BFB) |      | 44.9   | µg/L  | 1        | 50.0            | 90                  | 73.7 - 111         |

<sup>1</sup>Sample dilution due to soil in VOA. •

Report Date: October 17, 2008  
Shell

Work Order: 8101318  
Westgate

Page Number: 5 of 8  
Hobbs, NM

**Sample: 176319 - MW #8**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 53349  
Prep Batch: 45686

Analytical Method: S 8260B  
Date Analyzed: 2008-10-15  
Sample Preparation: 2008-10-15

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 48.7   | µg/L  | 1        | 50.0            | 97                  | 83.6 - 120         |
| Toluene-d8                   |      | 49.8   | µg/L  | 1        | 50.0            | 100                 | 85.1 - 120         |
| 4-Bromofluorobenzene (4-BFB) |      | 43.6   | µg/L  | 1        | 50.0            | 87                  | 73.7 - 111         |

**Sample: 176320 - MW #9**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 53349  
Prep Batch: 45686

Analytical Method: S 8260B  
Date Analyzed: 2008-10-15  
Sample Preparation: 2008-10-15

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 49.0   | µg/L  | 1        | 50.0            | 98                  | 83.6 - 120         |
| Toluene-d8                   |      | 49.7   | µg/L  | 1        | 50.0            | 99                  | 85.1 - 120         |
| 4-Bromofluorobenzene (4-BFB) |      | 44.1   | µg/L  | 1        | 50.0            | 88                  | 73.7 - 111         |

**Method Blank (1)**      QC Batch: 53349

QC Batch: 53349  
Prep Batch: 45686

Date Analyzed: 2008-10-15  
QC Preparation: 2008-10-15

Analyzed By: KB  
Prepared By: KB

Report Date: October 17, 2008  
Shell

Work Order: 8101318  
Westgate

Page Number: 6 of 8  
Hobbs, NM

| Parameter    | Flag | MDL<br>Result | Units | RL |
|--------------|------|---------------|-------|----|
| Benzene      |      | <0.319        | µg/L  | 1  |
| Toluene      |      | <0.268        | µg/L  | 1  |
| Ethylbenzene |      | <0.245        | µg/L  | 1  |
| m,p-Xylene   |      | <0.517        | µg/L  | 1  |
| o-Xylene     |      | <0.247        | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 46.0   | µg/L  | 1        | 50.0            | 92                  | 83.6 - 120         |
| Toluene-d8                   |      | 50.3   | µg/L  | 1        | 50.0            | 101                 | 85 - 120           |
| 4-Bromofluorobenzene (4-BFB) |      | 45.4   | µg/L  | 1        | 50.0            | 91                  | 73.7 - 111         |

#### Laboratory Control Spike (LCS-1)

QC Batch: 53349  
Prep Batch: 45686

Date Analyzed: 2008-10-15  
QC Preparation: 2008-10-15

Analyzed By: KB  
Prepared By: KB

| Param        |              | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | <sup>2</sup> | 43.1          | µg/L  | 1    | 50.0            | <0.319           | 86   | 89.5 - 113.9  |
| Toluene      | <sup>3</sup> | 43.7          | µg/L  | 1    | 50.0            | <0.268           | 87   | 91.1 - 113.8  |
| Ethylbenzene |              | 45.8          | µg/L  | 1    | 50.0            | <0.245           | 92   | 91.8 - 117.4  |
| m,p-Xylene   |              | 93.0          | µg/L  | 1    | 100             | <0.517           | 93   | 91.4 - 120    |
| o-Xylene     |              | 45.6          | µg/L  | 1    | 50.0            | <0.247           | 91   | 89.3 - 122.4  |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        |              | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | <sup>4</sup> | 43.8           | µg/L  | 1    | 50.0            | <0.319           | 88   | 89.5 - 113.9  | 2   | 20           |
| Toluene      | <sup>5</sup> | 44.2           | µg/L  | 1    | 50.0            | <0.268           | 88   | 91.1 - 113.8  | 1   | 20           |
| Ethylbenzene |              | 46.2           | µg/L  | 1    | 50.0            | <0.245           | 92   | 91.8 - 117.4  | 1   | 20           |
| m,p-Xylene   |              | 94.2           | µg/L  | 1    | 100             | <0.517           | 94   | 91.4 - 120    | 1   | 20           |
| o-Xylene     |              | 46.4           | µg/L  | 1    | 50.0            | <0.247           | 93   | 89.3 - 122.4  | 2   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

<sup>2</sup>Spike recovery outside control limits. Majority of analytes within limits showing the analysis to be in control. Analyte not detected above reporting limit in samples. •

<sup>3</sup>Spike recovery outside control limits. Majority of analytes within limits showing the analysis to be in control. Analyte not detected above reporting limit in samples.

<sup>4</sup>Spike recovery outside control limits. Majority of analytes within limits showing the analysis to be in control. Analyte not detected above reporting limit in samples. RPD within RPD limits. •

<sup>5</sup>Spike recovery outside control limits. Majority of analytes within limits showing the analysis to be in control. Analyte not detected above reporting limit in samples. RPD within RPD limits. •

Report Date: October 17, 2008  
Shell

Work Order: 8101318  
Westgate

Page Number: 7 of 8  
Hobbs, NM

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Dibromofluoromethane         | 44.6          | 43.9           | µg/L  | 1    | 50.0            | 89          | 88           | 85.4 - 110.5  |
| Toluene-d8                   | 48.3          | 48.3           | µg/L  | 1    | 50.0            | 97          | 97           | 87 - 108.6    |
| 4-Bromofluorobenzene (4-BFB) | 47.0          | 47.2           | µg/L  | 1    | 50.0            | 94          | 94           | 83.3 - 113    |

**Matrix Spike (MS-1)** Spiked Sample: 176320

QC Batch: 53349  
Prep Batch: 45686

Date Analyzed: 2008-10-15  
QC Preparation: 2008-10-15

Analyzed By: KB  
Prepared By: KB

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 45.9         | µg/L  | 1    | 50.0            | <0.319           | 92   | 63.3 - 136.4  |
| Toluene      | 46.1         | µg/L  | 1    | 50.0            | <0.268           | 92   | 10 - 205.6    |
| Ethylbenzene | 46.5         | µg/L  | 1    | 50.0            | <0.245           | 93   | 81.8 - 123.6  |
| m,p-Xylene   | 93.2         | µg/L  | 1    | 100             | <0.517           | 93   | 36 - 162.4    |
| o-Xylene     | 46.8         | µg/L  | 1    | 50.0            | <0.247           | 94   | 40.7 - 160.6  |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 44.5          | µg/L  | 1    | 50.0            | <0.319           | 89   | 63.3 - 136.4  | 3   | 20           |
| Toluene      | 44.8          | µg/L  | 1    | 50.0            | <0.268           | 90   | 10 - 205.6    | 3   | 20           |
| Ethylbenzene | 45.4          | µg/L  | 1    | 50.0            | <0.245           | 91   | 81.8 - 123.6  | 2   | 20           |
| m,p-Xylene   | 91.5          | µg/L  | 1    | 100             | <0.517           | 92   | 36 - 162.4    | 2   | 20           |
| o-Xylene     | 45.6          | µg/L  | 1    | 50.0            | <0.247           | 91   | 40.7 - 160.6  | 3   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 46.2         | 45.1          | µg/L  | 1    | 50              | 92         | 90          | 89 - 112.8    |
| Toluene-d8                   | 47.8         | 48.3          | µg/L  | 1    | 50              | 96         | 97          | 86.2 - 109.5  |
| 4-Bromofluorobenzene (4-BFB) | 46.5         | 46.8          | µg/L  | 1    | 50              | 93         | 94          | 81.3 - 115.4  |

**Standard (CCV-1)**

QC Batch: 53349

Date Analyzed: 2008-10-15

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | µg/L  | 50.0                  | 43.1                   | 86                          | 70 - 130                      | 2008-10-15       |
| Toluene      |      | µg/L  | 50.0                  | 43.7                   | 87                          | 80 - 120                      | 2008-10-15       |
| Ethylbenzene |      | µg/L  | 50.0                  | 45.1                   | 90                          | 80 - 120                      | 2008-10-15       |

*continued ...*



Report Date: October 17, 2008  
Shell

Work Order: 8101318  
Westgate

Page Number: 8 of 8  
Hobbs, NM

*standard continued ...*

| Param      | Flag | Units           | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------|------|-----------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| m,p-Xylene |      | $\mu\text{g/L}$ | 100                   | 91.9                   | 92                          | 70 - 130                      | 2008-10-15       |
| o-Xylene   |      | $\mu\text{g/L}$ | 50.0                  | 45.3                   | 91                          | 70 - 130                      | 2008-10-15       |

8101318

LAB Order ID #

Page of

## TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

8808 Camp Bowie Blvd. West Suite 180

Ft. Worth, Texas 76116

Tel (817) 201-5260

Fax (817) 560-4336

Company Name:

BEC International

Address:

1324 W. Marland Hbbs, 88240

Contact Person:

Cliff Brunson

Invoice to:

(If different from above)

Project #:

Project Name:

Project Location (including state):

Hobbs, NM

Sampler Signature:

Hobbs, NM

Project Name:

Westgate

Sampler Signature:

Hobbs, NM

Project Name:

Westgate

Sampler Signature:

Hobbs, NM

Project Name:

Westgate

Sampler Signature:

Hobbs, NM

Project Name:

Westgate

Sampler Signature:

Hobbs, NM

Project Name:

Westgate

Sampler Signature:

Hobbs, NM

Project Name:

Westgate

Sampler Signature:

Hobbs, NM

Project Name:

Westgate

Sampler Signature:

Hobbs, NM

Project Name:

Westgate

Sampler Signature:

Hobbs, NM

Project Name:

Westgate

Sampler Signature:

Hobbs, NM

Project Name:

Westgate

## ANALYSIS REQUEST

(Circle or Specify Method No.)

|                                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| MTBE 8021B / 602 / 8260B / 624 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | </ |
|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|

|                  |          |       |       |              |          |       |       |          |
|------------------|----------|-------|-------|--------------|----------|-------|-------|----------|
| Relinquished by: | Company: | Date: | Time: | Received by: | Company: | Date: | Time: | Temp °C: |
| Relinquished by: | Company: | Date: | Time: | Received by: | Company: | Date: | Time: | Temp °C: |
| Relinquished by: | Company: | Date: | Time: | Received by: | Company: | Date: | Time: | Temp °C: |

|               |               |
|---------------|---------------|
| LAB USE ONLY  | LAB USE ONLY  |
| Initials      | Initials      |
| Headspace     | Headspace     |
| Log-In Review | Log-In Review |

- ☐ Dry Weight Basis Required  
☐ TRRP Report Required  
☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # Fedex 7012350851

## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: January 14, 2009

Work Order: 8122321



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 183420 | MW-10       | water  | 2008-12-19 | 10:09      | 2008-12-23    |
| 183421 | MW-9        | water  | 2008-12-19 | 11:05      | 2008-12-23    |
| 183422 | MW-8        | water  | 2008-12-19 | 11:50      | 2008-12-23    |
| 183423 | MW-4        | water  | 2008-12-19 | 12:45      | 2008-12-23    |
| 183424 | MW-6        | water  | 2008-12-19 | 13:28      | 2008-12-23    |
| 183425 | MW-11       | water  | 2008-12-19 | 14:08      | 2008-12-23    |
| 183426 | MW-5        | water  | 2008-12-19 | 15:20      | 2008-12-23    |

### Sample: 183420 - MW-10

| Param               | Flag | Result    | Units | RL       |
|---------------------|------|-----------|-------|----------|
| Naphthalene         |      | <0.000184 | mg/L  | 0.000200 |
| 2-Methylnaphthalene |      | <0.000184 | mg/L  | 0.000200 |
| 1-Methylnaphthalene |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthylene      |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthene        |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzofuran        |      | <0.000184 | mg/L  | 0.000200 |
| Fluorene            |      | <0.000184 | mg/L  | 0.000200 |
| Anthracene          |      | <0.000184 | mg/L  | 0.000200 |
| Phenanthrene        |      | <0.000184 | mg/L  | 0.000200 |
| Fluoranthene        |      | <0.000184 | mg/L  | 0.000200 |
| Pyrene              |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)anthracene  |      | <0.000184 | mg/L  | 0.000200 |
| Chrysene            |      | <0.000184 | mg/L  | 0.000200 |

*continued ...*

*sample 183420 continued ...*

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Benzo(b)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzene                |      | <1.00     | µg/L  | 1.00     |
| Toluene                |      | <1.00     | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00     | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00     | µg/L  | 1.00     |
| o-Xylene               |      | <1.00     | µg/L  | 1.00     |

**Sample: 183421 - MW-9**

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Naphthalene            |      | <0.000186 | mg/L  | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000186 | mg/L  | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000186 | mg/L  | 0.000200 |
| Acenaphthylene         |      | <0.000186 | mg/L  | 0.000200 |
| Acenaphthene           |      | <0.000186 | mg/L  | 0.000200 |
| Dibenzofuran           |      | <0.000186 | mg/L  | 0.000200 |
| Fluorene               |      | <0.000186 | mg/L  | 0.000200 |
| Anthracene             |      | <0.000186 | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000186 | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000186 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000186 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000186 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000186 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000186 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000186 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000186 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000186 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000186 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000186 | mg/L  | 0.000200 |
| Benzene                |      | <1.00     | µg/L  | 1.00     |
| Toluene                |      | <1.00     | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00     | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00     | µg/L  | 1.00     |
| o-Xylene               |      | <1.00     | µg/L  | 1.00     |

**Sample: 183422 - MW-8**

| Param       | Flag | Result          | Units | RL       |
|-------------|------|-----------------|-------|----------|
| Naphthalene |      | <b>0.000653</b> | mg/L  | 0.000200 |

*continued ...*

sample 183422 continued ...

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| 2-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthylene         |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthene           |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzofuran           |      | <0.000184 | mg/L  | 0.000200 |
| Fluorene               |      | <0.000184 | mg/L  | 0.000200 |
| Anthracene             |      | <0.000184 | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000184 | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000184 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzene                |      | <1.00     | µg/L  | 1.00     |
| Toluene                |      | <1.00     | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00     | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00     | µg/L  | 1.00     |
| o-Xylene               |      | <1.00     | µg/L  | 1.00     |

## Sample: 183423 - MW-4

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Naphthalene            |      | <0.000185 | mg/L  | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000185 | mg/L  | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000185 | mg/L  | 0.000200 |
| Acenaphthylene         |      | <0.000185 | mg/L  | 0.000200 |
| Acenaphthene           |      | <0.000185 | mg/L  | 0.000200 |
| Dibenzofuran           |      | <0.000185 | mg/L  | 0.000200 |
| Fluorene               |      | <0.000185 | mg/L  | 0.000200 |
| Anthracene             |      | <0.000185 | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000185 | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000185 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000185 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000185 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000185 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000185 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000185 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000185 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000185 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000185 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000185 | mg/L  | 0.000200 |

continued ...

*sample 183423 continued ...*

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

**Sample: 183424 - MW-6**

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Naphthalene            |      | <0.000200 | mg/L  | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000200 | mg/L  | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000200 | mg/L  | 0.000200 |
| Acenaphthylene         |      | <0.000200 | mg/L  | 0.000200 |
| Acenaphthene           |      | <0.000200 | mg/L  | 0.000200 |
| Dibenzofuran           |      | <0.000200 | mg/L  | 0.000200 |
| Fluorene               |      | <0.000200 | mg/L  | 0.000200 |
| Anthracene             |      | <0.000200 | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000200 | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000200 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000200 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000200 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000200 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000200 | mg/L  | 0.000200 |
| Benzene                |      | <1.00     | µg/L  | 1.00     |
| Toluene                |      | <1.00     | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00     | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00     | µg/L  | 1.00     |
| o-Xylene               |      | <1.00     | µg/L  | 1.00     |

**Sample: 183425 - MW-11**

| Param               | Flag | Result    | Units | RL       |
|---------------------|------|-----------|-------|----------|
| Naphthalene         |      | <0.000184 | mg/L  | 0.000200 |
| 2-Methylnaphthalene |      | <0.000184 | mg/L  | 0.000200 |
| 1-Methylnaphthalene |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthylene      |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthene        |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzofuran        |      | <0.000184 | mg/L  | 0.000200 |
| Fluorene            |      | <0.000184 | mg/L  | 0.000200 |

*continued ...*

*sample 183425 continued ...*

| Param                  | Flag | Result          | Units | RL       |
|------------------------|------|-----------------|-------|----------|
| Anthracene             |      | <0.000184       | mg/L  | 0.000200 |
| Phenanthrene           |      | <b>0.000333</b> | mg/L  | 0.000200 |
| Fluoranthene           |      | <b>0.000192</b> | mg/L  | 0.000200 |
| Pyrene                 |      | <b>0.000326</b> | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184       | mg/L  | 0.000200 |
| Chrysene               |      | <0.000184       | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184       | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184       | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184       | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <b>0.000589</b> | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184       | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184       | mg/L  | 0.000200 |
| Benzene                |      | <1.00           | µg/L  | 1.00     |
| Toluene                |      | <1.00           | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00           | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00           | µg/L  | 1.00     |
| o-Xylene               |      | <1.00           | µg/L  | 1.00     |

**Sample: 183426 - MW-5**

| Param                  | Flag | Result      | Units | RL       |
|------------------------|------|-------------|-------|----------|
| Naphthalene            |      | <0.000184   | mg/L  | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000184   | mg/L  | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184   | mg/L  | 0.000200 |
| Acenaphthylene         |      | <0.000184   | mg/L  | 0.000200 |
| Acenaphthene           |      | <0.000184   | mg/L  | 0.000200 |
| Dibenzofuran           |      | <0.000184   | mg/L  | 0.000200 |
| Fluorene               |      | <0.000184   | mg/L  | 0.000200 |
| Anthracene             |      | <0.000184   | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000184   | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000184   | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000184   | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184   | mg/L  | 0.000200 |
| Chrysene               |      | <0.000184   | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184   | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184   | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184   | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184   | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184   | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184   | mg/L  | 0.000200 |
| Benzene                |      | <1.00       | µg/L  | 1.00     |
| Toluene                |      | <b>4.27</b> | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00       | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00       | µg/L  | 1.00     |
| o-Xylene               |      | <1.00       | µg/L  | 1.00     |



6701 Aberdeen Avenue, Suite 9    Lubbock, Texas 79424    800•378•1296    806•794•1296    FAX 806•794•1296  
200 East Sunset Road, Suite E    El Paso, Texas 79922    888•588•3443    915•585•3443    FAX 915•585•4944  
5002 Basin Street, Suite A1    Midland, Texas 79703    432•689•6301    FAX 432•689•6313  
6015 Harris Parkway, Suite 110    Ft. Worth, Texas 76132    817•201•5260  
E-Mail: iab@traceanalysis.com

## Certifications

WBENC: 237019

HUB: 1752439743100-86536  
NCTRCA WFWB38444Y0909

DBE: VN 20657

## NELAP Certifications

Lubbock: T104704219-08-TX  
LELAP-02003  
Kansas E-10317

El Paso: T104704221-08-TX  
LELAP-02002

Midland: T104704392-08-TX

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: January 14, 2009

Work Order: 8122321



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

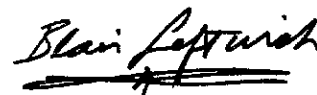
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 183420 | MW-10       | water  | 2008-12-19 | 10:09      | 2008-12-23    |
| 183421 | MW-9        | water  | 2008-12-19 | 11:05      | 2008-12-23    |
| 183422 | MW-8        | water  | 2008-12-19 | 11:50      | 2008-12-23    |
| 183423 | MW-4        | water  | 2008-12-19 | 12:45      | 2008-12-23    |
| 183424 | MW-6        | water  | 2008-12-19 | 13:28      | 2008-12-23    |
| 183425 | MW-11       | water  | 2008-12-19 | 14:08      | 2008-12-23    |
| 183426 | MW-5        | water  | 2008-12-19 | 15:20      | 2008-12-23    |



These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style and is positioned above a horizontal line.

---

Dr. Blair Leftwich, Director

#### **Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Westgate were received by TraceAnalysis, Inc. on 2008-12-23 and assigned to work order 8122321. Samples for work order 8122321 were received intact without headspace and at a temperature of 4.2 deg. C.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method  |
|-----------|---------|
| PAH       | S 8270C |
| Volatiles | S 8260B |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 8122321 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: January 14, 2009  
Westgate

Work Order: 8122321  
Westgate

Page Number: 4 of 19  
Hobbs, NM

## Analytical Report

Sample: 183420 - MW-10

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 55973  
Prep Batch: 47842

Analytical Method: S 8270C  
Date Analyzed: 2009-01-09  
Sample Preparation: 2008-12-18

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Naphthalene            |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthylene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzofuran           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluorene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Anthracene             |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Phenanthrene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluoranthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Pyrene                 |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Chrysene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0463 | mg/L  | 0.922    | 0.0800          | 58                  | 15.8 - 97.2        |
| 2-Fluorobiphenyl |      | 0.0404 | mg/L  | 0.922    | 0.0800          | 50                  | 16 - 91.6          |
| Terphenyl-d14    |      | 0.0565 | mg/L  | 0.922    | 0.0800          | 71                  | 55 - 117           |

Sample: 183420 - MW-10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 55502  
Prep Batch: 47435

Analytical Method: S 8260B  
Date Analyzed: 2008-12-23  
Sample Preparation: 2008-12-23

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

*continued ...*

Report Date: January 14, 2009  
Westgate

Work Order: 8122321  
Westgate

Page Number: 5 of 19  
Hobbs, NM

sample 183420 continued ...

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 53.5   | µg/L  | 1        | 50.0            | 107                 | 83.6 - 120         |
| Toluene-d8                   |      | 50.8   | µg/L  | 1        | 50.0            | 102                 | 85.1 - 120         |
| 4-Bromofluorobenzene (4-BFB) |      | 44.4   | µg/L  | 1        | 50.0            | 89                  | 73.7 - 111         |

Sample: 183421 - MW-9

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 55973  
Prep Batch: 47842

Analytical Method: S 8270C  
Date Analyzed: 2009-01-09  
Sample Preparation: 2008-12-18

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Naphthalene            |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Acenaphthylene         |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Acenaphthene           |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Dibenzofuran           |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Fluorene               |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Anthracene             |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Phenanthrene           |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Fluoranthene           |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Pyrene                 |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Benzo(a)anthracene     |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Chrysene               |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Benzo(a)pyrene         |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000186    | mg/L  | 0.93     | 0.000200 |

continued ...

Report Date: January 14, 2009  
Westgate

Work Order: 8122321  
Westgate

Page Number: 6 of 19  
Hobbs, NM

sample 183421 continued ...

| Parameter            | Flag | RL<br>Result | Units | Dilution | RL       |
|----------------------|------|--------------|-------|----------|----------|
| Benzo(g,h,i)perylene |      | <0.000186    | mg/L  | 0.93     | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0401 | mg/L  | 0.93     | 0.0800          | 50                  | 15.8 - 97.2        |
| 2-Fluorobiphenyl |      | 0.0334 | mg/L  | 0.93     | 0.0800          | 42                  | 16 - 91.6          |
| Terphenyl-d14    |      | 0.0450 | mg/L  | 0.93     | 0.0800          | 56                  | 55 - 117           |

**Sample: 183421 - MW-9**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 55502  
Prep Batch: 47435

Analytical Method: S 8260B  
Date Analyzed: 2008-12-23  
Sample Preparation: 2008-12-23

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 52.9   | µg/L  | 1        | 50.0            | 106                 | 83.6 - 120         |
| Toluene-d8                   |      | 50.3   | µg/L  | 1        | 50.0            | 101                 | 85.1 - 120         |
| 4-Bromofluorobenzene (4-BFB) |      | 45.9   | µg/L  | 1        | 50.0            | 92                  | 73.7 - 111         |

**Sample: 183422 - MW-8**

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 55973  
Prep Batch: 47842

Analytical Method: S 8270C  
Date Analyzed: 2009-01-09  
Sample Preparation: 2008-12-18

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter           | Flag | RL<br>Result | Units | Dilution | RL       |
|---------------------|------|--------------|-------|----------|----------|
| Naphthalene         |      | 0.000653     | mg/L  | 0.922    | 0.000200 |
| 2-Methylnaphthalene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 1-Methylnaphthalene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

continued ...

sample 183422 continued ...

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Acenaphthylene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzofuran           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluorene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Anthracene             |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Phenanthrene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluoranthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Pyrene                 |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Chrysene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0529 | mg/L  | 0.922    | 0.0800          | 66                  | 15.8 - 97.2        |
| 2-Fluorobiphenyl |      | 0.0459 | mg/L  | 0.922    | 0.0800          | 57                  | 16 - 91.6          |
| Terphenyl-d14    |      | 0.0537 | mg/L  | 0.922    | 0.0800          | 67                  | 55 - 117           |

Sample: 183422 - MW-8

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 55502  
Prep Batch: 47435

Analytical Method: S 8260B  
Date Analyzed: 2008-12-23  
Sample Preparation: 2008-12-23

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate            | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|----------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane |      | 52.0   | µg/L  | 1        | 50.0            | 104                 | 83.6 - 120         |
| Toluene-d8           |      | 50.4   | µg/L  | 1        | 50.0            | 101                 | 85.1 - 120         |

continued ...

Report Date: January 14, 2009  
Westgate

Work Order: 8122321  
Westgate

Page Number: 8 of 19  
Hobbs, NM

sample continued ...

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 4-Bromofluorobenzene (4-BFB) |      | 46.2   | µg/L  | 1        | 50.0         | 92               | 73.7 - 111      |

**Sample: 183423 - MW-4**

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 55973  
Prep Batch: 47842

Analytical Method: S 8270C  
Date Analyzed: 2009-01-09  
Sample Preparation: 2008-12-18

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Naphthalene            |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| Acenaphthylene         |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| Acenaphthene           |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| Dibenzofuran           |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| Fluorene               |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| Anthracene             |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| Phenanthrene           |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| Fluoranthene           |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| Pyrene                 |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| Benzo(a)anthracene     |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| Chrysene               |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| Benzo(a)pyrene         |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000185    | mg/L  | 0.926    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000185    | mg/L  | 0.926    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 0.0384 | mg/L  | 0.926    | 0.0800       | 48               | 15.8 - 97.2     |
| 2-Fluorobiphenyl |      | 0.0330 | mg/L  | 0.926    | 0.0800       | 41               | 16 - 91.6       |
| Terphenyl-d14    |      | 0.0486 | mg/L  | 0.926    | 0.0800       | 61               | 55 - 117        |

Report Date: January 14, 2009  
Westgate

Work Order: 8122321  
Westgate

Page Number: 9 of 19  
Hobbs, NM

**Sample: 183423 - MW-4**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 55502  
Prep Batch: 47435

Analytical Method: S 8260B  
Date Analyzed: 2008-12-23  
Sample Preparation: 2008-12-23

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 52.3   | µg/L  | 1        | 50.0            | 105                 | 83.6 - 120         |
| Toluene-d8                   |      | 49.7   | µg/L  | 1        | 50.0            | 99                  | 85.1 - 120         |
| 4-Bromofluorobenzene (4-BFB) |      | 45.5   | µg/L  | 1        | 50.0            | 91                  | 73.7 - 111         |

**Sample: 183424 - MW-6**

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 55973  
Prep Batch: 47842

Analytical Method: S 8270C  
Date Analyzed: 2009-01-09  
Sample Preparation: 2008-12-18

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter            | Flag | RL<br>Result | Units | Dilution | RL       |
|----------------------|------|--------------|-------|----------|----------|
| Naphthalene          |      | <0.000200    | mg/L  | 1        | 0.000200 |
| 2-Methylnaphthalene  |      | <0.000200    | mg/L  | 1        | 0.000200 |
| 1-Methylnaphthalene  |      | <0.000200    | mg/L  | 1        | 0.000200 |
| Acenaphthylene       |      | <0.000200    | mg/L  | 1        | 0.000200 |
| Acenaphthene         |      | <0.000200    | mg/L  | 1        | 0.000200 |
| Dibenzofuran         |      | <0.000200    | mg/L  | 1        | 0.000200 |
| Fluorene             |      | <0.000200    | mg/L  | 1        | 0.000200 |
| Anthracene           |      | <0.000200    | mg/L  | 1        | 0.000200 |
| Phenanthrene         |      | <0.000200    | mg/L  | 1        | 0.000200 |
| Fluoranthene         |      | <0.000200    | mg/L  | 1        | 0.000200 |
| Pyrene               |      | <0.000200    | mg/L  | 1        | 0.000200 |
| Benzo(a)anthracene   |      | <0.000200    | mg/L  | 1        | 0.000200 |
| Chrysene             |      | <0.000200    | mg/L  | 1        | 0.000200 |
| Benzo(b)fluoranthene |      | <0.000200    | mg/L  | 1        | 0.000200 |
| Benzo(k)fluoranthene |      | <0.000200    | mg/L  | 1        | 0.000200 |
| Benzo(a)pyrene       |      | <0.000200    | mg/L  | 1        | 0.000200 |

*continued ...*



Report Date: January 14, 2009  
Westgate

Work Order: 8122321  
Westgate

Page Number: 10 of 19  
Hobbs, NM

sample 183424 continued ...

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Indeno(1,2,3-cd)pyrene |      | <0.000200    | mg/L  | 1        | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000200    | mg/L  | 1        | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000200    | mg/L  | 1        | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0347 | mg/L  | 1        | 0.0800          | 43                  | 15.8 - 97.2        |
| 2-Fluorobiphenyl |      | 0.0328 | mg/L  | 1        | 0.0800          | 41                  | 16 - 91.6          |
| Terphenyl-d14    |      | 0.0454 | mg/L  | 1        | 0.0800          | 57                  | 55 - 117           |

**Sample: 183424 - MW-6**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 55502  
Prep Batch: 47435

Analytical Method: S 8260B  
Date Analyzed: 2008-12-23  
Sample Preparation: 2008-12-23

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 52.4   | µg/L  | 1        | 50.0            | 105                 | 83.6 - 120         |
| Toluene-d8                   |      | 49.1   | µg/L  | 1        | 50.0            | 98                  | 85.1 - 120         |
| 4-Bromofluorobenzene (4-BFB) |      | 45.8   | µg/L  | 1        | 50.0            | 92                  | 73.7 - 111         |

**Sample: 183425 - MW-11**

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 55973  
Prep Batch: 47842

Analytical Method: S 8270C  
Date Analyzed: 2009-01-09  
Sample Preparation: 2008-12-18

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter   | Flag | RL<br>Result | Units | Dilution | RL       |
|-------------|------|--------------|-------|----------|----------|
| Naphthalene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

continued ...

sample 183425 continued ...

| Parameter              | Flag | RL<br>Result    | Units | Dilution | RL       |
|------------------------|------|-----------------|-------|----------|----------|
| 2-Methylnaphthalene    |      | <0.000184       | mg/L  | 0.922    | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184       | mg/L  | 0.922    | 0.000200 |
| Acenaphthylene         |      | <0.000184       | mg/L  | 0.922    | 0.000200 |
| Acenaphthene           |      | <0.000184       | mg/L  | 0.922    | 0.000200 |
| Dibenzofuran           |      | <0.000184       | mg/L  | 0.922    | 0.000200 |
| Fluorene               |      | <0.000184       | mg/L  | 0.922    | 0.000200 |
| Anthracene             |      | <0.000184       | mg/L  | 0.922    | 0.000200 |
| Phenanthrene           |      | <b>0.000333</b> | mg/L  | 0.922    | 0.000200 |
| Fluoranthene           |      | <b>0.000192</b> | mg/L  | 0.922    | 0.000200 |
| Pyrene                 |      | <b>0.000326</b> | mg/L  | 0.922    | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184       | mg/L  | 0.922    | 0.000200 |
| Chrysene               |      | <0.000184       | mg/L  | 0.922    | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184       | mg/L  | 0.922    | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184       | mg/L  | 0.922    | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184       | mg/L  | 0.922    | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <b>0.000589</b> | mg/L  | 0.922    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184       | mg/L  | 0.922    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184       | mg/L  | 0.922    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0371 | mg/L  | 0.922    | 0.0800          | 46                  | 15.8 - 97.2        |
| 2-Fluorobiphenyl |      | 0.0320 | mg/L  | 0.922    | 0.0800          | 40                  | 16 - 91.6          |
| Terphenyl-d14    |      | 0.0500 | mg/L  | 0.922    | 0.0800          | 62                  | 55 - 117           |

**Sample: 183425 - MW-11**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 55502  
Prep Batch: 47435

Analytical Method: S 8260B  
Date Analyzed: 2008-12-23  
Sample Preparation: 2008-12-23

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

Report Date: January 14, 2009  
Westgate

Work Order: 8122321  
Westgate

Page Number: 12 of 19  
Hobbs, NM

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      | 52.1   | µg/L  | 1        | 50.0         | 104              | 83.6 - 120      |
| Toluene-d8                   |      | 51.6   | µg/L  | 1        | 50.0         | 103              | 85.1 - 120      |
| 4-Bromofluorobenzene (4-BFB) |      | 47.1   | µg/L  | 1        | 50.0         | 94               | 73.7 - 111      |

**Sample: 183426 - MW-5**

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 55973  
Prep Batch: 47842

Analytical Method: S 8270C  
Date Analyzed: 2009-01-09  
Sample Preparation: 2008-12-18

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Naphthalene            |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthylene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzofuran           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluorene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Anthracene             |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Phenanthrene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluoranthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Pyrene                 |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Chrysene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 0.0337 | mg/L  | 0.922    | 0.0800       | 42               | 15.8 - 97.2     |
| 2-Fluorobiphenyl |      | 0.0295 | mg/L  | 0.922    | 0.0800       | 37               | 16 - 91.6       |
| Terphenyl-d14    |      | 0.0442 | mg/L  | 0.922    | 0.0800       | 55               | 55 - 117        |

Report Date: January 14, 2009  
Westgate

Work Order: 8122321  
Westgate

Page Number: 13 of 19  
Hobbs, NM

**Sample: 183426 - MW-5**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 55502  
Prep Batch: 47435

Analytical Method: S 8260B  
Date Analyzed: 2008-12-23  
Sample Preparation: 2008-12-23

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | 4.27         | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 54.3   | µg/L  | 1        | 50.0            | 109                 | 83.6 - 120         |
| Toluene-d8                   |      | 50.5   | µg/L  | 1        | 50.0            | 101                 | 85.1 - 120         |
| 4-Bromofluorobenzene (4-BFB) |      | 45.4   | µg/L  | 1        | 50.0            | 91                  | 73.7 - 111         |

**Method Blank (1)**      QC Batch: 55502

QC Batch: 55502  
Prep Batch: 47435

Date Analyzed: 2008-12-23  
QC Preparation: 2008-12-23

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | MDL<br>Result | Units | RL |
|--------------|------|---------------|-------|----|
| Benzene      |      | <0.319        | µg/L  | 1  |
| Toluene      |      | <0.268        | µg/L  | 1  |
| Ethylbenzene |      | <0.245        | µg/L  | 1  |
| m,p-Xylene   |      | <0.517        | µg/L  | 1  |
| o-Xylene     |      | <0.247        | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 50.2   | µg/L  | 1        | 50.0            | 100                 | 83.6 - 120         |
| Toluene-d8                   |      | 51.3   | µg/L  | 1        | 50.0            | 103                 | 85 - 120           |
| 4-Bromofluorobenzene (4-BFB) |      | 47.5   | µg/L  | 1        | 50.0            | 95                  | 73.7 - 111         |

**Method Blank (1)**      QC Batch: 55973

QC Batch: 55973  
Prep Batch: 47842

Date Analyzed: 2009-01-09  
QC Preparation: 2008-12-18

Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | MDL<br>Result | Units | RL     |
|------------------------|------|---------------|-------|--------|
| Naphthalene            |      | <0.0000673    | mg/L  | 0.0002 |
| 2-Methylnaphthalene    |      | <0.0000469    | mg/L  | 0.0002 |
| 1-Methylnaphthalene    |      | <0.0000690    | mg/L  | 0.0002 |
| Acenaphthylene         |      | <0.0000707    | mg/L  | 0.0002 |
| Acenaphthene           |      | <0.000131     | mg/L  | 0.0002 |
| Dibenzofuran           |      | <0.0000433    | mg/L  | 0.0002 |
| Fluorene               |      | <0.0000525    | mg/L  | 0.0002 |
| Anthracene             |      | <0.0000808    | mg/L  | 0.0002 |
| Phenanthrene           |      | <0.0000509    | mg/L  | 0.0002 |
| Fluoranthene           |      | <0.0000880    | mg/L  | 0.0002 |
| Pyrene                 |      | <0.0000458    | mg/L  | 0.0002 |
| Benzo(a)anthracene     |      | <0.0000302    | mg/L  | 0.0002 |
| Chrysene               |      | <0.0000913    | mg/L  | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.0000631    | mg/L  | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.0000765    | mg/L  | 0.0002 |
| Benzo(a)pyrene         |      | <0.0000506    | mg/L  | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.0000801    | mg/L  | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.0000558    | mg/L  | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.0000628    | mg/L  | 0.0002 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0581 | mg/L  | 0.922    | 0.0800          | 73                  | 15.8 - 97.2        |
| 2-Fluorobiphenyl |      | 0.0552 | mg/L  | 0.922    | 0.0800          | 69                  | 16 - 91.6          |
| Terphenyl-d14    |      | 0.0693 | mg/L  | 0.922    | 0.0800          | 87                  | 55 - 117           |

#### Laboratory Control Spike (LCS-1)

QC Batch: 55502  
Prep Batch: 47435

Date Analyzed: 2008-12-23  
QC Preparation: 2008-12-23

Analyzed By: KB  
Prepared By: KB

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 55.6          | µg/L  | 1    | 50.0            | <0.319           | 111  | 89.5 - 113.9  |
| Toluene      | 54.9          | µg/L  | 1    | 50.0            | <0.268           | 110  | 91.1 - 113.8  |
| Ethylbenzene | 54.5          | µg/L  | 1    | 50.0            | <0.245           | 109  | 91.8 - 117.4  |
| m,p-Xylene   | 109           | µg/L  | 1    | 100             | <0.517           | 109  | 91.4 - 120    |
| o-Xylene     | 55.7          | µg/L  | 1    | 50.0            | <0.247           | 111  | 89.3 - 122.4  |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param   | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | 54.2           | µg/L  | 1    | 50.0            | <0.319           | 108  | 89.5 - 113.9  | 3   | 20           |

*continued ...*

control spikes continued ...

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Toluene      | 54.1           | µg/L  | 1    | 50.0            | <0.268           | 108  | 91.1 - 113.8  | 2   | 20           |
| Ethylbenzene | 53.9           | µg/L  | 1    | 50.0            | <0.245           | 108  | 91.8 - 117.4  | 1   | 20           |
| m,p-Xylene   | 106            | µg/L  | 1    | 100             | <0.517           | 106  | 91.4 - 120    | 3   | 20           |
| o-Xylene     | 54.5           | µg/L  | 1    | 50.0            | <0.247           | 109  | 89.3 - 122.4  | 2   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Dibromofluoromethane         | 50.3          | 52.7           | µg/L  | 1    | 50.0            | 101         | 105          | 85.4 - 110.5  |
| Toluene-d8                   | 49.6          | 49.0           | µg/L  | 1    | 50.0            | 99          | 98           | 87 - 108.6    |
| 4-Bromofluorobenzene (4-BFB) | 50.1          | 50.8           | µg/L  | 1    | 50.0            | 100         | 102          | 83.3 - 113    |

#### Laboratory Control Spike (LCS-1)

QC Batch: 55973  
Prep Batch: 47842

Date Analyzed: 2009-01-09  
QC Preparation: 2008-12-18

Analyzed By: MN  
Prepared By: MN

| Param                  | LCS<br>Result | Units | Dil.  | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---------------|-------|-------|-----------------|------------------|------|---------------|
| Naphthalene            | 0.0292        | mg/L  | 0.922 | 0.0800          | <0.0000673       | 36   | 20.4 - 86.5   |
| 2-Methylnaphthalene    | 0.0305        | mg/L  | 0.922 | 0.0800          | <0.0000469       | 38   | 18.2 - 94.2   |
| 1-Methylnaphthalene    | 0.0315        | mg/L  | 0.922 | 0.0800          | <0.0000690       | 39   | 25.4 - 91.1   |
| Acenaphthylene         | 0.0380        | mg/L  | 0.922 | 0.0800          | <0.0000707       | 48   | 32.4 - 109    |
| Acenaphthene           | 0.0374        | mg/L  | 0.922 | 0.0800          | <0.000131        | 47   | 30.4 - 104    |
| Dibenzofuran           | 0.0328        | mg/L  | 0.922 | 0.0800          | <0.0000433       | 41   | 14.8 - 119    |
| Fluorene               | 0.0380        | mg/L  | 0.922 | 0.0800          | <0.0000525       | 48   | 26.5 - 124    |
| Anthracene             | 0.0414        | mg/L  | 0.922 | 0.0800          | <0.0000808       | 52   | 44.2 - 113    |
| Phenanthrene           | 0.0426        | mg/L  | 0.922 | 0.0800          | <0.0000509       | 53   | 44.7 - 109    |
| Fluoranthene           | 0.0466        | mg/L  | 0.922 | 0.0800          | <0.0000880       | 58   | 48.2 - 125    |
| Pyrene                 | 0.0461        | mg/L  | 0.922 | 0.0800          | <0.0000458       | 58   | 40.5 - 128    |
| Benzo(a)anthracene     | 0.0421        | mg/L  | 0.922 | 0.0800          | <0.0000302       | 53   | 45 - 115      |
| Chrysene               | 0.0456        | mg/L  | 0.922 | 0.0800          | <0.0000913       | 57   | 46.8 - 119    |
| Benzo(b)fluoranthene   | 0.0442        | mg/L  | 0.922 | 0.0800          | <0.0000631       | 55   | 39.9 - 129    |
| Benzo(k)fluoranthene   | 0.0476        | mg/L  | 0.922 | 0.0800          | <0.0000765       | 60   | 42.6 - 136    |
| Benzo(a)pyrene         | 0.0496        | mg/L  | 0.922 | 0.0800          | <0.0000506       | 62   | 45 - 143      |
| Indeno(1,2,3-cd)pyrene | 0.0454        | mg/L  | 0.922 | 0.0800          | <0.0000801       | 57   | 51.1 - 156    |
| Dibenzo(a,h)anthracene | 0.0436        | mg/L  | 0.922 | 0.0800          | <0.0000558       | 54   | 48.2 - 151    |
| Benzo(g,h,i)perylene   | 0.0510        | mg/L  | 0.922 | 0.0800          | <0.0000628       | 64   | 48.3 - 152    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

control spikes continued ...

| Param                  | LCS    | Units | Dil.  | Spike Amount | Matrix Result | Rec. | Rec. Limit  | RPD | RPD Limit |
|------------------------|--------|-------|-------|--------------|---------------|------|-------------|-----|-----------|
| Param                  | Result |       |       |              |               |      |             |     |           |
| Naphthalene            | 0.0298 | mg/L  | 0.922 | 0.0800       | <0.0000673    | 37   | 20.4 - 86.5 | 2   | 20        |
| 2-Methylnaphthalene    | 0.0307 | mg/L  | 0.922 | 0.0800       | <0.0000469    | 38   | 18.2 - 94.2 | 1   | 20        |
| 1-Methylnaphthalene    | 0.0316 | mg/L  | 0.922 | 0.0800       | <0.0000690    | 40   | 25.4 - 91.1 | 0   | 20        |
| Acenaphthylene         | 0.0380 | mg/L  | 0.922 | 0.0800       | <0.0000707    | 48   | 32.4 - 109  | 0   | 20        |
| Acenaphthene           | 0.0377 | mg/L  | 0.922 | 0.0800       | <0.000131     | 47   | 30.4 - 104  | 1   | 20        |
| Dibenzofuran           | 0.0328 | mg/L  | 0.922 | 0.0800       | <0.0000433    | 41   | 14.8 - 119  | 0   | 20        |
| Fluorene               | 0.0386 | mg/L  | 0.922 | 0.0800       | <0.0000525    | 48   | 26.5 - 124  | 2   | 20        |
| Anthracene             | 0.0423 | mg/L  | 0.922 | 0.0800       | <0.0000808    | 53   | 44.2 - 113  | 2   | 20        |
| Phenanthrene           | 0.0440 | mg/L  | 0.922 | 0.0800       | <0.0000509    | 55   | 44.7 - 109  | 3   | 20        |
| Fluoranthene           | 0.0476 | mg/L  | 0.922 | 0.0800       | <0.0000880    | 60   | 48.2 - 125  | 2   | 20        |
| Pyrene                 | 0.0465 | mg/L  | 0.922 | 0.0800       | <0.0000458    | 58   | 40.5 - 128  | 1   | 20        |
| Benzo(a)anthracene     | 0.0434 | mg/L  | 0.922 | 0.0800       | <0.0000302    | 54   | 45 - 115    | 3   | 20        |
| Chrysene               | 0.0464 | mg/L  | 0.922 | 0.0800       | <0.0000913    | 58   | 46.8 - 119  | 2   | 20        |
| Benzo(b)fluoranthene   | 0.0445 | mg/L  | 0.922 | 0.0800       | <0.0000631    | 56   | 39.9 - 129  | 1   | 20        |
| Benzo(k)fluoranthene   | 0.0487 | mg/L  | 0.922 | 0.0800       | <0.0000765    | 61   | 42.6 - 136  | 2   | 20        |
| Benzo(a)pyrene         | 0.0500 | mg/L  | 0.922 | 0.0800       | <0.0000506    | 62   | 45 - 143    | 1   | 20        |
| Indeno(1,2,3-cd)pyrene | 0.0460 | mg/L  | 0.922 | 0.0800       | <0.0000801    | 58   | 51.1 - 156  | 1   | 20        |
| Dibenzo(a,h)anthracene | 0.0445 | mg/L  | 0.922 | 0.0800       | <0.0000558    | 56   | 48.2 - 151  | 2   | 20        |
| Benzo(g,h,i)perylene   | 0.0518 | mg/L  | 0.922 | 0.0800       | <0.0000628    | 65   | 48.3 - 152  | 2   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate        | LCS Result | LCS Result | Units | Dil.  | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit  |
|------------------|------------|------------|-------|-------|--------------|----------|----------|-------------|
| Nitrobenzene-d5  | 0.0380     | 0.0394     | mg/L  | 0.922 | 0.0800       | 48       | 49       | 15.8 - 97.2 |
| 2-Fluorobiphenyl | 0.0427     | 0.0431     | mg/L  | 0.922 | 0.0800       | 53       | 54       | 16 - 91.6   |
| Terphenyl-d14    | 0.0526     | 0.0533     | mg/L  | 0.922 | 0.0800       | 66       | 67       | 55 - 117    |

Matrix Spike (MS-1) Spiked Sample: 183425

QC Batch: 55502  
Prep Batch: 47435

Date Analyzed: 2008-12-23  
QC Preparation: 2008-12-23

Analyzed By: KB  
Prepared By: KB

| Param        | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit   |
|--------------|-----------|-------|------|--------------|---------------|------|--------------|
| Benzene      | 48.3      | µg/L  | 1    | 50.0         | <0.319        | 97   | 63.3 - 136.4 |
| Toluene      | 46.9      | µg/L  | 1    | 50.0         | <0.268        | 94   | 10 - 205.6   |
| Ethylbenzene | 46.3      | µg/L  | 1    | 50.0         | <0.245        | 93   | 81.8 - 123.6 |
| m,p-Xylene   | 91.2      | µg/L  | 1    | 100          | <0.517        | 91   | 36 - 162.4   |
| o-Xylene     | 47.3      | µg/L  | 1    | 50.0         | <0.247        | 95   | 40.7 - 160.6 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: January 14, 2009  
Westgate

Work Order: 8122321  
Westgate

Page Number: 17 of 19  
Hobbs, NM

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 49.9          | µg/L  | 1    | 50.0            | <0.319           | 100  | 63.3 - 136.4  | 3   | 20           |
| Toluene      | 47.4          | µg/L  | 1    | 50.0            | <0.268           | 95   | 10 - 205.6    | 1   | 20           |
| Ethylbenzene | 45.5          | µg/L  | 1    | 50.0            | <0.245           | 91   | 81.8 - 123.6  | 2   | 20           |
| m,p-Xylene   | 91.0          | µg/L  | 1    | 100             | <0.517           | 91   | 36 - 162.4    | 0   | 20           |
| o-Xylene     | 47.8          | µg/L  | 1    | 50.0            | <0.247           | 96   | 40.7 - 160.6  | 1   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 53.1         | 53.3          | µg/L  | 1    | 50              | 106        | 107         | 89 - 112.8    |
| Toluene-d8                   | 50.6         | 50.8          | µg/L  | 1    | 50              | 101        | 102         | 86.2 - 109.5  |
| 4-Bromofluorobenzene (4-BFB) | 50.4         | 50.8          | µg/L  | 1    | 50              | 101        | 102         | 81.3 - 115.4  |

**Matrix Spike (MS-1)** Spiked Sample: 183420

QC Batch: 55973  
Prep Batch: 47842

Date Analyzed: 2009-01-09  
QC Preparation: 2008-12-18

Analyzed By: MN  
Prepared By: MN

| Param                  | MS<br>Result        | Units | Dil.  | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---------------------|-------|-------|-----------------|------------------|------|---------------|
| Naphthalene            | 0.0366              | mg/L  | 0.926 | 0.0800          | <0.0000676       | 46   | 17.2 - 92.9   |
| 2-Methylnaphthalene    | <sup>1</sup> 0.0333 | mg/L  | 0.926 | 0.0800          | <0.0000471       | 42   | 50 - 150      |
| 1-Methylnaphthalene    | <sup>2</sup> 0.0346 | mg/L  | 0.926 | 0.0800          | <0.0000693       | 43   | 50 - 150      |
| Acenaphthylene         | 0.0454              | mg/L  | 0.926 | 0.0800          | <0.0000710       | 57   | 21.7 - 109    |
| Acenaphthene           | 0.0460              | mg/L  | 0.926 | 0.0800          | <0.000131        | 58   | 20.5 - 106    |
| Dibenzofuran           | 0.0460              | mg/L  | 0.926 | 0.0800          | <0.0000435       | 58   | 20.4 - 114    |
| Fluorene               | 0.0544              | mg/L  | 0.926 | 0.0800          | <0.0000527       | 68   | 18.9 - 118    |
| Anthracene             | 0.0469              | mg/L  | 0.926 | 0.0800          | <0.0000811       | 59   | 31.9 - 120    |
| Phenanthrene           | 0.0497              | mg/L  | 0.926 | 0.0800          | <0.0000511       | 62   | 32.9 - 121    |
| Fluoranthene           | 0.0512              | mg/L  | 0.926 | 0.0800          | <0.0000883       | 64   | 32.8 - 136    |
| Pyrene                 | 0.0533              | mg/L  | 0.926 | 0.0800          | <0.0000460       | 67   | 10 - 170      |
| Benzo(a)anthracene     | 0.0500              | mg/L  | 0.926 | 0.0800          | <0.0000304       | 62   | 18.5 - 136    |
| Chrysene               | 0.0528              | mg/L  | 0.926 | 0.0800          | <0.0000917       | 66   | 18.6 - 145    |
| Benzo(b)fluoranthene   | 0.0478              | mg/L  | 0.926 | 0.0800          | <0.0000633       | 60   | 18 - 135      |
| Benzo(k)fluoranthene   | 0.0511              | mg/L  | 0.926 | 0.0800          | <0.0000768       | 64   | 20.2 - 150    |
| Benzo(a)pyrene         | 0.0569              | mg/L  | 0.926 | 0.0800          | <0.0000508       | 71   | 21.8 - 146    |
| Indeno(1,2,3-cd)pyrene | 0.0507              | mg/L  | 0.926 | 0.0800          | <0.0000805       | 63   | 25.2 - 150    |
| Dibenzo(a,h)anthracene | 0.0505              | mg/L  | 0.926 | 0.0800          | <0.0000560       | 63   | 15 - 156      |
| Benzo(g,h,i)perylene   | 0.0581              | mg/L  | 0.926 | 0.0800          | <0.0000631       | 73   | 31 - 136      |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

<sup>1</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>2</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.



| Param                  | MSD<br>Result       | Units | Dil.  | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---------------------|-------|-------|-----------------|------------------|------|---------------|-----|--------------|
| Naphthalene            | 0.0372              | mg/L  | 0.926 | 0.0800          | <0.0000676       | 46   | 17.2 - 92.9   | 2   | 20           |
| 2-Methylnaphthalene    | <sup>3</sup> 0.0331 | mg/L  | 0.926 | 0.0800          | <0.0000471       | 41   | 50 - 150      | 1   | 20           |
| 1-Methylnaphthalene    | <sup>4</sup> 0.0342 | mg/L  | 0.926 | 0.0800          | <0.0000693       | 43   | 50 - 150      | 1   | 20           |
| Acenaphthylene         | 0.0458              | mg/L  | 0.926 | 0.0800          | <0.0000710       | 57   | 21.7 - 109    | 1   | 20           |
| Acenaphthene           | 0.0464              | mg/L  | 0.926 | 0.0800          | <0.000131        | 58   | 20.5 - 106    | 1   | 20           |
| Dibenzofuran           | 0.0458              | mg/L  | 0.926 | 0.0800          | <0.0000435       | 57   | 20.4 - 114    | 0   | 20           |
| Fluorene               | 0.0554              | mg/L  | 0.926 | 0.0800          | <0.0000527       | 69   | 18.9 - 118    | 2   | 20           |
| Anthracene             | 0.0482              | mg/L  | 0.926 | 0.0800          | <0.0000811       | 60   | 31.9 - 120    | 3   | 20           |
| Phenanthrene           | 0.0504              | mg/L  | 0.926 | 0.0800          | <0.0000511       | 63   | 32.9 - 121    | 1   | 20           |
| Fluoranthene           | 0.0519              | mg/L  | 0.926 | 0.0800          | <0.0000883       | 65   | 32.8 - 136    | 1   | 20           |
| Pyrene                 | 0.0538              | mg/L  | 0.926 | 0.0800          | <0.0000460       | 67   | 10 - 170      | 1   | 20           |
| Benzo(a)anthracene     | 0.0498              | mg/L  | 0.926 | 0.0800          | <0.0000304       | 62   | 18.5 - 136    | 0   | 20           |
| Chrysene               | 0.0527              | mg/L  | 0.926 | 0.0800          | <0.0000917       | 66   | 18.6 - 145    | 0   | 20           |
| Benzo(b)fluoranthene   | 0.0499              | mg/L  | 0.926 | 0.0800          | <0.0000633       | 62   | 18 - 135      | 4   | 20           |
| Benzo(k)fluoranthene   | 0.0516              | mg/L  | 0.926 | 0.0800          | <0.0000768       | 64   | 20.2 - 150    | 1   | 20           |
| Benzo(a)pyrene         | 0.0586              | mg/L  | 0.926 | 0.0800          | <0.0000508       | 73   | 21.8 - 146    | 3   | 20           |
| Indeno(1,2,3-cd)pyrene | 0.0516              | mg/L  | 0.926 | 0.0800          | <0.0000805       | 64   | 25.2 - 150    | 2   | 20           |
| Dibenzo(a,h)anthracene | 0.0520              | mg/L  | 0.926 | 0.0800          | <0.0000560       | 65   | 15 - 156      | 3   | 20           |
| Benzo(g,h,i)perylene   | 0.0588              | mg/L  | 0.926 | 0.0800          | <0.0000631       | 74   | 31 - 136      | 1   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate        | MS<br>Result | MSD<br>Result | Units | Dil.  | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------|--------------|---------------|-------|-------|-----------------|------------|-------------|---------------|
| Nitrobenzene-d5  | 0.0526       | 0.0537        | mg/L  | 0.926 | 0.08            | 66         | 67          | 15.8 - 97.2   |
| 2-Fluorobiphenyl | 0.0462       | 0.0474        | mg/L  | 0.926 | 0.08            | 58         | 59          | 16 - 91.6     |
| Terphenyl-d14    | 0.0620       | 0.0612        | mg/L  | 0.926 | 0.08            | 78         | 76          | 55 - 117      |

#### Standard (CCV-1)

QC Batch: 55502

Date Analyzed: 2008-12-23

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | µg/L  | 50.0                  | 44.8                   | 90                          | 80 - 120                      | 2008-12-23       |
| Toluene      |      | µg/L  | 50.0                  | 44.7                   | 89                          | 80 - 120                      | 2008-12-23       |
| Ethylbenzene |      | µg/L  | 50.0                  | 43.8                   | 88                          | 80 - 120                      | 2008-12-23       |
| m,p-Xylene   |      | µg/L  | 100                   | 88.4                   | 88                          | 80 - 120                      | 2008-12-23       |
| o-Xylene     |      | µg/L  | 50.0                  | 45.6                   | 91                          | 80 - 120                      | 2008-12-23       |

<sup>3</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>4</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: January 14, 2009  
Westgate

Work Order: 8122321  
Westgate

Page Number: 19 of 19  
Hobbs, NM

# Standard (CCV-2)

QC Batch: 55973

Date Analyzed: 2009-01-09

Analyzed By: MN

| Param                  | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Naphthalene            |      | mg/L  | 60.0                  | 60.0                   | 100                         | 80 - 120                      | 2009-01-09       |
| 2-Methylnaphthalene    |      | mg/L  | 60.0                  | 53.9                   | 90                          | 80 - 120                      | 2009-01-09       |
| 1-Methylnaphthalene    |      | mg/L  | 60.0                  | 53.7                   | 90                          | 80 - 120                      | 2009-01-09       |
| Acenaphthylene         |      | mg/L  | 60.0                  | 60.7                   | 101                         | 80 - 120                      | 2009-01-09       |
| Acenaphthene           |      | mg/L  | 60.0                  | 61.6                   | 103                         | 80 - 120                      | 2009-01-09       |
| Dibenzofuran           |      | mg/L  | 60.0                  | 64.8                   | 108                         | 80 - 120                      | 2009-01-09       |
| Fluorene               |      | mg/L  | 60.0                  | 70.5                   | 118                         | 80 - 120                      | 2009-01-09       |
| Anthracene             |      | mg/L  | 60.0                  | 61.6                   | 103                         | 80 - 120                      | 2009-01-09       |
| Phenanthrene           |      | mg/L  | 60.0                  | 60.2                   | 100                         | 80 - 120                      | 2009-01-09       |
| Fluoranthene           |      | mg/L  | 60.0                  | 57.9                   | 96                          | 80 - 120                      | 2009-01-09       |
| Pyrene                 |      | mg/L  | 60.0                  | 60.2                   | 100                         | 80 - 120                      | 2009-01-09       |
| Benzo(a)anthracene     |      | mg/L  | 60.0                  | 56.4                   | 94                          | 80 - 120                      | 2009-01-09       |
| Chrysene               |      | mg/L  | 60.0                  | 59.4                   | 99                          | 80 - 120                      | 2009-01-09       |
| Benzo(b)fluoranthene   |      | mg/L  | 60.0                  | 59.6                   | 99                          | 80 - 120                      | 2009-01-09       |
| Benzo(k)fluoranthene   |      | mg/L  | 60.0                  | 58.2                   | 97                          | 80 - 120                      | 2009-01-09       |
| Benzo(a)pyrene         |      | mg/L  | 60.0                  | 64.4                   | 107                         | 80 - 120                      | 2009-01-09       |
| Indeno(1,2,3-cd)pyrene |      | mg/L  | 60.0                  | 58.6                   | 98                          | 80 - 120                      | 2009-01-09       |
| Dibenzo(a,h)anthracene |      | mg/L  | 60.0                  | 58.8                   | 98                          | 80 - 120                      | 2009-01-09       |
| Benzo(g,h,i)perylene   |      | mg/L  | 60.0                  | 65.9                   | 110                         | 80 - 120                      | 2009-01-09       |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |      | 67.5   | mg/L  | 1        | 60.0            | 112                 | 80 - 120          |
| 2-Fluorobiphenyl |      | 56.2   | mg/L  | 1        | 60.0            | 94                  | 80 - 120          |
| Terphenyl-d14    |      | 57.2   | mg/L  | 1        | 60.0            | 95                  | 80 - 120          |

# TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1266

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

8808 Camp Bowie Blvd. West, Suite 180  
Ft. Worth, Texas 76116  
Tel (817) 201-5260  
Fax (817) 560-4336

email: lab@traceanalysis.com

Company Name: **BBC INTERNATIONAL** Phone #: **(571) 3976388**

Address: **1524 W. MARLAND, HOBBS NM** Fax #: **(571) 3970397**

Contact Person: **Cliff BRUNSON** E-mail:

Invoice to: (If different from above)

Project #:

Project Name: **WETGATE**

Project Location (including state): **HOBBS, New Mexico** Sampler Signature: *[Signature]*

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     |      | SAMPLING |      | DATE  | TIME  | MTBE 8021B / 602 | BTEX 8021B / 602 | TPH 418.1 / TX100 | TPH 8015 GRO / D | PAH 8270C / 925 | Total Metals Ag As Ba | TCLP Metals Ag As | TCLP Volatiles | TCLP Semi Volatile | TCLP Pesticides | RCI | GC/MS Vol. 8260B | GC/MS Semi. Vol. | PCBs 8082 / 608 | Pesticides 8081A / | BOD, TSS, pH | Moisture Content | Turn Around Time | Hold |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------|------------|--------------|-----------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|------|----------|------|-------|-------|------------------|------------------|-------------------|------------------|-----------------|-----------------------|-------------------|----------------|--------------------|-----------------|-----|------------------|------------------|-----------------|--------------------|--------------|------------------|------------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                         |            |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE | DATE     | TIME |       |       |                  |                  |                   |                  |                 |                       |                   |                |                    |                 |     |                  |                  |                 |                    |              |                  |                  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18340                   | MW 10      | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                |      | ✓   |      |          |      | 12/08 | 10:09 |                  | ✓                |                   |                  |                 | ✓                     |                   |                |                    |                 |     |                  |                  |                 |                    |              |                  |                  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Relinquished by: **Rogun Hernandez** Date: **12/09/08** Time: **5:00**

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

## ANALYSIS REQUEST (Circle or Specify Method No.)

|                                                         |                                                         |                                                               |                                                    |                                          |                                                                           |                                                              |                                         |                                              |                                          |                              |                                                 |                                                       |                                           |                                                 |                                       |                                           |                                                                      |
|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------|----------------------------------------------|------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------------------|-------------------------------------------|-------------------------------------------------|---------------------------------------|-------------------------------------------|----------------------------------------------------------------------|
| <input type="checkbox"/> MTBE 8021B / 602 / 8260B / 624 | <input type="checkbox"/> BTEX 8021B / 602 / 8260B / 624 | <input type="checkbox"/> TPH 418.1 / TX1005 / TX1005 Ext(C35) | <input type="checkbox"/> TPH 8015 GRO / DRO / TVHC | <input type="checkbox"/> PAH 8270C / 625 | <input type="checkbox"/> Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | <input type="checkbox"/> TCLP Metals Ag As Ba Cd Cr Pb Se Hg | <input type="checkbox"/> TCLP Volatiles | <input type="checkbox"/> TCLP Semi Volatiles | <input type="checkbox"/> TCLP Pesticides | <input type="checkbox"/> RCI | <input type="checkbox"/> GC/MS Vol. 8260B / 624 | <input type="checkbox"/> GC/MS Semi. Vol. 8270C / 625 | <input type="checkbox"/> PCB's 8082 / 608 | <input type="checkbox"/> Pesticides 8081A / 608 | <input type="checkbox"/> BOD, TSS, pH | <input type="checkbox"/> Moisture Content | <input type="checkbox"/> Turn Around Time if different from standard |
|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------|----------------------------------------------|------------------------------------------|------------------------------|-------------------------------------------------|-------------------------------------------------------|-------------------------------------------|-------------------------------------------------|---------------------------------------|-------------------------------------------|----------------------------------------------------------------------|

### REMARKS:

LAB USE ONLY

Initials: **[Signature]**

Headspace: **Y** **N** **NA**

Log-In-Review: **[Signature]**

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

# TraceAnalysis, Inc.

email: [lab@traceanalysis.com](mailto:lab@traceanalysis.com)

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

Camp Bowie Blvd. West, Suite 180  
 Ft. Worth, Texas 76116  
 Tel (817) 201-5260  
 Fax (817) 560-4336

Phone #: (575) 397-6308  
Fax #: (575) 397-0397  
E-mail:

Company Name: BBC INTERNATIONAL  
Address: (Street, City, Zip)  
1324 W. MARLAND HOBBS NM  
Contact Person: Cliff Brunson  
Invoice to:

Invoice to: St. Vincent  
(If different from above)  
Project #: 112727  
Project Name: MENTAL

Project Location (including state): Illinois 111A

Very truly  
yours

[illegible]ANALYSIS REQUEST  
(Circle or Specify Method No.)[illegible]

|          |  |
|----------|--|
| REMARKS: |  |
|----------|--|

**LAB USE ONLY**

- ☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check if Special Reporting Limits Are Needed

|                                         |                     |                      |                   |              |          |       |       |         |
|-----------------------------------------|---------------------|----------------------|-------------------|--------------|----------|-------|-------|---------|
| Relinquished by: <b>Roger Hernandez</b> | Company: <b>ABC</b> | Date: <b>7/19/08</b> | Time: <b>5:00</b> | Received by: | Company: | Date: | Time: | Temp°c: |
| Relinquished by:                        | Company:            | Date:                | Time:             | Received by: | Company: | Date: | Time: | Temp°c: |
| Relinquished by:                        | Company:            | Date:                | Time:             | Received by: | Company: | Date: | Time: | Temp°c: |

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

REINIKI RYBY

Carrier # 796206227148

# APPENDIX II

---

**TRACE ANALYSIS, INC.**  
Laboratory Results 2009

Westgate Subdivision  
Grimes Battery & Tasker Road

**August 2012**

Shell Exploration & Production Company  
Houston, Texas

Prepared by:  
BBC International, Inc.

## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: April 1, 2009

Work Order: 9032716



Project Location: Hobbs, NM  
Project Name: Shell Westgate

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 191467 | MW #2       | water  | 2009-03-25 | 13:39      | 2009-03-27    |
| 191468 | MW #10      | water  | 2009-03-25 | 14:08      | 2009-03-27    |
| 191469 | MW #8       | water  | 2009-03-25 | 15:00      | 2009-03-27    |
| 191470 | MW #9       | water  | 2009-03-25 | 15:31      | 2009-03-27    |

### Sample: 191467 - MW #2

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

### Sample: 191468 - MW #10

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

### Sample: 191469 - MW #8

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

**Sample: 191470 - MW #9**

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |



6701 Aberdeen Avenue, Suite 9    Lubbock, Texas 79424    800•378•1296    806•794•1296    FAX 806•794•1298  
200 East Sunset Road, Suite E    El Paso, Texas 79922    888•588•3443    915•585•3443    FAX 915•585•4944  
5002 Basin Street, Suite A1    Midland, Texas 79703    432•689•6301    FAX 432•689•6313  
6015 Harris Parkway, Suite 110    Ft. Worth, Texas 76132    817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBENC: 237019

HUB: 1752439743100-86536  
NCTRCA WFWB38444Y0909

DBE: VN 20657

## NELAP Certifications

Lubbock: T104704219-08-TX  
LELAP-02003  
Kansas E-10317

El Paso: T104704221-08-TX  
LELAP-02002

Midland: T104704392-08-TX

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: April 1, 2009

Work Order: 9032716



Project Location: Hobbs, NM  
Project Name: Shell Westgate  
Project Number: Shell Westgate

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date<br>Taken | Time<br>Taken | Date<br>Received |
|--------|-------------|--------|---------------|---------------|------------------|
| 191467 | MW #2       | water  | 2009-03-25    | 13:39         | 2009-03-27       |
| 191468 | MW #10      | water  | 2009-03-25    | 14:08         | 2009-03-27       |
| 191469 | MW #8       | water  | 2009-03-25    | 15:00         | 2009-03-27       |
| 191470 | MW #9       | water  | 2009-03-25    | 15:31         | 2009-03-27       |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.





---

Dr. Blair Leftwich, Director

#### Standard Flags

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Shell Westgate were received by TraceAnalysis, Inc. on 2009-03-27 and assigned to work order 9032716. Samples for work order 9032716 were received intact without headspace and at a temperature of 4.4 deg. C.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method  | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|-----------|---------|---------------|---------------------|-------------|---------------------|
| Volatiles | S 8260B | 49640         | 2009-03-30 at 12:00 | 58120       | 2009-03-30 at 12:00 |
| Volatiles | S 8260B | 49665         | 2009-03-31 at 12:00 | 58151       | 2009-03-31 at 12:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9032716 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: April 1, 2009  
Shell Westgate

Work Order: 9032716  
Shell Westgate

Page Number: 4 of 11  
Hobbs, NM

## Analytical Report

Sample: 191467 - MW #2

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 58120  
Prep Batch: 49640

Analytical Method: S 8260B  
Date Analyzed: 2009-03-30  
Sample Preparation: 2009-03-30

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 53.4   | µg/L  | 1        | 50.0            | 107                 | 75.3 - 131         |
| Toluene-d8                   |      | 51.0   | µg/L  | 1        | 50.0            | 102                 | 91.4 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 49.3   | µg/L  | 1        | 50.0            | 99                  | 83.8 - 108         |

Sample: 191468 - MW #10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 58120  
Prep Batch: 49640

Analytical Method: S 8260B  
Date Analyzed: 2009-03-30  
Sample Preparation: 2009-03-30

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 54.6   | µg/L  | 1        | 50.0            | 109                 | 75.3 - 131         |
| Toluene-d8                   |      | 51.1   | µg/L  | 1        | 50.0            | 102                 | 91.4 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 50.1   | µg/L  | 1        | 50.0            | 100                 | 83.8 - 108         |

Report Date: April 1, 2009  
Shell Westgate

Work Order: 9032716  
Shell Westgate

Page Number: 5 of 11  
Hobbs, NM

**Sample: 191469 - MW #8**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 58120  
Prep Batch: 49640

Analytical Method: S 8260B  
Date Analyzed: 2009-03-30  
Sample Preparation: 2009-03-30

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 54.3   | µg/L  | 1        | 50.0            | 109                 | 75.3 - 131         |
| Toluene-d8                   |      | 51.5   | µg/L  | 1        | 50.0            | 103                 | 91.4 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 50.5   | µg/L  | 1        | 50.0            | 101                 | 83.8 - 108         |

**Sample: 191470 - MW #9**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 58151  
Prep Batch: 49665

Analytical Method: S 8260B  
Date Analyzed: 2009-03-31  
Sample Preparation: 2009-03-31

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 51.9   | µg/L  | 1        | 50.0            | 104                 | 75.3 - 131         |
| Toluene-d8                   |      | 52.1   | µg/L  | 1        | 50.0            | 104                 | 91.4 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 49.8   | µg/L  | 1        | 50.0            | 100                 | 83.8 - 108         |

**Method Blank (1)**      QC Batch: 58120

QC Batch: 58120  
Prep Batch: 49640

Date Analyzed: 2009-03-30  
QC Preparation: 2009-03-30

Analyzed By: KB  
Prepared By: KB

Report Date: April 1, 2009  
Shell Westgate

Work Order: 9032716  
Shell Westgate

Page Number: 6 of 11  
Hobbs, NM

| Parameter        | Flag | MDL<br>Result | Units | RL |
|------------------|------|---------------|-------|----|
| 2-Butanone (MEK) |      | <0.810        | µg/L  | 5  |
| MTBE             |      | <0.400        | µg/L  | 1  |
| Benzene          |      | <0.240        | µg/L  | 1  |
| Toluene          |      | <0.270        | µg/L  | 1  |
| Ethylbenzene     |      | <0.260        | µg/L  | 1  |
| m,p-Xylene       |      | <0.540        | µg/L  | 1  |
| o-Xylene         |      | <0.260        | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 52.6   | µg/L  | 1        | 50.0            | 105                 | 75.3 - 131         |
| Toluene-d8                   |      | 51.3   | µg/L  | 1        | 50.0            | 103                 | 91.4 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 49.5   | µg/L  | 1        | 50.0            | 99                  | 83.8 - 108         |

**Method Blank (1)**      QC Batch: 58151

QC Batch: 58151  
Prep Batch: 49665

Date Analyzed: 2009-03-31  
QC Preparation: 2009-03-31

Analyzed By: KB  
Prepared By: KB

| Parameter        | Flag | MDL<br>Result | Units | RL |
|------------------|------|---------------|-------|----|
| 2-Butanone (MEK) |      | <0.810        | µg/L  | 5  |
| MTBE             |      | <0.400        | µg/L  | 1  |
| Benzene          |      | <0.240        | µg/L  | 1  |
| Toluene          |      | <0.270        | µg/L  | 1  |
| Ethylbenzene     |      | <0.260        | µg/L  | 1  |
| m,p-Xylene       |      | <0.540        | µg/L  | 1  |
| o-Xylene         |      | <0.260        | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 50.0   | µg/L  | 1        | 50.0            | 100                 | 75.3 - 131         |
| Toluene-d8                   |      | 52.4   | µg/L  | 1        | 50.0            | 105                 | 91.4 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 50.6   | µg/L  | 1        | 50.0            | 101                 | 83.8 - 108         |

**Laboratory Control Spike (LCS-1)**

QC Batch: 58120  
Prep Batch: 49640

Date Analyzed: 2009-03-30  
QC Preparation: 2009-03-30

Analyzed By: KB  
Prepared By: KB

Report Date: April 1, 2009  
Shell Westgate

Work Order: 9032716  
Shell Westgate

Page Number: 7 of 11  
Hobbs, NM

| Param            | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| 2-Butanone (MEK) | 52.5          | µg/L  | 1    | 50.0            | <0.810           | 105  | 39.9 - 171    |
| MTBE             | 52.8          | µg/L  | 1    | 50.0            | <0.400           | 106  | 81.3 - 125    |
| Benzene          | 47.3          | µg/L  | 1    | 50.0            | <0.240           | 95   | 86.6 - 116    |
| Toluene          | 46.3          | µg/L  | 1    | 50.0            | <0.270           | 93   | 86.6 - 117    |
| Ethylbenzene     | 45.3          | µg/L  | 1    | 50.0            | <0.260           | 91   | 88.4 - 115    |
| m,p-Xylene       | 91.0          | µg/L  | 1    | 100             | <0.540           | 91   | 86.7 - 116    |
| o-Xylene         | 46.6          | µg/L  | 1    | 50.0            | <0.260           | 93   | 86.4 - 120    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param            | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| 2-Butanone (MEK) | 54.8           | µg/L  | 1    | 50.0            | <0.810           | 110  | 39.9 - 171    | 4   | 20           |
| MTBE             | 51.8           | µg/L  | 1    | 50.0            | <0.400           | 104  | 81.3 - 125    | 2   | 20           |
| Benzene          | 48.6           | µg/L  | 1    | 50.0            | <0.240           | 97   | 86.6 - 116    | 3   | 20           |
| Toluene          | 49.9           | µg/L  | 1    | 50.0            | <0.270           | 100  | 86.6 - 117    | 8   | 20           |
| Ethylbenzene     | 48.0           | µg/L  | 1    | 50.0            | <0.260           | 96   | 88.4 - 115    | 6   | 20           |
| m,p-Xylene       | 96.6           | µg/L  | 1    | 100             | <0.540           | 97   | 86.7 - 116    | 6   | 20           |
| o-Xylene         | 48.2           | µg/L  | 1    | 50.0            | <0.260           | 96   | 86.4 - 120    | 3   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Dibromofluoromethane         | 55.8          | 52.9           | µg/L  | 1    | 50.0            | 112         | 106          | 77.3 - 126    |
| Toluene-d8                   | 50.0          | 50.5           | µg/L  | 1    | 50.0            | 100         | 101          | 91.9 - 108    |
| 4-Bromofluorobenzene (4-BFB) | 50.5          | 51.1           | µg/L  | 1    | 50.0            | 101         | 102          | 93 - 107      |

#### Laboratory Control Spike (LCS-1)

QC Batch: 58151  
Prep Batch: 49665

Date Analyzed: 2009-03-31  
QC Preparation: 2009-03-31

Analyzed By: KB  
Prepared By: KB

| Param            | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| 2-Butanone (MEK) | 60.8          | µg/L  | 1    | 50.0            | <0.810           | 122  | 39.9 - 171    |
| MTBE             | 52.0          | µg/L  | 1    | 50.0            | <0.400           | 104  | 81.3 - 125    |
| Benzene          | 48.4          | µg/L  | 1    | 50.0            | <0.240           | 97   | 86.6 - 116    |
| Toluene          | 49.4          | µg/L  | 1    | 50.0            | <0.270           | 99   | 86.6 - 117    |
| Ethylbenzene     | 51.2          | µg/L  | 1    | 50.0            | <0.260           | 102  | 88.4 - 115    |
| m,p-Xylene       | 103           | µg/L  | 1    | 100             | <0.540           | 103  | 86.7 - 116    |
| o-Xylene         | 51.5          | µg/L  | 1    | 50.0            | <0.260           | 103  | 86.4 - 120    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: April 1, 2009  
Shell Westgate

Work Order: 9032716  
Shell Westgate

Page Number: 8 of 11  
Hobbs, NM

| Param            | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| 2-Butanone (MEK) | 63.7           | µg/L  | 1    | 50.0            | <0.810           | 127  | 39.9 - 171    | 5   | 20           |
| MTBE             | 53.9           | µg/L  | 1    | 50.0            | <0.400           | 108  | 81.3 - 125    | 4   | 20           |
| Benzene          | 50.3           | µg/L  | 1    | 50.0            | <0.240           | 101  | 86.6 - 116    | 4   | 20           |
| Toluene          | 51.7           | µg/L  | 1    | 50.0            | <0.270           | 103  | 86.6 - 117    | 4   | 20           |
| Ethylbenzene     | 53.6           | µg/L  | 1    | 50.0            | <0.260           | 107  | 88.4 - 115    | 5   | 20           |
| m,p-Xylene       | 108            | µg/L  | 1    | 100             | <0.540           | 108  | 86.7 - 116    | 5   | 20           |
| o-Xylene         | 53.9           | µg/L  | 1    | 50.0            | <0.260           | 108  | 86.4 - 120    | 5   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Dibromofluoromethane         | 50.2          | 49.8           | µg/L  | 1    | 50.0            | 100         | 100          | 77.3 - 126    |
| Toluene-d8                   | 51.4          | 51.5           | µg/L  | 1    | 50.0            | 103         | 103          | 91.9 - 108    |
| 4-Bromofluorobenzene (4-BFB) | 51.2          | 51.5           | µg/L  | 1    | 50.0            | 102         | 103          | 93 - 107      |

**Matrix Spike (MS-1)** Spiked Sample: 191404

QC Batch: 58120  
Prep Batch: 49640

Date Analyzed: 2009-03-30  
QC Preparation: 2009-03-30

Analyzed By: KB  
Prepared By: KB

| Param            | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------|--------------|-------|------|-----------------|------------------|------|---------------|
| 2-Butanone (MEK) | 54.3         | µg/L  | 1    | 50.0            | <0.810           | 109  | 34.8 - 143    |
| MTBE             | 59.6         | µg/L  | 1    | 50.0            | <0.400           | 119  | 45.3 - 173    |
| Benzene          | 53.4         | µg/L  | 1    | 50.0            | <0.240           | 107  | 59.1 - 151    |
| Toluene          | 54.7         | µg/L  | 1    | 50.0            | <0.270           | 109  | 61.7 - 143    |
| Ethylbenzene     | 51.7         | µg/L  | 1    | 50.0            | <0.260           | 103  | 59.2 - 144    |
| m,p-Xylene       | 104          | µg/L  | 1    | 100             | <0.540           | 104  | 59.6 - 144    |
| o-Xylene         | 52.0         | µg/L  | 1    | 50.0            | <0.260           | 104  | 59.9 - 151    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param            | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| 2-Butanone (MEK) | 52.9          | µg/L  | 1    | 50.0            | <0.810           | 106  | 34.8 - 143    | 3   | 20           |
| MTBE             | 60.4          | µg/L  | 1    | 50.0            | <0.400           | 121  | 45.3 - 173    | 1   | 20           |
| Benzene          | 53.2          | µg/L  | 1    | 50.0            | <0.240           | 106  | 59.1 - 151    | 0   | 20           |
| Toluene          | 54.3          | µg/L  | 1    | 50.0            | <0.270           | 109  | 61.7 - 143    | 1   | 20           |
| Ethylbenzene     | 51.5          | µg/L  | 1    | 50.0            | <0.260           | 103  | 59.2 - 144    | 0   | 20           |
| m,p-Xylene       | 103           | µg/L  | 1    | 100             | <0.540           | 103  | 59.6 - 144    | 1   | 20           |
| o-Xylene         | 51.8          | µg/L  | 1    | 50.0            | <0.260           | 104  | 59.9 - 151    | 0   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: April 1, 2009  
Shell Westgate

Work Order: 9032716  
Shell Westgate

Page Number: 9 of 11  
Hobbs, NM

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 53.8         | 54.7          | µg/L  | 1    | 50              | 108        | 109         | 82.8 - 123    |
| Toluene-d8                   | 50.9         | 50.8          | µg/L  | 1    | 50              | 102        | 102         | 92.3 - 106    |
| 4-Bromofluorobenzene (4-BFB) | 50.4         | 50.7          | µg/L  | 1    | 50              | 101        | 101         | 93.2 - 108    |

**Matrix Spike (MS-1)** Spiked Sample: 191470

QC Batch: 58151  
Prep Batch: 49665

Date Analyzed: 2009-03-31  
QC Preparation: 2009-03-31

Analyzed By: KB  
Prepared By: KB

| Param            | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------|--------------|-------|------|-----------------|------------------|------|---------------|
| 2-Butanone (MEK) | 36.4         | µg/L  | 1    | 50.0            | <0.810           | 73   | 34.8 - 143    |
| MTBE             | 48.8         | µg/L  | 1    | 50.0            | <0.400           | 98   | 45.3 - 173    |
| Benzene          | 47.4         | µg/L  | 1    | 50.0            | <0.240           | 95   | 59.1 - 151    |
| Toluene          | 47.8         | µg/L  | 1    | 50.0            | <0.270           | 96   | 61.7 - 143    |
| Ethylbenzene     | 48.0         | µg/L  | 1    | 50.0            | <0.260           | 96   | 59.2 - 144    |
| m,p-Xylene       | 96.7         | µg/L  | 1    | 100             | <0.540           | 97   | 59.6 - 144    |
| o-Xylene         | 49.0         | µg/L  | 1    | 50.0            | <0.260           | 98   | 59.9 - 151    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param            | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| 2-Butanone (MEK) | 39.6          | µg/L  | 1    | 50.0            | <0.810           | 79   | 34.8 - 143    | 8   | 20           |
| MTBE             | 51.8          | µg/L  | 1    | 50.0            | <0.400           | 104  | 45.3 - 173    | 6   | 20           |
| Benzene          | 49.4          | µg/L  | 1    | 50.0            | <0.240           | 99   | 59.1 - 151    | 4   | 20           |
| Toluene          | 50.1          | µg/L  | 1    | 50.0            | <0.270           | 100  | 61.7 - 143    | 5   | 20           |
| Ethylbenzene     | 50.2          | µg/L  | 1    | 50.0            | <0.260           | 100  | 59.2 - 144    | 4   | 20           |
| m,p-Xylene       | 101           | µg/L  | 1    | 100             | <0.540           | 101  | 59.6 - 144    | 4   | 20           |
| o-Xylene         | 51.1          | µg/L  | 1    | 50.0            | <0.260           | 102  | 59.9 - 151    | 4   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 51.8         | 50.9          | µg/L  | 1    | 50              | 104        | 102         | 82.8 - 123    |
| Toluene-d8                   | 51.6         | 51.2          | µg/L  | 1    | 50              | 103        | 102         | 92.3 - 106    |
| 4-Bromofluorobenzene (4-BFB) | 52.0         | 51.2          | µg/L  | 1    | 50              | 104        | 102         | 93.2 - 108    |

**Standard (CCV-1)**

QC Batch: 58120

Date Analyzed: 2009-03-30

Analyzed By: KB



Report Date: April 1, 2009  
Shell Westgate

Work Order: 9032716  
Shell Westgate

Page Number: 10 of 11  
Hobbs, NM

| Param            | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| 2-Butanone (MEK) |      | µg/L  | 50.0                  | 56.6                   | 113                         | 80 - 120                      | 2009-03-30       |
| MTBE             |      | µg/L  | 50.0                  | 55.0                   | 110                         | 80 - 120                      | 2009-03-30       |
| Benzene          |      | µg/L  | 50.0                  | 49.3                   | 99                          | 80 - 120                      | 2009-03-30       |
| Toluene          |      | µg/L  | 50.0                  | 48.0                   | 96                          | 80 - 120                      | 2009-03-30       |
| Ethylbenzene     |      | µg/L  | 50.0                  | 47.0                   | 94                          | 80 - 120                      | 2009-03-30       |
| m,p-Xylene       |      | µg/L  | 100                   | 95.0                   | 95                          | 80 - 120                      | 2009-03-30       |
| o-Xylene         |      | µg/L  | 50.0                  | 48.4                   | 97                          | 80 - 120                      | 2009-03-30       |

**Standard (CCV-2)**

QC Batch: 58120

Date Analyzed: 2009-03-30

Analyzed By: KB

| Param            | Flag         | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------|--------------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| 2-Butanone (MEK) | <sup>1</sup> | µg/L  | 50.0                  | 62.8                   | 126                         | 80 - 120                      | 2009-03-30       |
| Benzene          |              | µg/L  | 50.0                  | 52.3                   | 105                         | 80 - 120                      | 2009-03-30       |

**Standard (CCV-1)**

QC Batch: 58151

Date Analyzed: 2009-03-31

Analyzed By: KB

| Param            | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| 2-Butanone (MEK) |      | µg/L  | 50.0                  | 53.8                   | 108                         | 80 - 120                      | 2009-03-31       |
| MTBE             |      | µg/L  | 50.0                  | 48.7                   | 97                          | 80 - 120                      | 2009-03-31       |
| Benzene          |      | µg/L  | 50.0                  | 46.4                   | 93                          | 80 - 120                      | 2009-03-31       |
| Toluene          |      | µg/L  | 50.0                  | 47.2                   | 94                          | 80 - 120                      | 2009-03-31       |
| Ethylbenzene     |      | µg/L  | 50.0                  | 48.9                   | 98                          | 80 - 120                      | 2009-03-31       |
| m,p-Xylene       |      | µg/L  | 100                   | 98.6                   | 99                          | 80 - 120                      | 2009-03-31       |
| o-Xylene         |      | µg/L  | 50.0                  | 49.5                   | 99                          | 80 - 120                      | 2009-03-31       |

**Standard (CCV-2)**

QC Batch: 58151

Date Analyzed: 2009-03-31

Analyzed By: KB

| Param            | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| 2-Butanone (MEK) |      | µg/L  | 50.0                  | 56.3                   | 113                         | 80 - 120                      | 2009-03-31       |

*continued ...*

<sup>1</sup> Analyte recovery high outside CCV limits. All reportable concentrations will be flagged as estimated values. •

Report Date: April 1, 2009  
Shell Westgate

Work Order: 9032716  
Shell Westgate

Page Number: 11 of 11  
Hobbs, NM

*standard continued ...*

| Param   | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene |      | µg/L  | 50.0                  | 51.0                   | 102                         | 80 - 120                      | 2009-03-31       |

LAB Order ID # 4032716

Page 1 of 1

# TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313

200 East Sunset Rd., Suite E  
El Paso, Texas 79822  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

Company Name: BBC International Phone #: (575) 397-0388  
Address: 1324 W. Marland Fax #: (575) 397-0387  
Contact Person: Cliff Brunson E-mail: \_\_\_\_\_

Invoice to: \_\_\_\_\_  
(If different from above)  
Project #: \_\_\_\_\_  
Project Name: Shell Westgate  
Project Location (including state): \_\_\_\_\_  
Sampler Signature: [Signature]

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     | SAMPLING |  | DATE    | TIME | MTBE 8021 / 602 / 8024 / 6024 / 826 | TPH 418.1 / TX1005 / 7 | TPH 8015 GRO / DRO | PAH 8270 / 625 | Total Metals Ag As Ba Cd C | TCLP Metals Ag As Ba | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC/MS Vol. 8260 / 624 | GC/MS Semi. Vol. 8270 | PCB's 8082 / 608 | Pesticides 8081 / 608 | BOD, TSS, pH | Moisture Content | Turn Around Time if different | Hold |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------|------------|--------------|-----------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|----------|--|---------|------|-------------------------------------|------------------------|--------------------|----------------|----------------------------|----------------------|----------------|---------------------|-----------------|-----|-----------------------|-----------------------|------------------|-----------------------|--------------|------------------|-------------------------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                         |            |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE     |  |         |      |                                     |                        |                    |                |                            |                      |                |                     |                 |     |                       |                       |                  |                       |              |                  |                               |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 191467                  | mw #2      | 3            | 60g             | X      |      |     |        | X                   |                  |                                |      |     |          |  | 3-25-09 | 1:39 | X                                   |                        |                    |                |                            |                      |                |                     |                 |     |                       |                       |                  |                       |              |                  |                               |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Relinquished by: [Signature] Company: BBC Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received by: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received by: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

INST: \_\_\_\_\_ OBS: \_\_\_\_\_ COR: \_\_\_\_\_  
INST: \_\_\_\_\_ OBS: \_\_\_\_\_ COR: \_\_\_\_\_  
INST: \_\_\_\_\_ OBS: \_\_\_\_\_ COR: \_\_\_\_\_

LAB USE ONLY  
Inter: Y N  
Headspace: Y N  
Log-In-Review: Y N

REMARKS:

Turn Around Time if different from standard

Moisture Content

BOD, TSS, pH

Pesticides 8081 / 608

PCBs 8082 / 608

GC/MS Semi. Vol. 8270 / 625

GC/MS Vol. 8260 / 624

RCI

TCLP Pesticides

TCLP Semi Volatiles

TCLP Volatiles

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7

PAH 8270 / 625

TPH 8015 GRO / DRO / TVHC

TPH 418.1 / TX1005 / TX1005 Ex(C35)

BTEX 8021 / 602 / 8260 / 624

MTBE 8021 / 602 / 8260 / 624

Dry Weight Basis Required  
TRRP Report Required  
Check if Special Reporting Limits Are Needed

Carrier # 300 Cy 797450473714

## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: June 29, 2009

Work Order: 9062530



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 200257 | MW #10      | water  | 2009-06-23 | 15:59      | 2009-06-25    |
| 200258 | MW #8       | water  | 2009-06-23 | 15:15      | 2009-06-25    |
| 200259 | MW #9       | water  | 2009-06-23 | 15:38      | 2009-06-25    |

### Sample: 200257 - MW #10

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

### Sample: 200258 - MW #8

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

---

Sample: 200259 - MW #9

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

---



6701 Aberdeen Avenue, Suite 9    Lubbock, Texas 79424    800•378•1296    806•794•1296    FAX 806•794•1298  
200 East Sunset Road, Suite E    El Paso, Texas 79922    888•588•3443    915•585•3443    FAX 915•585•4944  
5002 Basin Street, Suite A1    Midland, Texas 79703    432•689•6301    FAX 432•689•6313  
6015 Harris Parkway, Suite 110    Ft. Worth, Texas 76132    817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBENC: 237019    HUB: 1752439743100-86536    DBE: VN 20657  
NCTRCA WFWB38444Y0909

## NELAP Certifications

Lubbock: T104704219-08-TX    El Paso: T104704221-08-TX    Midland: T104704392-08-TX  
LELAP-02003    LELAP-02002  
Kansas E-10317

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: June 29, 2009

Work Order: 9062530



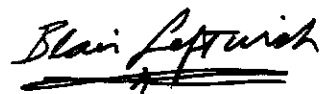
GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 200257 | MW #10      | water  | 2009-06-23 | 15:59      | 2009-06-25    |
| 200258 | MW #8       | water  | 2009-06-23 | 15:15      | 2009-06-25    |
| 200259 | MW #9       | water  | 2009-06-23 | 15:38      | 2009-06-25    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style and is positioned above a horizontal line.

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

#### Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Westgate were received by TraceAnalysis, Inc. on 2009-06-25 and assigned to work order 9062530. Samples for work order 9062530 were received intact without headspace and at a temperature of 5.8 deg. C.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method  | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|-----------|---------|---------------|---------------------|-------------|---------------------|
| Volatiles | S 8260B | 51920         | 2009-06-25 at 12:00 | 60865       | 2009-06-25 at 12:00 |
| Volatiles | S 8260B | 51975         | 2009-06-26 at 12:00 | 60930       | 2009-06-26 at 12:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9062530 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.



Report Date: June 29, 2009  
Westgate

Work Order: 9062530  
Westgate

Page Number: 4 of 9  
Hobbs, NM

## Analytical Report

Sample: 200257 - MW #10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 60865  
Prep Batch: 51920

Analytical Method: S 8260B  
Date Analyzed: 2009-06-25  
Sample Preparation: 2009-06-25

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 57.5   | µg/L  | 1        | 50.0            | 115                 | 75.3 - 131         |
| Toluene-d8                   |      | 48.8   | µg/L  | 1        | 50.0            | 98                  | 91.4 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 49.0   | µg/L  | 1        | 50.0            | 98                  | 83.8 - 108         |

Sample: 200258 - MW #8

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 60865  
Prep Batch: 51920

Analytical Method: S 8260B  
Date Analyzed: 2009-06-25  
Sample Preparation: 2009-06-25

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 58.2   | µg/L  | 1        | 50.0            | 116                 | 75.3 - 131         |
| Toluene-d8                   |      | 48.6   | µg/L  | 1        | 50.0            | 97                  | 91.4 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 51.0   | µg/L  | 1        | 50.0            | 102                 | 83.8 - 108         |

Report Date: June 29, 2009  
Westgate

Work Order: 9062530  
Westgate

Page Number: 5 of 9  
Hobbs, NM

**Sample: 200259 - MW #9**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 60930  
Prep Batch: 51975

Analytical Method: S 8260B  
Date Analyzed: 2009-06-26  
Sample Preparation: 2009-06-26

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 56.7   | µg/L  | 1        | 50.0            | 113                 | 75.3 - 131         |
| Toluene-d8                   |      | 48.4   | µg/L  | 1        | 50.0            | 97                  | 91.4 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 50.9   | µg/L  | 1        | 50.0            | 102                 | 83.8 - 108         |

**Method Blank (1)**      QC Batch: 60865

QC Batch: 60865  
Prep Batch: 51920

Date Analyzed: 2009-06-25  
QC Preparation: 2009-06-25

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | MDL<br>Result | Units | RL |
|--------------|------|---------------|-------|----|
| Benzene      |      | <0.240        | µg/L  | 1  |
| Toluene      |      | <0.270        | µg/L  | 1  |
| Ethylbenzene |      | <0.260        | µg/L  | 1  |
| m,p-Xylene   |      | <0.540        | µg/L  | 1  |
| o-Xylene     |      | <0.260        | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 52.0   | µg/L  | 1        | 50.0            | 104                 | 75.3 - 131         |
| Toluene-d8                   |      | 48.8   | µg/L  | 1        | 50.0            | 98                  | 91.4 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 49.8   | µg/L  | 1        | 50.0            | 100                 | 83.8 - 108         |

**Method Blank (1)**      QC Batch: 60930

QC Batch: 60930  
Prep Batch: 51975

Date Analyzed: 2009-06-26  
QC Preparation: 2009-06-26

Analyzed By: KB  
Prepared By: KB

Report Date: June 29, 2009  
Westgate

Work Order: 9062530  
Westgate

Page Number: 6 of 9  
Hobbs, NM

| Parameter    | Flag | MDL<br>Result | Units | RL |
|--------------|------|---------------|-------|----|
| Benzene      |      | <0.240        | µg/L  | 1  |
| Toluene      |      | <0.270        | µg/L  | 1  |
| Ethylbenzene |      | <0.260        | µg/L  | 1  |
| m,p-Xylene   |      | <0.540        | µg/L  | 1  |
| o-Xylene     |      | <0.260        | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 53.6   | µg/L  | 1        | 50.0            | 107                 | 75.3 - 131         |
| Toluene-d8                   |      | 48.4   | µg/L  | 1        | 50.0            | 97                  | 91.4 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 49.8   | µg/L  | 1        | 50.0            | 100                 | 83.8 - 108         |

#### Laboratory Control Spike (LCS-1)

QC Batch: 60865  
Prep Batch: 51920

Date Analyzed: 2009-06-25  
QC Preparation: 2009-06-25

Analyzed By: KB  
Prepared By: KB

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 48.4          | µg/L  | 1    | 50.0            | <0.240           | 97   | 86.6 - 116    |
| Toluene      | 46.5          | µg/L  | 1    | 50.0            | <0.270           | 93   | 86.6 - 117    |
| Ethylbenzene | 50.2          | µg/L  | 1    | 50.0            | <0.260           | 100  | 88.4 - 115    |
| m,p-Xylene   | 101           | µg/L  | 1    | 100             | <0.540           | 101  | 86.7 - 116    |
| o-Xylene     | 52.0          | µg/L  | 1    | 50.0            | <0.260           | 104  | 86.4 - 120    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 52.8           | µg/L  | 1    | 50.0            | <0.240           | 106  | 86.6 - 116    | 9   | 20           |
| Toluene      | 51.0           | µg/L  | 1    | 50.0            | <0.270           | 102  | 86.6 - 117    | 9   | 20           |
| Ethylbenzene | 54.7           | µg/L  | 1    | 50.0            | <0.260           | 109  | 88.4 - 115    | 9   | 20           |
| m,p-Xylene   | 110            | µg/L  | 1    | 100             | <0.540           | 110  | 86.7 - 116    | 8   | 20           |
| o-Xylene     | 56.6           | µg/L  | 1    | 50.0            | <0.260           | 113  | 86.4 - 120    | 8   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Dibromofluoromethane         | 49.4          | 49.8           | µg/L  | 1    | 50.0            | 99          | 100          | 77.3 - 126    |
| Toluene-d8                   | 49.4          | 49.3           | µg/L  | 1    | 50.0            | 99          | 99           | 91.9 - 108    |
| 4-Bromofluorobenzene (4-BFB) | 52.3          | 52.8           | µg/L  | 1    | 50.0            | 105         | 106          | 93 - 107      |

Report Date: June 29, 2009  
Westgate

Work Order: 9062530  
Westgate

Page Number: 7 of 9  
Hobbs, NM

### Laboratory Control Spike (LCS-1)

QC Batch: 60930  
Prep Batch: 51975

Date Analyzed: 2009-06-26  
QC Preparation: 2009-06-26

Analyzed By: KB  
Prepared By: KB

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|------------|-------|------|--------------|---------------|------|------------|
| Benzene      | 51.8       | µg/L  | 1    | 50.0         | <0.240        | 104  | 86.6 - 116 |
| Toluene      | 50.0       | µg/L  | 1    | 50.0         | <0.270        | 100  | 86.6 - 117 |
| Ethylbenzene | 53.7       | µg/L  | 1    | 50.0         | <0.260        | 107  | 88.4 - 115 |
| m,p-Xylene   | 109        | µg/L  | 1    | 100          | <0.540        | 109  | 86.7 - 116 |
| o-Xylene     | 55.4       | µg/L  | 1    | 50.0         | <0.260        | 111  | 86.4 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene      | 48.3        | µg/L  | 1    | 50.0         | <0.240        | 97   | 86.6 - 116 | 7   | 20        |
| Toluene      | 46.6        | µg/L  | 1    | 50.0         | <0.270        | 93   | 86.6 - 117 | 7   | 20        |
| Ethylbenzene | 49.3        | µg/L  | 1    | 50.0         | <0.260        | 99   | 88.4 - 115 | 8   | 20        |
| m,p-Xylene   | 99.6        | µg/L  | 1    | 100          | <0.540        | 100  | 86.7 - 116 | 9   | 20        |
| o-Xylene     | 51.1        | µg/L  | 1    | 50.0         | <0.260        | 102  | 86.4 - 120 | 8   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Dibromofluoromethane         | 51.4       | 50.4        | µg/L  | 1    | 50.0         | 103      | 101       | 77.3 - 126 |
| Toluene-d8                   | 49.6       | 49.7        | µg/L  | 1    | 50.0         | 99       | 99        | 91.9 - 108 |
| 4-Bromofluorobenzene (4-BFB) | 52.5       | 52.8        | µg/L  | 1    | 50.0         | 105      | 106       | 93 - 107   |

### Matrix Spike (xMS-1) Spiked Sample:

QC Batch: 60865  
Prep Batch: 51920

Date Analyzed: 2009-06-25  
QC Preparation: 2009-06-25

Analyzed By: KB  
Prepared By: KB

| Param        | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|-----------|-------|------|--------------|---------------|------|------------|
| Benzene      | 56.1      | µg/L  | 1    | 50.0         | 1.69          | 109  | 59.1 - 151 |
| Toluene      | 52.0      | µg/L  | 1    | 50.0         | <0.270        | 104  | 61.7 - 143 |
| Ethylbenzene | 59.7      | µg/L  | 1    | 50.0         | 4.29          | 111  | 59.2 - 144 |
| m,p-Xylene   | 111       | µg/L  | 1    | 100          | <0.540        | 111  | 59.6 - 144 |
| o-Xylene     | 57.6      | µg/L  | 1    | 50.0         | 0.48          | 114  | 59.9 - 151 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

*continued ...*

Report Date: June 29, 2009  
Westgate

Work Order: 9062530  
Westgate

Page Number: 8 of 9  
Hobbs, NM

matrix spikes continued ...

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
| Benzene      | 60.1          | µg/L  | 1    | 50.0            | 1.69             | 117  | 59.1 - 151    | 7   | 20           |
| Toluene      | 55.8          | µg/L  | 1    | 50.0            | <0.270           | 112  | 61.7 - 143    | 7   | 20           |
| Ethylbenzene | 64.1          | µg/L  | 1    | 50.0            | 4.29             | 120  | 59.2 - 144    | 7   | 20           |
| m,p-Xylene   | 118           | µg/L  | 1    | 100             | <0.540           | 118  | 59.6 - 144    | 6   | 20           |
| o-Xylene     | 61.8          | µg/L  | 1    | 50.0            | 0.48             | 123  | 59.9 - 151    | 7   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 51.3         | 50.4          | µg/L  | 1    | 50              | 103        | 101         | 82.8 - 123    |
| Toluene-d8                   | 49.4         | 48.8          | µg/L  | 1    | 50              | 99         | 98          | 92.3 - 106    |
| 4-Bromofluorobenzene (4-BFB) | 52.0         | 51.6          | µg/L  | 1    | 50              | 104        | 103         | 93.2 - 108    |

Matrix Spike (xMS-1) Spiked Sample:

QC Batch: 60930  
Prep Batch: 51975

Date Analyzed: 2009-06-26  
QC Preparation: 2009-06-26

Analyzed By: KB  
Prepared By: KB

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 55.7         | µg/L  | 1    | 50.0            | 2.21             | 107  | 59.1 - 151    |
| Toluene      | 51.0         | µg/L  | 1    | 50.0            | <0.270           | 102  | 61.7 - 143    |
| Ethylbenzene | 53.8         | µg/L  | 1    | 50.0            | <0.260           | 108  | 59.2 - 144    |
| m,p-Xylene   | 108          | µg/L  | 1    | 100             | <0.540           | 108  | 59.6 - 144    |
| o-Xylene     | 56.4         | µg/L  | 1    | 50.0            | <0.260           | 113  | 59.9 - 151    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 56.2          | µg/L  | 1    | 50.0            | 2.21             | 108  | 59.1 - 151    | 1   | 20           |
| Toluene      | 51.0          | µg/L  | 1    | 50.0            | <0.270           | 102  | 61.7 - 143    | 0   | 20           |
| Ethylbenzene | 54.5          | µg/L  | 1    | 50.0            | <0.260           | 109  | 59.2 - 144    | 1   | 20           |
| m,p-Xylene   | 110           | µg/L  | 1    | 100             | <0.540           | 110  | 59.6 - 144    | 2   | 20           |
| o-Xylene     | 56.2          | µg/L  | 1    | 50.0            | <0.260           | 112  | 59.9 - 151    | 0   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|----------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane | 51.8         | 51.6          | µg/L  | 1    | 50              | 104        | 103         | 82.8 - 123    |
| Toluene-d8           | 49.3         | 49.3          | µg/L  | 1    | 50              | 99         | 99          | 92.3 - 106    |

continued ...

Report Date: June 29, 2009  
Westgate

Work Order: 9062530  
Westgate

Page Number: 9 of 9  
Hobbs, NM

*matrix spikes continued ...*

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| 4-Bromofluorobenzene (4-BFB) | 52.2         | 52.7          | µg/L  | 1    | 50              | 104        | 105         | 93.2 - 108    |

**Standard (CCV-2)**

QC Batch: 60865

Date Analyzed: 2009-06-25

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | µg/L  | 50.0                  | 53.6                   | 107                         | 80 - 120                      | 2009-06-25       |
| Toluene      |      | µg/L  | 50.0                  | 51.8                   | 104                         | 80 - 120                      | 2009-06-25       |
| Ethylbenzene |      | µg/L  | 50.0                  | 55.2                   | 110                         | 80 - 120                      | 2009-06-25       |
| m,p-Xylene   |      | µg/L  | 100                   | 111                    | 111                         | 80 - 120                      | 2009-06-25       |
| o-Xylene     |      | µg/L  | 50.0                  | 57.4                   | 115                         | 80 - 120                      | 2009-06-25       |

**Standard (CCV-1)**

QC Batch: 60930

Date Analyzed: 2009-06-26

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | µg/L  | 50.0                  | 49.4                   | 99                          | 80 - 120                      | 2009-06-26       |
| Toluene      |      | µg/L  | 50.0                  | 46.1                   | 92                          | 80 - 120                      | 2009-06-26       |
| Ethylbenzene |      | µg/L  | 50.0                  | 49.4                   | 99                          | 80 - 120                      | 2009-06-26       |
| m,p-Xylene   |      | µg/L  | 100                   | 99.8                   | 100                         | 80 - 120                      | 2009-06-26       |
| o-Xylene     |      | µg/L  | 50.0                  | 51.8                   | 104                         | 80 - 120                      | 2009-06-26       |

# TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313

200 East Sunset Rd., Suite E  
El Paso, Texas 79822  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 586-3443

8808 Camp Bowie Blvd. West, Suite 180  
Ft. Worth, Texas 76116  
Tel (817) 201-5260  
Fax (817) 560-4336

Company Name: BBC International Phone #: (575) 397 6388  
Address: 1324 W. Midland Hbbs NM Fax #: (575) 397 0397  
Contact Person: Call Brunson E-mail:

Invoice to:  
(if different from above)  
Project #:

Project Name: WESTGATE  
Project Location (including state): Hbbs NM  
Sampler Signature: [Signature]

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     |      | SAMPLING |         |      |
|-------------------------|------------|--------------|-----------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|------|----------|---------|------|
|                         |            |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE | DATE     | TIME    |      |
| 20257                   | NW # 10    | 1            | 500             | ✓      |      |     |        |                     |                  |                                |      |     | ✓    |          | 6/23/09 | 3:59 |
|                         |            | 3            | 500             | ✓      |      |     |        | ✓                   |                  |                                |      |     | ✓    |          | 6/23/09 | 3:59 |
| 258                     | NW # 8     | 1            | 500             | ✓      |      |     |        |                     |                  |                                |      |     | ✓    |          | 6/23/09 | 3:15 |
|                         |            | 3            | 500             | ✓      |      |     |        | ✓                   |                  |                                |      |     | ✓    |          | 6/23/09 | 3:15 |
| 259                     | NW # 9     | 1            | 500             | ✓      |      |     |        |                     |                  |                                |      |     | ✓    |          | 6/23/09 | 3:38 |
|                         |            | 3            | 500             | ✓      |      |     |        |                     |                  |                                |      |     | ✓    |          | 6/23/09 | 3:38 |

| Relinquished by:   | Company:   | Date:          | Time:        | Received by: | Company: | Date: | Time: | INST | OBS | COR |
|--------------------|------------|----------------|--------------|--------------|----------|-------|-------|------|-----|-----|
| <u>[Signature]</u> | <u>BBC</u> | <u>6/24/09</u> | <u>10:00</u> |              |          |       |       |      |     |     |
| Relinquished by:   | Company:   | Date:          | Time:        | Received by: | Company: | Date: | Time: | INST | OBS | COR |
|                    |            |                |              |              |          |       |       |      |     |     |
| Relinquished by:   | Company:   | Date:          | Time:        | Received by: | Company: | Date: | Time: | INST | OBS | COR |
|                    |            |                |              |              |          |       |       |      |     |     |

## ANALYSIS REQUEST (Circle or Specify Method No.)

|                                                 |   |
|-------------------------------------------------|---|
| MTBE 8021 / 602 / 8260 / 624                    | ✓ |
| BTEX 8021 / 602 / 8260 / 624                    | ✓ |
| TPH 418.1 / TX1005 / TX1005 EX(C35)             | ✓ |
| TPH 8015 GRO / DRO / TVHC                       | ✓ |
| PAH 8270 / 625                                  | ✓ |
| Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7 | ✓ |
| TCLP Metals Ag As Ba Cd Cr Pb Se Hg             | ✓ |
| TCLP Volatiles                                  | ✓ |
| TCLP Semi Volatiles                             | ✓ |
| TCLP Pesticides                                 | ✓ |
| RCI                                             | ✓ |
| GC/MS Vol. 8260 / 624                           | ✓ |
| GC/MS Semi. Vol. 8270 / 625                     | ✓ |
| PCBs 8082 / 608                                 | ✓ |
| Pesticides 8081 / 608                           | ✓ |
| BOD, TSS, pH                                    | ✓ |
| Moisture Content                                | ✓ |
| Turn Around Time if different from standard     | ✓ |

REMARKS:

LAB USE ONLY

Inst. Y. N. Y

Headspace Y. N. N

Log-in-Review Y

Dry Weight Basis Required Y

TRRP Report Required Y

Check if Special Reporting Limits Are Needed Y

## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: October 5, 2009

Work Order: 9100214



CL: A7260160  
Network#: 30039303 0010 0020  
P.O.: LAU4900000933  
Project Location: Hobbs, NM  
Project Name: Shell Westgate

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 211382 | MW #10      | water  | 2009-09-26 | 10:49      | 2009-10-02    |
| 211383 | MW #8       | water  | 2009-09-26 | 12:12      | 2009-10-02    |

### Sample: 211382 - MW #10

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

### Sample: 211383 - MW #8

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |





6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBENC: 237019

HUB: 1752439743100-86536  
NCTRCA WFWB38444Y0909

DBE: VN 20657

## NELAP Certifications

Lubbock: T104704219-08-TX  
LELAP-02003  
Kansas E-10317

El Paso: T104704221-08-TX  
LELAP-02002

Midland: T104704392-08-TX

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: October 5, 2009

Work Order: 9100214



CL: A7260160  
Network#: 30039303 0010 0020  
P.O.: LAU4900000933  
Project Location: Hobbs, NM  
Project Name: Shell Westgate  
Project Number: Shell Westgate

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 211382 | MW #10      | water  | 2009-09-26 | 10:49      | 2009-10-02    |
| 211383 | MW #8       | water  | 2009-09-26 | 12:12      | 2009-10-02    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 7 pages and shall not be reproduced except in its entirety, without written approval of

TraceAnalysis, Inc.

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive style with a large, stylized 'M' and 'A'.

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

**Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Shell Westgate were received by TraceAnalysis, Inc. on 2009-10-02 and assigned to work order 9100214. Samples for work order 9100214 were received intact without headspace and at a temperature of 5.4 deg c.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method  | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|-----------|---------|---------------|---------------------|-------------|---------------------|
| Volatiles | S 8260B | 54774         | 2009-10-02 at 12:00 | 64145       | 2009-10-02 at 12:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9100214 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: October 5, 2009  
Shell Westgate

Work Order: 9100214  
Shell Westgate

Page Number: 4 of 7  
Hobbs, NM

## Analytical Report

Sample: 211382 - MW #10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 64145  
Prep Batch: 54774

Analytical Method: S 8260B  
Date Analyzed: 2009-10-02  
Sample Preparation: 2009-10-02

Prep Method: S 5030B  
Analyzed By: JG  
Prepared By: JG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 52.1   | µg/L  | 1        | 50.0            | 104                 | 70 - 130           |
| Toluene-d8                   |      | 47.9   | µg/L  | 1        | 50.0            | 96                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 47.7   | µg/L  | 1        | 50.0            | 95                  | 70 - 130           |

Sample: 211383 - MW #8

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 64145  
Prep Batch: 54774

Analytical Method: S 8260B  
Date Analyzed: 2009-10-02  
Sample Preparation: 2009-10-02

Prep Method: S 5030B  
Analyzed By: JG  
Prepared By: JG

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 50.7   | µg/L  | 1        | 50.0            | 101                 | 70 - 130           |
| Toluene-d8                   |      | 48.9   | µg/L  | 1        | 50.0            | 98                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 48.7   | µg/L  | 1        | 50.0            | 97                  | 70 - 130           |

Report Date: October 5, 2009  
Shell Westgate

Work Order: 9100214  
Shell Westgate

Page Number: 5 of 7  
Hobbs, NM

**Method Blank (1)**      QC Batch: 64145

QC Batch: 64145  
Prep Batch: 54774

Date Analyzed: 2009-10-02  
QC Preparation: 2009-10-02

Analyzed By: JG  
Prepared By: JG

| Parameter    | Flag | MDL<br>Result | Units | RL |
|--------------|------|---------------|-------|----|
| Benzene      |      | <0.113        | µg/L  | 1  |
| Toluene      |      | <0.117        | µg/L  | 1  |
| Ethylbenzene |      | <0.174        | µg/L  | 1  |
| m,p-Xylene   |      | <0.220        | µg/L  | 1  |
| o-Xylene     |      | <0.115        | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 50.2   | µg/L  | 1        | 50.0            | 100                 | 70 - 130           |
| Toluene-d8                   |      | 48.4   | µg/L  | 1        | 50.0            | 97                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 50.2   | µg/L  | 1        | 50.0            | 100                 | 70 - 130           |

**Laboratory Control Spike (LCS-1)**

QC Batch: 64145  
Prep Batch: 54774

Date Analyzed: 2009-10-02  
QC Preparation: 2009-10-02

Analyzed By: JG  
Prepared By: JG

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 50.9          | µg/L  | 1    | 50.0            | <0.113           | 102  | 70 - 130      |
| Toluene      | 47.5          | µg/L  | 1    | 50.0            | <0.117           | 95   | 70 - 130      |
| Ethylbenzene | 45.2          | µg/L  | 1    | 50.0            | <0.174           | 90   | 70 - 130      |
| m,p-Xylene   | 93.6          | µg/L  | 1    | 100             | <0.220           | 94   | 70 - 130      |
| o-Xylene     | 46.5          | µg/L  | 1    | 50.0            | <0.115           | 93   | 70 - 130      |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 51.5           | µg/L  | 1    | 50.0            | <0.113           | 103  | 70 - 130      | 1   | 20           |
| Toluene      | 48.0           | µg/L  | 1    | 50.0            | <0.117           | 96   | 70 - 130      | 1   | 20           |
| Ethylbenzene | 45.4           | µg/L  | 1    | 50.0            | <0.174           | 91   | 70 - 130      | 0   | 20           |
| m,p-Xylene   | 96.6           | µg/L  | 1    | 100             | <0.220           | 97   | 70 - 130      | 3   | 20           |
| o-Xylene     | 46.6           | µg/L  | 1    | 50.0            | <0.115           | 93   | 70 - 130      | 0   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|----------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Dibromofluoromethane | 51.3          | 50.3           | µg/L  | 1    | 50.0            | 103         | 101          | 70 - 130      |

*continued ...*

Report Date: October 5, 2009  
Shell Westgate

Work Order: 9100214  
Shell Westgate

Page Number: 6 of 7  
Hobbs, NM

control spikes continued ...

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Toluene-d8                   | 48.6          | 49.2           | µg/L  | 1    | 50.0            | 97          | 98           | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 49.8          | 50.3           | µg/L  | 1    | 50.0            | 100         | 101          | 70 - 130      |

Matrix Spike (MS-1) Spiked Sample: 211362

QC Batch: 64145  
Prep Batch: 54774

Date Analyzed: 2009-10-02  
QC Preparation: 2009-10-02

Analyzed By: JG  
Prepared By: JG

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 50.6         | µg/L  | 1    | 50.0            | <0.113           | 101  | 70 - 130      |
| Toluene      | 48.2         | µg/L  | 1    | 50.0            | <0.117           | 96   | 70 - 130      |
| Ethylbenzene | 45.3         | µg/L  | 1    | 50.0            | <0.174           | 91   | 70 - 130      |
| m,p-Xylene   | 94.6         | µg/L  | 1    | 100             | <0.220           | 95   | 70 - 130      |
| o-Xylene     | 50.4         | µg/L  | 1    | 50.0            | <0.115           | 101  | 70 - 130      |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 48.6          | µg/L  | 1    | 50.0            | <0.113           | 97   | 70 - 130      | 4   | 20           |
| Toluene      | 45.1          | µg/L  | 1    | 50.0            | <0.117           | 90   | 70 - 130      | 7   | 20           |
| Ethylbenzene | 40.7          | µg/L  | 1    | 50.0            | <0.174           | 81   | 70 - 130      | 11  | 20           |
| m,p-Xylene   | 88.7          | µg/L  | 1    | 100             | <0.220           | 89   | 70 - 130      | 6   | 20           |
| o-Xylene     | 48.4          | µg/L  | 1    | 50.0            | <0.115           | 97   | 70 - 130      | 4   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 49.9         | 50.2          | µg/L  | 1    | 50              | 100        | 100         | 70 - 130      |
| Toluene-d8                   | 49.8         | 49.0          | µg/L  | 1    | 50              | 100        | 98          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 48.9         | 50.0          | µg/L  | 1    | 50              | 98         | 100         | 70 - 130      |

Standard (CCV-2)

QC Batch: 64145

Date Analyzed: 2009-10-02

Analyzed By: JG

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | µg/L  | 50.0                  | 48.8                   | 98                          | 80 - 120                      | 2009-10-02       |
| Toluene      |      | µg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2009-10-02       |
| Ethylbenzene |      | µg/L  | 50.0                  | 42.2                   | 84                          | 80 - 120                      | 2009-10-02       |

continued ...

Report Date: October 5, 2009  
Shell Westgate

Work Order: 9100214  
Shell Westgate

Page Number: 7 of 7  
Hobbs, NM

*standard continued ...*

| Param      | Flag | Units           | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------|------|-----------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| m,p-Xylene |      | $\mu\text{g/L}$ | 100                   | 91.0                   | 91                          | 80 - 120                      | 2009-10-02       |
| o-Xylene   |      | $\mu\text{g/L}$ | 50.0                  | 43.8                   | 88                          | 80 - 120                      | 2009-10-02       |

# TraceAnalysis, Inc.

email: [lab@traceanalysis.com](mailto:lab@traceanalysis.com)

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

6015 Harris Pkwy., Suite 110  
Ft. Worth, Texas 76132  
Tel (817) 201-5260

Company Name: BAC International Phone #: (575) 397-6388  
 Address: (Street, City, Zip) Fax #: (575) 397-0397  
1324 W. Marland E-mail: (575) 397-0397  
 Contact Person: C. Brownson C. Brownson @ BAC International - com  
 Invoice to: (same) Project Name: Mell Westgate  
 (If different from above)  
 Project #: \_\_\_\_\_ Sampler Signature: [Signature]  
 Project Location (including state): Holbrook, NM

[illegible]

|                    |         |       |                            |         |         |
|--------------------|---------|-------|----------------------------|---------|---------|
| Relinquished by:   | Date:   | Time: | Received by:               | Date:   | Time:   |
| <i>[Signature]</i> | 9-20-09 | 10:30 |                            |         |         |
| Relinquished by:   | Date:   | Time: | Received by:               | Date:   | Time:   |
|                    |         |       |                            |         |         |
| Relinquished by:   | Date:   | Time: | Received at Laboratory by: | Date:   | Time:   |
|                    |         |       | <i>[Signature]</i>         | 10-2-09 | 8:40 am |

**ANALYSIS REQUEST**  
**(Circle or Specify Method No.)**

|  |                     |                                     |   |   |  |
|--|---------------------|-------------------------------------|---|---|--|
|  | MTBE                | 8021B / 602 / 8260B / 624           | X | X |  |
|  | BTEX                | 8021B / 602 / 8260B / 624           |   |   |  |
|  | TPH                 | 418.1 / TX1005 / TX1005 Ex(C35)     |   |   |  |
|  | TPH                 | 8015 GRO / DRO / TVHC               |   |   |  |
|  | PAH                 | 8270C / 625                         |   |   |  |
|  | Total Metals        | Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 |   |   |  |
|  | TCLP Metals         | Ag As Ba Cd Cr Pb Se Hg             |   |   |  |
|  | TCLP Volatiles      |                                     |   |   |  |
|  | TCLP Semi Volatiles |                                     |   |   |  |
|  | TCLP Pesticides     |                                     |   |   |  |
|  | RCI                 |                                     |   |   |  |
|  | GC/MS Vol.          | 8260B / 624                         |   |   |  |
|  | GC/MS Semi.         | Vol. 8270C / 625                    |   |   |  |
|  | PCBs                | 8082 / 608                          |   |   |  |
|  | Pesticides          | 8081A / 608                         |   |   |  |
|  | BOD, TSS, pH        |                                     |   |   |  |
|  | Moisture Content    |                                     |   |   |  |
|  | Turn Around Time    | If different from standard          |   |   |  |
|  | Hold                |                                     |   |   |  |

REMARKS:

LAB USE ONLY

Intact ☒ Y ☐ N

Headspace ☐ Y ☒ N

Temp 50 | 54 IP °

Log-in/Review MA

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # Fed 7979 8231 25600



## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: December 24, 2009

Work Order: 9121714



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 217524 | MW-10       | water  | 2009-12-15 | 10:20      | 2009-12-17    |
| 217525 | MW-9        | water  | 2009-12-15 | 11:05      | 2009-12-17    |
| 217526 | MW-8        | water  | 2009-12-15 | 12:15      | 2009-12-17    |
| 217527 | MW-4        | water  | 2009-12-15 | 13:40      | 2009-12-17    |
| 217528 | MW-6        | water  | 2009-12-15 | 14:50      | 2009-12-17    |
| 217529 | MW-11       | water  | 2009-12-15 | 15:20      | 2009-12-17    |
| 217530 | MW-5        | water  | 2009-12-15 | 16:18      | 2009-12-17    |

### Sample: 217524 - MW-10

| Param               | Flag | Result    | Units | RL       |
|---------------------|------|-----------|-------|----------|
| Naphthalene         |      | <0.000184 | mg/L  | 0.000200 |
| 2-Methylnaphthalene |      | <0.000184 | mg/L  | 0.000200 |
| 1-Methylnaphthalene |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthylene      |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthene        |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzofuran        |      | <0.000184 | mg/L  | 0.000200 |
| Fluorene            |      | <0.000184 | mg/L  | 0.000200 |
| Anthracene          |      | <0.000184 | mg/L  | 0.000200 |
| Phenanthrene        |      | <0.000184 | mg/L  | 0.000200 |
| Fluoranthene        |      | <0.000184 | mg/L  | 0.000200 |
| Pyrene              |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)anthracene  |      | <0.000184 | mg/L  | 0.000200 |
| Chrysene            |      | <0.000184 | mg/L  | 0.000200 |

*continued ...*

*sample 217524 continued ...*

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Benzo(b)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzene                |      | <1.00     | µg/L  | 1.00     |
| Toluene                |      | <1.00     | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00     | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00     | µg/L  | 1.00     |
| o-Xylene               |      | <1.00     | µg/L  | 1.00     |

**Sample: 217525 - MW-9**

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Naphthalene            |      | <0.000184 | mg/L  | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthylene         |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthene           |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzofuran           |      | <0.000184 | mg/L  | 0.000200 |
| Fluorene               |      | <0.000184 | mg/L  | 0.000200 |
| Anthracene             |      | <0.000184 | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000184 | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000184 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzene                |      | <1.00     | µg/L  | 1.00     |
| Toluene                |      | <1.00     | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00     | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00     | µg/L  | 1.00     |
| o-Xylene               |      | <1.00     | µg/L  | 1.00     |

**Sample: 217526 - MW-8**

| Param       | Flag | Result    | Units | RL       |
|-------------|------|-----------|-------|----------|
| Naphthalene |      | <0.000184 | mg/L  | 0.000200 |

*continued ...*

*sample 217526 continued ...*

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| 2-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthylene         |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthene           |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzofuran           |      | <0.000184 | mg/L  | 0.000200 |
| Fluorene               |      | <0.000184 | mg/L  | 0.000200 |
| Anthracene             |      | <0.000184 | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000184 | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000184 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzene                |      | <1.00     | µg/L  | 1.00     |
| Toluene                |      | <1.00     | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00     | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00     | µg/L  | 1.00     |
| o-Xylene               |      | <1.00     | µg/L  | 1.00     |

**Sample: 217527 - MW-4**

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Naphthalene            |      | <0.000184 | mg/L  | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthylene         |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthene           |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzofuran           |      | <0.000184 | mg/L  | 0.000200 |
| Fluorene               |      | <0.000184 | mg/L  | 0.000200 |
| Anthracene             |      | <0.000184 | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000184 | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000184 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184 | mg/L  | 0.000200 |

*continued ...*

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296

*This is only a summary. Please, refer to the complete report package for quality control data.*

*sample 217527 continued ...*

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

**Sample: 217528 - MW-6**

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Naphthalene            |      | <0.000184 | mg/L  | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthylene         |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthene           |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzofuran           |      | <0.000184 | mg/L  | 0.000200 |
| Fluorene               |      | <0.000184 | mg/L  | 0.000200 |
| Anthracene             |      | <0.000184 | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000184 | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000184 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzene                |      | <1.00     | µg/L  | 1.00     |
| Toluene                |      | <1.00     | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00     | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00     | µg/L  | 1.00     |
| o-Xylene               |      | <1.00     | µg/L  | 1.00     |

**Sample: 217529 - MW-11**

| Param               | Flag | Result    | Units | RL       |
|---------------------|------|-----------|-------|----------|
| Naphthalene         |      | <0.000184 | mg/L  | 0.000200 |
| 2-Methylnaphthalene |      | <0.000184 | mg/L  | 0.000200 |
| 1-Methylnaphthalene |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthylene      |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthene        |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzofuran        |      | <0.000184 | mg/L  | 0.000200 |
| Fluorene            |      | <0.000184 | mg/L  | 0.000200 |

*continued ...*

*sample 217529 continued ...*

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Anthracene             |      | <0.000184 | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000184 | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000184 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzene                |      | <1.00     | µg/L  | 1.00     |
| Toluene                |      | <1.00     | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00     | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00     | µg/L  | 1.00     |
| o-Xylene               |      | <1.00     | µg/L  | 1.00     |

**Sample: 217530 - MW-5**

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Naphthalene            |      | <0.000184 | mg/L  | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthylene         |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthene           |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzofuran           |      | <0.000184 | mg/L  | 0.000200 |
| Fluorene               |      | <0.000184 | mg/L  | 0.000200 |
| Anthracene             |      | <0.000184 | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000184 | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000184 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzene                |      | <1.00     | µg/L  | 1.00     |
| Toluene                |      | <1.00     | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00     | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00     | µg/L  | 1.00     |
| o-Xylene               |      | <1.00     | µg/L  | 1.00     |



6701 Aberdeen Avenue, Suite 9    Lubbock, Texas 79424    800•378•1296    806•794•1296    FAX 806•794•1298  
200 East Sunset Road, Suite E    El Paso, Texas 79922    888•588•3443    915•585•3443    FAX 915•585•4944  
5002 Basin Street, Suite A1    Midland, Texas 79703    432•689•6301    FAX 432•689•6313  
6015 Harris Parkway, Suite 110    Ft. Worth, Texas 76132    817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBENC: 237019

HUB: 1752439743100-86536  
NCTRCA WFWB38444Y0909

DBE: VN 20657

## NELAP Certifications

Lubbock: T104704219-08-TX  
LELAP-02003  
Kansas E-10317

El Paso: T104704221-08-TX  
LELAP-02002

Midland: T104704392-08-TX

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: December 24, 2009

Work Order: 9121714



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 217524 | MW-10       | water  | 2009-12-15 | 10:20      | 2009-12-17    |
| 217525 | MW-9        | water  | 2009-12-15 | 11:05      | 2009-12-17    |
| 217526 | MW-8        | water  | 2009-12-15 | 12:15      | 2009-12-17    |
| 217527 | MW-4        | water  | 2009-12-15 | 13:40      | 2009-12-17    |
| 217528 | MW-6        | water  | 2009-12-15 | 14:50      | 2009-12-17    |
| 217529 | MW-11       | water  | 2009-12-15 | 15:20      | 2009-12-17    |
| 217530 | MW-5        | water  | 2009-12-15 | 16:18      | 2009-12-17    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive, flowing style.

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

#### Standard Flags

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Westgate were received by TraceAnalysis, Inc. on 2009-12-17 and assigned to work order 9121714. Samples for work order 9121714 were received intact without headspace and at a temperature of 4.1 deg. C.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method  | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|-----------|---------|---------------|---------------------|-------------|---------------------|
| PAH       | S 8270C | 56636         | 2009-12-18 at 15:00 | 66267       | 2009-12-24 at 10:47 |
| Volatiles | S 8260B | 56579         | 2009-12-21 at 12:00 | 66193       | 2009-12-21 at 12:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9121714 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.



## Analytical Report

### Sample: 217524 - MW-10

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 66267  
Prep Batch: 56636

Analytical Method: S 8270C  
Date Analyzed: 2009-12-24  
Sample Preparation: 2009-12-18

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Naphthalene            |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthylene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzofuran           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluorene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Anthracene             |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Phenanthrene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluoranthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Pyrene                 |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Chrysene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0586 | mg/L  | 0.922    | 0.0800          | 73                  | 25.9 - 97.5        |
| 2-Fluorobiphenyl |      | 0.0523 | mg/L  | 0.922    | 0.0800          | 65                  | 13.9 - 100         |
| Terphenyl-d14    |      | 0.0698 | mg/L  | 0.922    | 0.0800          | 87                  | 37.7 - 114         |

### Sample: 217524 - MW-10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 66193  
Prep Batch: 56579

Analytical Method: S 8260B  
Date Analyzed: 2009-12-21  
Sample Preparation: 2009-12-21

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

*continued ...*

Report Date: December 24, 2009  
Westgate

Work Order: 9121714  
Westgate

Page Number: 5 of 19  
Hobbs, NM

sample 217524 continued ...

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 50.2   | µg/L  | 1        | 50.0            | 100                 | 81.3 - 123         |
| Toluene-d8                   |      | 51.8   | µg/L  | 1        | 50.0            | 104                 | 87.3 - 110         |
| 4-Bromofluorobenzene (4-BFB) |      | 52.9   | µg/L  | 1        | 50.0            | 106                 | 86.3 - 115         |

**Sample: 217525 - MW-9**

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 66267  
Prep Batch: 56636

Analytical Method: S 8270C  
Date Analyzed: 2009-12-24  
Sample Preparation: 2009-12-18

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Naphthalene            |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthylene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzofuran           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluorene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Anthracene             |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Phenanthrene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluoranthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Pyrene                 |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Chrysene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

continued ...

Report Date: December 24, 2009  
Westgate

Work Order: 9121714  
Westgate

Page Number: 6 of 19  
Hobbs, NM

sample 217525 continued ...

| Parameter            | Flag | RL<br>Result | Units | Dilution | RL       |
|----------------------|------|--------------|-------|----------|----------|
| Benzo(g,h,i)perylene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

| Surrogate        | Flag | Result  | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|---------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  | 1    | 0.00960 | mg/L  | 0.922    | 0.0800          | 12                  | 25.9 - 97.5        |
| 2-Fluorobiphenyl |      | 0.0148  | mg/L  | 0.922    | 0.0800          | 18                  | 13.9 - 100         |
| Terphenyl-d14    |      | 0.0465  | mg/L  | 0.922    | 0.0800          | 58                  | 37.7 - 114         |

**Sample: 217525 - MW-9**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 66193  
Prep Batch: 56579

Analytical Method: S 8260B  
Date Analyzed: 2009-12-21  
Sample Preparation: 2009-12-21

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 50.3   | µg/L  | 1        | 50.0            | 101                 | 81.3 - 123         |
| Toluene-d8                   |      | 52.8   | µg/L  | 1        | 50.0            | 106                 | 87.3 - 110         |
| 4-Bromofluorobenzene (4-BFB) |      | 56.0   | µg/L  | 1        | 50.0            | 112                 | 86.3 - 115         |

**Sample: 217526 - MW-8**

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 66267  
Prep Batch: 56636

Analytical Method: S 8270C  
Date Analyzed: 2009-12-24  
Sample Preparation: 2009-12-18

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter           | Flag | RL<br>Result | Units | Dilution | RL       |
|---------------------|------|--------------|-------|----------|----------|
| Naphthalene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 2-Methylnaphthalene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 1-Methylnaphthalene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

<sup>1</sup> 8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

Report Date: December 24, 2009  
Westgate

Work Order: 9121714  
Westgate

Page Number: 7 of 19  
Hobbs, NM

sample 217526 continued ...

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Acenaphthylene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzofuran           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluorene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Anthracene             |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Phenanthrene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluoranthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Pyrene                 |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Chrysene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0527 | mg/L  | 0.922    | 0.0800          | 66                  | 25.9 - 97.5        |
| 2-Fluorobiphenyl |      | 0.0467 | mg/L  | 0.922    | 0.0800          | 58                  | 13.9 - 100         |
| Terphenyl-d14    |      | 0.0716 | mg/L  | 0.922    | 0.0800          | 90                  | 37.7 - 114         |

**Sample: 217526 - MW-8**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 66193  
Prep Batch: 56579

Analytical Method: S 8260B  
Date Analyzed: 2009-12-21  
Sample Preparation: 2009-12-21

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate            | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|----------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane |      | 49.0   | µg/L  | 1        | 50.0            | 98                  | 81.3 - 123         |
| Toluene-d8           |      | 50.5   | µg/L  | 1        | 50.0            | 101                 | 87.3 - 110         |

continued ...

Report Date: December 24, 2009  
Westgate

Work Order: 9121714  
Westgate

Page Number: 8 of 19  
Hobbs, NM

sample continued ...

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 4-Bromofluorobenzene (4-BFB) |      | 53.3   | µg/L  | 1        | 50.0         | 107              | 86.3 - 115      |

Sample: 217527 - MW-4

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 66267  
Prep Batch: 56636

Analytical Method: S 8270C  
Date Analyzed: 2009-12-24  
Sample Preparation: 2009-12-18

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Naphthalene            |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthylene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzofuran           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluorene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Anthracene             |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Phenanthrene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluoranthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Pyrene                 |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Chrysene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 0.0559 | mg/L  | 0.922    | 0.0800       | 70               | 25.9 - 97.5     |
| 2-Fluorobiphenyl |      | 0.0553 | mg/L  | 0.922    | 0.0800       | 69               | 13.9 - 100      |
| Terphenyl-d14    |      | 0.0695 | mg/L  | 0.922    | 0.0800       | 87               | 37.7 - 114      |

Report Date: December 24, 2009  
Westgate

Work Order: 9121714  
Westgate

Page Number: 9 of 19  
Hobbs, NM

**Sample: 217527 - MW-4**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 66193  
Prep Batch: 56579

Analytical Method: S 8260B  
Date Analyzed: 2009-12-21  
Sample Preparation: 2009-12-21

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 52.8   | µg/L  | 1        | 50.0            | 106                 | 81.3 - 123         |
| Toluene-d8                   |      | 53.2   | µg/L  | 1        | 50.0            | 106                 | 87.3 - 110         |
| 4-Bromofluorobenzene (4-BFB) |      | 55.6   | µg/L  | 1        | 50.0            | 111                 | 86.3 - 115         |

**Sample: 217528 - MW-6**

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 66267  
Prep Batch: 56636

Analytical Method: S 8270C  
Date Analyzed: 2009-12-24  
Sample Preparation: 2009-12-18

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter            | Flag | RL<br>Result | Units | Dilution | RL       |
|----------------------|------|--------------|-------|----------|----------|
| Naphthalene          |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 2-Methylnaphthalene  |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 1-Methylnaphthalene  |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthylene       |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzofuran         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluorene             |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Anthracene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Phenanthrene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluoranthene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Pyrene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)anthracene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Chrysene             |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(b)fluoranthene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(k)fluoranthene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)pyrene       |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

*continued ...*

sample 217528 continued ...

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Indeno(1,2,3-cd)pyrene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0374 | mg/L  | 0.922    | 0.0800          | 47                  | 25.9 - 97.5        |
| 2-Fluorobiphenyl |      | 0.0385 | mg/L  | 0.922    | 0.0800          | 48                  | 13.9 - 100         |
| Terphenyl-d14    |      | 0.0531 | mg/L  | 0.922    | 0.0800          | 66                  | 37.7 - 114         |

**Sample: 217528 - MW-6**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 66193  
Prep Batch: 56579

Analytical Method: S 8260B  
Date Analyzed: 2009-12-21  
Sample Preparation: 2009-12-21

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 51.0   | µg/L  | 1        | 50.0            | 102                 | 81.3 - 123         |
| Toluene-d8                   |      | 50.6   | µg/L  | 1        | 50.0            | 101                 | 87.3 - 110         |
| 4-Bromofluorobenzene (4-BFB) |      | 55.5   | µg/L  | 1        | 50.0            | 111                 | 86.3 - 115         |

**Sample: 217529 - MW-11**

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 66267  
Prep Batch: 56636

Analytical Method: S 8270C  
Date Analyzed: 2009-12-24  
Sample Preparation: 2009-12-18

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter   | Flag | RL<br>Result | Units | Dilution | RL       |
|-------------|------|--------------|-------|----------|----------|
| Naphthalene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

continued ...

sample 217529 continued ...

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| 2-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthylene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzofuran           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluorene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Anthracene             |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Phenanthrene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluoranthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Pyrene                 |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Chrysene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0555 | mg/L  | 0.922    | 0.0800          | 69                  | 25.9 - 97.5        |
| 2-Fluorobiphenyl |      | 0.0483 | mg/L  | 0.922    | 0.0800          | 60                  | 13.9 - 100         |
| Terphenyl-d14    |      | 0.0679 | mg/L  | 0.922    | 0.0800          | 85                  | 37.7 - 114         |

**Sample: 217529 - MW-11**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 66193  
Prep Batch: 56579

Analytical Method: S 8260B  
Date Analyzed: 2009-12-21  
Sample Preparation: 2009-12-21

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |



Report Date: December 24, 2009  
Westgate

Work Order: 9121714  
Westgate

Page Number: 12 of 19  
Hobbs, NM

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      | 51.8   | µg/L  | 1        | 50.0         | 104              | 81.3 - 123      |
| Toluene-d8                   |      | 51.5   | µg/L  | 1        | 50.0         | 103              | 87.3 - 110      |
| 4-Bromofluorobenzene (4-BFB) |      | 55.2   | µg/L  | 1        | 50.0         | 110              | 86.3 - 115      |

**Sample: 217530 - MW-5**

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 66267  
Prep Batch: 56636

Analytical Method: S 8270C  
Date Analyzed: 2009-12-24  
Sample Preparation: 2009-12-18

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Naphthalene            |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthylene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzofuran           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluorene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Anthracene             |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Phenanthrene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluoranthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Pyrene                 |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Chrysene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 0.0502 | mg/L  | 0.922    | 0.0800       | 63               | 25.9 - 97.5     |
| 2-Fluorobiphenyl |      | 0.0333 | mg/L  | 0.922    | 0.0800       | 42               | 13.9 - 100      |
| Terphenyl-d14    |      | 0.0517 | mg/L  | 0.922    | 0.0800       | 65               | 37.7 - 114      |

Report Date: December 24, 2009  
Westgate

Work Order: 9121714  
Westgate

Page Number: 13 of 19  
Hobbs, NM

**Sample: 217530 - MW-5**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 66193  
Prep Batch: 56579

Analytical Method: S 8260B  
Date Analyzed: 2009-12-21  
Sample Preparation: 2009-12-21

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 51.9   | µg/L  | 1        | 50.0            | 104                 | 81.3 - 123         |
| Toluene-d8                   |      | 50.6   | µg/L  | 1        | 50.0            | 101                 | 87.3 - 110         |
| 4-Bromofluorobenzene (4-BFB) |      | 54.1   | µg/L  | 1        | 50.0            | 108                 | 86.3 - 115         |

**Method Blank (1)**      QC Batch: 66193

QC Batch: 66193  
Prep Batch: 56579

Date Analyzed: 2009-12-21  
QC Preparation: 2009-12-21

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | MDL<br>Result | Units | RL |
|--------------|------|---------------|-------|----|
| MTBE         |      | <0.400        | µg/L  | 1  |
| Benzene      |      | <0.240        | µg/L  | 1  |
| Toluene      |      | <0.270        | µg/L  | 1  |
| Ethylbenzene |      | <0.260        | µg/L  | 1  |
| m,p-Xylene   |      | <0.540        | µg/L  | 1  |
| o-Xylene     |      | <0.260        | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 49.5   | µg/L  | 1        | 50.0            | 99                  | 81.3 - 123         |
| Toluene-d8                   |      | 52.3   | µg/L  | 1        | 50.0            | 105                 | 87.3 - 110         |
| 4-Bromofluorobenzene (4-BFB) |      | 56.2   | µg/L  | 1        | 50.0            | 112                 | 86.3 - 115         |

**Method Blank (1)**      QC Batch: 66267

QC Batch: 66267  
Prep Batch: 56636

Date Analyzed: 2009-12-24  
QC Preparation: 2009-12-18

Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | MDL<br>Result | Units | RL     |
|------------------------|------|---------------|-------|--------|
| Naphthalene            |      | <0.0000784    | mg/L  | 0.0002 |
| 2-Methylnaphthalene    |      | <0.0000747    | mg/L  | 0.0002 |
| 1-Methylnaphthalene    |      | <0.0000575    | mg/L  | 0.0002 |
| Acenaphthylene         |      | <0.0000963    | mg/L  | 0.0002 |
| Acenaphthene           |      | <0.0000617    | mg/L  | 0.0002 |
| Dibenzofuran           |      | <0.0000952    | mg/L  | 0.0002 |
| Fluorene               |      | <0.000134     | mg/L  | 0.0002 |
| Anthracene             |      | <0.000441     | mg/L  | 0.0002 |
| Phenanthrene           |      | <0.000435     | mg/L  | 0.0002 |
| Fluoranthene           |      | <0.000476     | mg/L  | 0.0002 |
| Pyrene                 |      | <0.000590     | mg/L  | 0.0002 |
| Benzo(a)anthracene     |      | <0.000118     | mg/L  | 0.0002 |
| Chrysene               |      | <0.0000766    | mg/L  | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.000146     | mg/L  | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.000141     | mg/L  | 0.0002 |
| Benzo(a)pyrene         |      | <0.000132     | mg/L  | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.0000702    | mg/L  | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.0000534    | mg/L  | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.0000473    | mg/L  | 0.0002 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0419 | mg/L  | 1        | 0.0800          | 52                  | 25.9 - 97.5        |
| 2-Fluorobiphenyl |      | 0.0372 | mg/L  | 1        | 0.0800          | 46                  | 13.9 - 100         |
| Terphenyl-d14    |      | 0.0589 | mg/L  | 1        | 0.0800          | 74                  | 37.7 - 114         |

Laboratory Control Spike (LCS-1)

QC Batch: 66193  
Prep Batch: 56579

Date Analyzed: 2009-12-21  
QC Preparation: 2009-12-21

Analyzed By: KB  
Prepared By: KB

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| MTBE         | 54.8          | µg/L  | 1    | 50.0            | <0.400           | 110  | 78.9 - 121    |
| Benzene      | 52.1          | µg/L  | 1    | 50.0            | <0.240           | 104  | 79.5 - 119    |
| Toluene      | 56.9          | µg/L  | 1    | 50.0            | <0.270           | 114  | 81.4 - 118    |
| Ethylbenzene | 59.2          | µg/L  | 1    | 50.0            | <0.260           | 118  | 79.9 - 118    |
| m,p-Xylene   | 123           | µg/L  | 1    | 100             | <0.540           | 123  | 76.3 - 127    |
| o-Xylene     | 60.0          | µg/L  | 1    | 50.0            | <0.260           | 120  | 81.5 - 122    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

*continued ...*

control spikes continued ...

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
| MTBE         | 51.8           | µg/L  | 1    | 50.0            | <0.400           | 104  | 78.9 - 121    | 6   | 20           |
| Benzene      | 50.6           | µg/L  | 1    | 50.0            | <0.240           | 101  | 79.5 - 119    | 3   | 20           |
| Toluene      | 55.2           | µg/L  | 1    | 50.0            | <0.270           | 110  | 81.4 - 118    | 3   | 20           |
| Ethylbenzene | 57.8           | µg/L  | 1    | 50.0            | <0.260           | 116  | 79.9 - 118    | 2   | 20           |
| m,p-Xylene   | 118            | µg/L  | 1    | 100             | <0.540           | 118  | 76.3 - 127    | 4   | 20           |
| o-Xylene     | 57.9           | µg/L  | 1    | 50.0            | <0.260           | 116  | 81.5 - 122    | 4   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Dibromofluoromethane         | 47.5          | 48.1           | µg/L  | 1    | 50.0            | 95          | 96           | 91.4 - 114    |
| Toluene-d8                   | 53.9          | 54.2           | µg/L  | 1    | 50.0            | 108         | 108          | 89.8 - 108    |
| 4-Bromofluorobenzene (4-BFB) | 56.6          | 56.4           | µg/L  | 1    | 50.0            | 113         | 113          | 90.2 - 116    |

#### Laboratory Control Spike (LCS-1)

QC Batch: 66267  
Prep Batch: 56636

Date Analyzed: 2009-12-24  
QC Preparation: 2009-12-18

Analyzed By: MN  
Prepared By: MN

| Param                  | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Naphthalene            | 0.0450        | mg/L  | 1    | 0.0800          | <0.0000784       | 56   | 22.2 - 87.9   |
| 2-Methylnaphthalene    | 0.0521        | mg/L  | 1    | 0.0800          | <0.0000747       | 65   | 23.3 - 86.1   |
| 1-Methylnaphthalene    | 0.0533        | mg/L  | 1    | 0.0800          | <0.0000575       | 67   | 24.6 - 87.8   |
| Acenaphthylene         | 0.0517        | mg/L  | 1    | 0.0800          | <0.0000963       | 65   | 27.4 - 114    |
| Acenaphthene           | 0.0531        | mg/L  | 1    | 0.0800          | <0.0000617       | 66   | 27.2 - 111    |
| Dibenzofuran           | 0.0506        | mg/L  | 1    | 0.0800          | <0.0000952       | 63   | 27.3 - 100    |
| Fluorene               | 0.0600        | mg/L  | 1    | 0.0800          | <0.000134        | 75   | 31.5 - 122    |
| Anthracene             | 0.0568        | mg/L  | 1    | 0.0800          | <0.000441        | 71   | 32.4 - 115    |
| Phenanthrene           | 0.0555        | mg/L  | 1    | 0.0800          | <0.000435        | 69   | 34.2 - 111    |
| Fluoranthene           | 0.0655        | mg/L  | 1    | 0.0800          | <0.000476        | 82   | 40.1 - 114    |
| Pyrene                 | 0.0541        | mg/L  | 1    | 0.0800          | <0.000590        | 68   | 39.2 - 124    |
| Benzo(a)anthracene     | 0.0520        | mg/L  | 1    | 0.0800          | <0.000118        | 65   | 39.4 - 114    |
| Chrysene               | 0.0644        | mg/L  | 1    | 0.0800          | <0.0000766       | 80   | 38.2 - 116    |
| Benzo(b)fluoranthene   | 0.0654        | mg/L  | 1    | 0.0800          | <0.000146        | 82   | 34.5 - 118    |
| Benzo(k)fluoranthene   | 0.0891        | mg/L  | 1    | 0.0800          | <0.000141        | 111  | 38.7 - 133    |
| Benzo(a)pyrene         | 0.0887        | mg/L  | 1    | 0.0800          | <0.000132        | 111  | 38 - 134      |
| Indeno(1,2,3-cd)pyrene | 0.0608        | mg/L  | 1    | 0.0800          | <0.0000702       | 76   | 34.6 - 124    |
| Dibenzo(a,h)anthracene | 0.0625        | mg/L  | 1    | 0.0800          | <0.0000534       | 78   | 33.9 - 120    |
| Benzo(g,h,i)perylene   | 0.0592        | mg/L  | 1    | 0.0800          | <0.0000473       | 74   | 33.8 - 138    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param                  | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Naphthalene            | 0.0444         | mg/L  | 1    | 0.0800          | <0.0000784       | 56   | 22.2 - 87.9   | 1   | 20           |
| 2-Methylnaphthalene    | 0.0497         | mg/L  | 1    | 0.0800          | <0.0000747       | 62   | 23.3 - 86.1   | 5   | 20           |
| 1-Methylnaphthalene    | 0.0517         | mg/L  | 1    | 0.0800          | <0.0000575       | 65   | 24.6 - 87.8   | 3   | 20           |
| Acenaphthylene         | 0.0514         | mg/L  | 1    | 0.0800          | <0.0000963       | 64   | 27.4 - 114    | 1   | 20           |
| Acenaphthene           | 0.0500         | mg/L  | 1    | 0.0800          | <0.0000617       | 62   | 27.2 - 111    | 6   | 20           |
| Dibenzofuran           | 0.0485         | mg/L  | 1    | 0.0800          | <0.0000952       | 61   | 27.3 - 100    | 4   | 20           |
| Fluorene               | 0.0573         | mg/L  | 1    | 0.0800          | <0.000134        | 72   | 31.5 - 122    | 5   | 20           |
| Anthracene             | 0.0563         | mg/L  | 1    | 0.0800          | <0.000441        | 70   | 32.4 - 115    | 1   | 20           |
| Phenanthrene           | 0.0553         | mg/L  | 1    | 0.0800          | <0.000435        | 69   | 34.2 - 111    | 0   | 20           |
| Fluoranthene           | 0.0648         | mg/L  | 1    | 0.0800          | <0.000476        | 81   | 40.1 - 114    | 1   | 20           |
| Pyrene                 | 0.0552         | mg/L  | 1    | 0.0800          | <0.000590        | 69   | 39.2 - 124    | 2   | 20           |
| Benzo(a)anthracene     | 0.0541         | mg/L  | 1    | 0.0800          | <0.000118        | 68   | 39.4 - 114    | 4   | 20           |
| Chrysene               | 0.0634         | mg/L  | 1    | 0.0800          | <0.0000766       | 79   | 38.2 - 116    | 2   | 20           |
| Benzo(b)fluoranthene   | 0.0624         | mg/L  | 1    | 0.0800          | <0.000146        | 78   | 34.5 - 118    | 5   | 20           |
| Benzo(k)fluoranthene   | 0.0948         | mg/L  | 1    | 0.0800          | <0.000141        | 118  | 38.7 - 133    | 6   | 20           |
| Benzo(a)pyrene         | 0.0860         | mg/L  | 1    | 0.0800          | <0.000132        | 108  | 38 - 134      | 3   | 20           |
| Indeno(1,2,3-cd)pyrene | 0.0627         | mg/L  | 1    | 0.0800          | <0.0000702       | 78   | 34.6 - 124    | 3   | 20           |
| Dibenzo(a,h)anthracene | 0.0615         | mg/L  | 1    | 0.0800          | <0.0000534       | 77   | 33.9 - 120    | 2   | 20           |
| Benzo(g,h,i)perylene   | 0.0653         | mg/L  | 1    | 0.0800          | <0.0000473       | 82   | 33.8 - 138    | 10  | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate        | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Nitrobenzene-d5  | 0.0420        | 0.0470         | mg/L  | 1    | 0.0800          | 52          | 59           | 25.9 - 97.5   |
| 2-Fluorobiphenyl | 0.0438        | 0.0428         | mg/L  | 1    | 0.0800          | 55          | 54           | 13.9 - 100    |
| Terphenyl-d14    | 0.0576        | 0.0576         | mg/L  | 1    | 0.0800          | 72          | 72           | 37.7 - 114    |

**Matrix Spike (MS-1)** Spiked Sample: 217529

QC Batch: 66193  
Prep Batch: 56579

Date Analyzed: 2009-12-21  
QC Preparation: 2009-12-21

Analyzed By: KB  
Prepared By: KB

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| MTBE         | 47.6         | µg/L  | 1    | 50.0            | <0.400           | 95   | 81.4 - 125    |
| Benzene      | 45.2         | µg/L  | 1    | 50.0            | <0.240           | 90   | 81.5 - 124    |
| Toluene      | 47.5         | µg/L  | 1    | 50.0            | <0.270           | 95   | 81.6 - 122    |
| Ethylbenzene | 47.8         | µg/L  | 1    | 50.0            | <0.260           | 96   | 80.9 - 124    |
| m,p-Xylene   | 96.9         | µg/L  | 1    | 100             | <0.540           | 97   | 79.8 - 127    |
| o-Xylene     | 47.8         | µg/L  | 1    | 50.0            | <0.260           | 96   | 82.9 - 130    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| MTBE         | 51.3       | µg/L  | 1    | 50.0         | <0.400        | 103  | 81.4 - 125 | 8   | 20        |
| Benzene      | 49.1       | µg/L  | 1    | 50.0         | <0.240        | 98   | 81.5 - 124 | 8   | 20        |
| Toluene      | 51.1       | µg/L  | 1    | 50.0         | <0.270        | 102  | 81.6 - 122 | 7   | 20        |
| Ethylbenzene | 52.6       | µg/L  | 1    | 50.0         | <0.260        | 105  | 80.9 - 124 | 10  | 20        |
| m,p-Xylene   | 107        | µg/L  | 1    | 100          | <0.540        | 107  | 79.8 - 127 | 10  | 20        |
| o-Xylene     | 52.9       | µg/L  | 1    | 50.0         | <0.260        | 106  | 82.9 - 130 | 10  | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Dibromofluoromethane         | 50.7      | 47.4       | µg/L  | 1    | 50           | 101     | 95       | 81.3 - 123 |
| Toluene-d8                   | 50.2      | 49.3       | µg/L  | 1    | 50           | 100     | 99       | 87.3 - 110 |
| 4-Bromofluorobenzene (4-BFB) | 54.5      | 51.8       | µg/L  | 1    | 50           | 109     | 104      | 86.3 - 115 |

#### Standard (CCV-1)

QC Batch: 66193

Date Analyzed: 2009-12-21

Analyzed By: KB

| Param        | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| MTBE         |      | µg/L  | 50.0            | 53.4             | 107                   | 80 - 120                | 2009-12-21    |
| Benzene      |      | µg/L  | 50.0            | 50.8             | 102                   | 80 - 120                | 2009-12-21    |
| Toluene      |      | µg/L  | 50.0            | 55.3             | 111                   | 80 - 120                | 2009-12-21    |
| Ethylbenzene |      | µg/L  | 50.0            | 58.6             | 117                   | 80 - 120                | 2009-12-21    |
| m,p-Xylene   |      | µg/L  | 100             | 120              | 120                   | 80 - 120                | 2009-12-21    |
| o-Xylene     |      | µg/L  | 50.0            | 59.0             | 118                   | 80 - 120                | 2009-12-21    |

#### Standard (CCV-1)

QC Batch: 66267

Date Analyzed: 2009-12-24

Analyzed By: MN

| Param               | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Naphthalene         |      | mg/L  | 60.0            | 52.5             | 88                    | 80 - 120                | 2009-12-24    |
| 2-Methylnaphthalene |      | mg/L  | 60.0            | 58.8             | 98                    | 80 - 120                | 2009-12-24    |
| 1-Methylnaphthalene |      | mg/L  | 60.0            | 58.4             | 97                    | 80 - 120                | 2009-12-24    |
| Acenaphthylene      |      | mg/L  | 60.0            | 49.8             | 83                    | 80 - 120                | 2009-12-24    |
| Acenaphthene        |      | mg/L  | 60.0            | 50.3             | 84                    | 80 - 120                | 2009-12-24    |
| Dibenzofuran        |      | mg/L  | 60.0            | 52.2             | 87                    | 80 - 120                | 2009-12-24    |
| Fluorene            |      | mg/L  | 60.0            | 55.2             | 92                    | 80 - 120                | 2009-12-24    |
| Anthracene          |      | mg/L  | 60.0            | 55.8             | 93                    | 80 - 120                | 2009-12-24    |
| Phenanthrene        |      | mg/L  | 60.0            | 53.5             | 89                    | 80 - 120                | 2009-12-24    |

continued ...

standard continued ...

| Param                  | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Fluoranthene           | 2    | mg/L  | 60.0                  | 58.3                   | 97                          | 80 - 120                      | 2009-12-24       |
| Pyrene                 |      | mg/L  | 60.0                  | 47.3                   | 79                          | 80 - 120                      | 2009-12-24       |
| Benzo(a)anthracene     |      | mg/L  | 60.0                  | 49.0                   | 82                          | 80 - 120                      | 2009-12-24       |
| Chrysene               |      | mg/L  | 60.0                  | 53.5                   | 89                          | 80 - 120                      | 2009-12-24       |
| Benzo(b)fluoranthene   |      | mg/L  | 60.0                  | 55.5                   | 92                          | 80 - 120                      | 2009-12-24       |
| Benzo(k)fluoranthene   |      | mg/L  | 60.0                  | 67.6                   | 113                         | 80 - 120                      | 2009-12-24       |
| Benzo(a)pyrene         |      | mg/L  | 60.0                  | 65.2                   | 109                         | 80 - 120                      | 2009-12-24       |
| Indeno(1,2,3-cd)pyrene |      | mg/L  | 60.0                  | 50.6                   | 84                          | 80 - 120                      | 2009-12-24       |
| Dibenzo(a,h)anthracene |      | mg/L  | 60.0                  | 54.1                   | 90                          | 80 - 120                      | 2009-12-24       |
| Benzo(g,h,i)perylene   |      | mg/L  | 60.0                  | 49.2                   | 82                          | 80 - 120                      | 2009-12-24       |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  | 3    | 58.6   | mg/L  | 1        | 60.0            | 98                  | 80 - 120          |
| 2-Fluorobiphenyl |      | 48.5   | mg/L  | 1        | 60.0            | 81                  | 80 - 120          |
| Terphenyl-d14    |      | 45.2   | mg/L  | 1        | 60.0            | 75                  | 80 - 120          |

#### Standard (CCV-2)

QC Batch: 66267

Date Analyzed: 2009-12-24

Analyzed By: MN

| Param                | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Naphthalene          | 4    | mg/L  | 60.0                  | 53.3                   | 89                          | 80 - 120                      | 2009-12-24       |
| 2-Methylnaphthalene  |      | mg/L  | 60.0                  | 59.0                   | 98                          | 80 - 120                      | 2009-12-24       |
| 1-Methylnaphthalene  |      | mg/L  | 60.0                  | 58.4                   | 97                          | 80 - 120                      | 2009-12-24       |
| Acenaphthylene       |      | mg/L  | 60.0                  | 51.4                   | 86                          | 80 - 120                      | 2009-12-24       |
| Acenaphthene         |      | mg/L  | 60.0                  | 51.1                   | 85                          | 80 - 120                      | 2009-12-24       |
| Dibenzofuran         |      | mg/L  | 60.0                  | 52.5                   | 88                          | 80 - 120                      | 2009-12-24       |
| Fluorene             |      | mg/L  | 60.0                  | 55.3                   | 92                          | 80 - 120                      | 2009-12-24       |
| Anthracene           |      | mg/L  | 60.0                  | 56.0                   | 93                          | 80 - 120                      | 2009-12-24       |
| Phenanthrene         |      | mg/L  | 60.0                  | 53.8                   | 90                          | 80 - 120                      | 2009-12-24       |
| Fluoranthene         |      | mg/L  | 60.0                  | 58.5                   | 98                          | 80 - 120                      | 2009-12-24       |
| Pyrene               |      | mg/L  | 60.0                  | 46.6                   | 78                          | 80 - 120                      | 2009-12-24       |
| Benzo(a)anthracene   |      | mg/L  | 60.0                  | 48.6                   | 81                          | 80 - 120                      | 2009-12-24       |
| Chrysene             |      | mg/L  | 60.0                  | 53.3                   | 89                          | 80 - 120                      | 2009-12-24       |
| Benzo(b)fluoranthene |      | mg/L  | 60.0                  | 48.2                   | 80                          | 80 - 120                      | 2009-12-24       |
| Benzo(k)fluoranthene |      | mg/L  | 60.0                  | 70.2                   | 117                         | 80 - 120                      | 2009-12-24       |
| Benzo(a)pyrene       |      | mg/L  | 60.0                  | 66.0                   | 110                         | 80 - 120                      | 2009-12-24       |

continued ...

<sup>2</sup>Control analyte out of CCV control limits. Results biased low. •

<sup>3</sup>8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

<sup>4</sup>Control analyte out of CCV control limits. Results biased low. •

standard continued ...

| Param                  | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Indeno(1,2,3-cd)pyrene |      | mg/L  | 60.0                  | 50.8                   | 85                          | 80 - 120                      | 2009-12-24       |
| Dibenzo(a,h)anthracene |      | mg/L  | 60.0                  | 52.8                   | 88                          | 80 - 120                      | 2009-12-24       |
| Benzo(g,h,i)perylene   |      | mg/L  | 60.0                  | 48.6                   | 81                          | 80 - 120                      | 2009-12-24       |

| Surrogate        | Flag         | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|--------------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |              | 59.0   | mg/L  | 1        | 60.0            | 98                  | 80 - 120          |
| 2-Fluorobiphenyl |              | 49.3   | mg/L  | 1        | 60.0            | 82                  | 80 - 120          |
| Terphenyl-d14    | <sup>5</sup> | 45.2   | mg/L  | 1        | 60.0            | 75                  | 80 - 120          |

<sup>5</sup>8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.



9121714

LAB Order ID #

9121714

Page

1 of 2

# TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

6015 Harris Pkwy. Suite 110  
Ft. Worth, Texas 76132  
Tel (817) 201-5260

Company Name:

*ERC INTERNATIONAL*

Phone #:

*(575) 3976388*

Address:

*1324 W. MARLAND, Hobbs NM 88240*

Fax #:

*(575) 3970397*

Contact Person:

*Cliff Beaman*

E-mail:

Invoice to:

(If different from above)

Project #:

Project Location (including state):

*Hobbs NM*

Project Name:

*WISGATE*

Sampler Signature:

*Peter Hernandez*

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     |      | SAMPLING |          | Turn Around Time if diff | Hold |               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
|-------------------------|------------|--------------|-----------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|------|----------|----------|--------------------------|------|---------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
|                         |            |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE | DATE     | TIME     |                          |      |               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| 21754                   | MW. 10     | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                |      | ✓   |      |          | 12-15-09 | 10:10                    |      |               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| 525                     | MW. 10     | 1            | IL              | ✓      |      |     |        |                     |                  |                                |      | ✓   |      |          | 12-15-09 | 10:20                    |      |               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| 525                     | MW. 9      | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                |      | ✓   |      |          | 12-15-09 | 11:00                    |      |               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| 527                     | MW. 9      | 1            | IL              | ✓      |      |     |        |                     |                  |                                |      | ✓   |      |          | 12-15-09 | 11:00                    |      |               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| 526                     | MW. 8      | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                |      | ✓   |      |          | 12-15-09 | 17:00                    |      |               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| 527                     | MW. 8      | 1            | IL              | ✓      |      |     |        |                     |                  |                                |      | ✓   |      |          | 12-15-09 | 17:00                    |      |               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| 527                     | MW. 4      | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                |      | ✓   |      |          | 12-15-09 | 1:40                     |      |               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| 528                     | MW. 4      | 1            | IL              | ✓      |      |     |        |                     |                  |                                |      | ✓   |      |          | 12-15-09 | 1:40                     |      |               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| 528                     | MW. 6      | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                |      | ✓   |      |          | 12-15-09 | 2:50                     |      |               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| 529                     | MW. 6      | 1            | IL              | ✓      |      |     |        |                     |                  |                                |      | ✓   |      |          | 12-15-09 | 2:50                     |      |               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| 529                     | MW. 11     | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                |      | ✓   |      |          | 12-15-09 | 3:20                     |      |               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |          |                          |      | PAH 8270C / 8 | ✓ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | </ |

Relinquished by: *[Signature]* Date: 12-15-09 Time: 6:30

Relinquished by: *[Signature]* Date: *[Blank]* Time: *[Blank]*

Relinquished by: *[Signature]* Date: 12-17-09 Time: 9:45 AM

Received by: *[Signature]* Date: 12-17-09 Time: 9:45 AM

Received by: *[Signature]* Date: *[Blank]* Time: *[Blank]*

Received at Laboratory by: *[Signature]* Date: 12-17-09 Time: 9:45 AM

## LAB USE ONLY

Intact ☒ Y ☐ N  
Headspace ☒ Y ☐ N  
Temp 3.7 (4.1) °C  
Log-in-Review *[Signature]*

## REMARKS:

☐ Dry Weight Basis Required  
☐ TRRP Report Required  
☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

Carrier # GLI 3055696424

## ANALYSIS REQUEST (Circle or Specify Method No.)

|                                                                    |                                                               |                                                                                      |                                                    |                                                         |                                                     |                                         |                                                            |                                                                  |                                                      |                                                            |                                                  |                                                      |                                                                      |
|--------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|-----------------------------------------|------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------|
| <input checked="" type="checkbox"/> MTBE 8021B / 602 / 8260B / 624 | <input checked="" type="checkbox"/> TPH 8015 GRO / DRO / TVHC | <input checked="" type="checkbox"/> Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | <input checked="" type="checkbox"/> TCLP Volatiles | <input checked="" type="checkbox"/> TCLP Semi Volatiles | <input checked="" type="checkbox"/> TCLP Pesticides | <input checked="" type="checkbox"/> RCI | <input checked="" type="checkbox"/> GC/MS Vol. 8260B / 624 | <input checked="" type="checkbox"/> GC/MS Semi. Vol. 8270C / 625 | <input checked="" type="checkbox"/> PCB's 8082 / 608 | <input checked="" type="checkbox"/> Pesticides 8081A / 608 | <input checked="" type="checkbox"/> BOD, TSS, pH | <input checked="" type="checkbox"/> Moisture Content | <input type="checkbox"/> Turn Around Time if different from standard |
|--------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|-----------------------------------------|------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------|



# APPENDIX III

---

**TRACE ANALYSIS, INC.**  
Laboratory Results 2010

Westgate Subdivision  
Grimes Battery & Tasker Road

**August 2012**

Shell Exploration & Production Company  
Houston, Texas

Prepared by:  
BBC International, Inc.

## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: March 23, 2010

Work Order: 10031917



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 226114 | MW #10      | water  | 2010-03-17 | 11:32      | 2010-03-19    |
| 226115 | MW #8       | water  | 2010-03-17 | 13:40      | 2010-03-19    |
| 226116 | MW #9       | water  | 2010-03-17 | 14:29      | 2010-03-19    |
| 226117 | MW #5       | water  | 2010-03-17 | 15:22      | 2010-03-19    |

### Sample: 226114 - MW #10

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

### Sample: 226115 - MW #8

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

**Sample: 226116 - MW #9**

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

**Sample: 226117 - MW #5**

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      | 1    | <5.00  | µg/L  | 1.00 |
| Toluene      |      | <5.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <5.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <5.00  | µg/L  | 1.00 |
| o-Xylene     |      | <5.00  | µg/L  | 1.00 |

<sup>1</sup>Sample dilution necessitated due to the presence of soil in sample.



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•595•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBENC: 237019

HUB: 1752439743100-86536  
NCTRCA WFWB38444Y0909

DBE: VN 20657

## NELAP Certifications

Lubbock: T104704219-08-TX  
LELAP-02003  
Kansas E-10317

El Paso: T104704221-08-TX  
LELAP-02002

Midland: T104704392-08-TX

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: March 23, 2010

Work Order: 10031917



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 226114 | MW #10      | water  | 2010-03-17 | 11:32      | 2010-03-19    |
| 226115 | MW #8       | water  | 2010-03-17 | 13:40      | 2010-03-19    |
| 226116 | MW #9       | water  | 2010-03-17 | 14:29      | 2010-03-19    |
| 226117 | MW #5       | water  | 2010-03-17 | 15:22      | 2010-03-19    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 8 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive style with a large, stylized 'M' and 'A'.

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

**Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Westgate were received by TraceAnalysis, Inc. on 2010-03-19 and assigned to work order 10031917. Samples for work order 10031917 were received intact without headspace and at a temperature of 2.5 C.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method  | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|-----------|---------|---------------|---------------------|-------------|---------------------|
| Volatiles | S 8260B | 58602         | 2010-03-22 at 12:00 | 68494       | 2010-03-22 at 12:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10031917 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.



Report Date: March 23, 2010  
Westgate

Work Order: 10031917  
Westgate

Page Number: 4 of 8  
Hobbs, NM

## Analytical Report

Sample: 226114 - MW #10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 68494  
Prep Batch: 58602

Analytical Method: S 8260B  
Date Analyzed: 2010-03-22  
Sample Preparation: 2010-03-22

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 51.3   | µg/L  | 1        | 50.0            | 103                 | 88.3 - 117         |
| Toluene-d8                   |      | 48.2   | µg/L  | 1        | 50.0            | 96                  | 87.7 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 48.9   | µg/L  | 1        | 50.0            | 98                  | 84.6 - 114         |

Sample: 226115 - MW #8

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 68494  
Prep Batch: 58602

Analytical Method: S 8260B  
Date Analyzed: 2010-03-22  
Sample Preparation: 2010-03-22

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 51.8   | µg/L  | 1        | 50.0            | 104                 | 88.3 - 117         |
| Toluene-d8                   |      | 48.4   | µg/L  | 1        | 50.0            | 97                  | 87.7 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 49.2   | µg/L  | 1        | 50.0            | 98                  | 84.6 - 114         |

Report Date: March 23, 2010  
Westgate

Work Order: 10031917  
Westgate

Page Number: 5 of 8  
Hobbs, NM

**Sample: 226116 - MW #9**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 68494  
Prep Batch: 58602

Analytical Method: S 8260B  
Date Analyzed: 2010-03-22  
Sample Preparation: 2010-03-22

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 51.5   | µg/L  | 1        | 50.0            | 103                 | 88.3 - 117         |
| Toluene-d8                   |      | 47.9   | µg/L  | 1        | 50.0            | 96                  | 87.7 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 49.0   | µg/L  | 1        | 50.0            | 98                  | 84.6 - 114         |

**Sample: 226117 - MW #5**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 68494  
Prep Batch: 58602

Analytical Method: S 8260B  
Date Analyzed: 2010-03-22  
Sample Preparation: 2010-03-22

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag         | RL<br>Result | Units | Dilution | RL   |
|--------------|--------------|--------------|-------|----------|------|
| Benzene      | <sup>1</sup> | <5.00        | µg/L  | 5        | 1.00 |
| Toluene      |              | <5.00        | µg/L  | 5        | 1.00 |
| Ethylbenzene |              | <5.00        | µg/L  | 5        | 1.00 |
| m,p-Xylene   |              | <5.00        | µg/L  | 5        | 1.00 |
| o-Xylene     |              | <5.00        | µg/L  | 5        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 257    | µg/L  | 5        | 250             | 103                 | 88.3 - 117         |
| Toluene-d8                   |      | 240    | µg/L  | 5        | 250             | 96                  | 87.7 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 245    | µg/L  | 5        | 250             | 98                  | 84.6 - 114         |

<sup>1</sup>Sample dilution necessitated due to the presence of soil in sample.

Report Date: March 23, 2010  
Westgate

Work Order: 10031917  
Westgate

Page Number: 6 of 8  
Hobbs, NM

**Method Blank (1)**      QC Batch: 68494

QC Batch: 68494  
Prep Batch: 58602

Date Analyzed: 2010-03-22  
QC Preparation: 2010-03-22

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | MDL<br>Result | Units | RL |
|--------------|------|---------------|-------|----|
| Benzene      |      | <0.200        | µg/L  | 1  |
| Toluene      |      | <0.200        | µg/L  | 1  |
| Ethylbenzene |      | <0.140        | µg/L  | 1  |
| m,p-Xylene   |      | <0.270        | µg/L  | 1  |
| o-Xylene     |      | <0.120        | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 51.1   | µg/L  | 1        | 50.0            | 102                 | 88.3 - 117         |
| Toluene-d8                   |      | 48.8   | µg/L  | 1        | 50.0            | 98                  | 87.7 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 48.9   | µg/L  | 1        | 50.0            | 98                  | 84.6 - 114         |

**Laboratory Control Spike (LCS-1)**

QC Batch: 68494  
Prep Batch: 58602

Date Analyzed: 2010-03-22  
QC Preparation: 2010-03-22

Analyzed By: KB  
Prepared By: KB

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 52.1          | µg/L  | 1    | 50.0            | <0.200           | 104  | 77.3 - 121    |
| Toluene      | 52.1          | µg/L  | 1    | 50.0            | <0.200           | 104  | 79.1 - 122    |
| Ethylbenzene | 50.2          | µg/L  | 1    | 50.0            | <0.140           | 100  | 82.4 - 121    |
| m,p-Xylene   | 100           | µg/L  | 1    | 100             | <0.270           | 100  | 80.9 - 123    |
| o-Xylene     | 50.7          | µg/L  | 1    | 50.0            | <0.120           | 101  | 82.2 - 123    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 51.5           | µg/L  | 1    | 50.0            | <0.200           | 103  | 77.3 - 121    | 1   | 20           |
| Toluene      | 51.9           | µg/L  | 1    | 50.0            | <0.200           | 104  | 79.1 - 122    | 0   | 20           |
| Ethylbenzene | 49.7           | µg/L  | 1    | 50.0            | <0.140           | 99   | 82.4 - 121    | 1   | 20           |
| m,p-Xylene   | 99.3           | µg/L  | 1    | 100             | <0.270           | 99   | 80.9 - 123    | 1   | 20           |
| o-Xylene     | 50.0           | µg/L  | 1    | 50.0            | <0.120           | 100  | 82.2 - 123    | 1   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate            | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|----------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Dibromofluoromethane | 52.0          | 51.3           | µg/L  | 1    | 50.0            | 104         | 103          | 87.7 - 114    |

*continued ...*

Report Date: March 23, 2010  
Westgate

Work Order: 10031917  
Westgate

Page Number: 7 of 8  
Hobbs, NM

control spikes continued ...

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Toluene-d8                   | 48.1          | 48.2           | µg/L  | 1    | 50.0            | 96          | 96           | 89.7 - 112    |
| 4-Bromofluorobenzene (4-BFB) | 49.4          | 49.0           | µg/L  | 1    | 50.0            | 99          | 98           | 86.7 - 116    |

Matrix Spike (xMS-1) Spiked Sample:

QC Batch: 68494  
Prep Batch: 58602

Date Analyzed: 2010-03-22  
QC Preparation: 2010-03-22

Analyzed By: KB  
Prepared By: KB

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 65.8         | µg/L  | 1    | 50.0            | 16.5             | 99   | 68.2 - 129    |
| Toluene      | 53.5         | µg/L  | 1    | 50.0            | 3.01             | 101  | 77.4 - 122    |
| Ethylbenzene | 49.1         | µg/L  | 1    | 50.0            | 1.21             | 96   | 80.8 - 118    |
| m,p-Xylene   | 97.2         | µg/L  | 1    | 100             | 0.9              | 96   | 80.5 - 118    |
| o-Xylene     | 49.5         | µg/L  | 1    | 50.0            | 0.74             | 98   | 81.8 - 120    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 64.9          | µg/L  | 1    | 50.0            | 16.5             | 97   | 68.2 - 129    | 1   | 20           |
| Toluene      | 52.4          | µg/L  | 1    | 50.0            | 3.01             | 99   | 77.4 - 122    | 2   | 20           |
| Ethylbenzene | 47.9          | µg/L  | 1    | 50.0            | 1.21             | 93   | 80.8 - 118    | 2   | 20           |
| m,p-Xylene   | 94.8          | µg/L  | 1    | 100             | 0.9              | 94   | 80.5 - 118    | 2   | 20           |
| o-Xylene     | 48.1          | µg/L  | 1    | 50.0            | 0.74             | 95   | 81.8 - 120    | 3   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 52.0         | 51.8          | µg/L  | 1    | 50              | 104        | 104         | 89.8 - 118    |
| Toluene-d8                   | 48.2         | 47.6          | µg/L  | 1    | 50              | 96         | 95          | 89.9 - 110    |
| 4-Bromofluorobenzene (4-BFB) | 49.7         | 48.7          | µg/L  | 1    | 50              | 99         | 97          | 86.4 - 117    |

Standard (CCV-1)

QC Batch: 68494

Date Analyzed: 2010-03-22

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | µg/L  | 50.0                  | 53.8                   | 108                         | 80 - 120                      | 2010-03-22       |
| Toluene      |      | µg/L  | 50.0                  | 53.6                   | 107                         | 80 - 120                      | 2010-03-22       |
| Ethylbenzene |      | µg/L  | 50.0                  | 52.1                   | 104                         | 80 - 120                      | 2010-03-22       |

continued ...

Report Date: March 23, 2010  
Westgate

Work Order: 10031917  
Westgate

Page Number: 8 of 8  
Hobbs, NM

*standard continued ...*

| Param      | Flag | Units           | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------|------|-----------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| m,p-Xylene |      | $\mu\text{g/L}$ | 100                   | 104                    | 104                         | 80 - 120                      | 2010-03-22       |
| o-Xylene   |      | $\mu\text{g/L}$ | 50.0                  | 52.7                   | 105                         | 80 - 120                      | 2010-03-22       |

# TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

Company Name: BBC International Phone #: (575) 397-6388  
Address: 1324 W. Marland Fax #: (575) 397-0397  
Contact Person: L.H. Brunson E-mail:

Invoice to: same  
(If different from above)  
Project #: None

Project Name: Wastewater  
Project Location (including state): Hobbs, NM  
Sampler Signature: [Signature]

| LAB #<br>LAB USE ONLY | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     |      | SAMPLING |       |
|-----------------------|------------|--------------|-----------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|------|----------|-------|
|                       |            |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE | DATE     | TIME  |
| 226114                | MW# 10     | 3            | Vol             | X      |      |     |        | X                   |                  |                                |      |     |      | 3/17/10  | 11:32 |
| 115                   | MW# 8      | 3            | Vol             | X      |      |     |        | X                   |                  |                                |      |     |      | 3/17/10  | 1:40  |
| 116                   | MW# 9      | 3            | Vol             | X      |      |     |        | X                   |                  |                                |      |     |      | 3/17/10  | 2:09  |
| 117                   | MW# 5      | 3            | Vol             | X      |      |     |        | X                   |                  |                                |      |     |      | 3/17/10  | 3:22  |
|                       | Temp Blank | 1            |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |
|                       |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |       |

Relinquished by: [Signature] Date: 3-18 Time: 11:45 Received by: Trace Date: 3-19-10 Time: 13:35  
Relinquished by: [Signature] Date:  Time:  Received by:  Date:  Time:   
Relinquished by: Casey Fox Date: 3-19-10 Time: 1:35 pm Received by:  Date:  Time:

## ANALYSIS REQUEST (Circle or Specify Method No.)

|                                                  |   |
|--------------------------------------------------|---|
| MTBE 8021B / 602 / 8260B / 624                   |   |
| BTEX 8021B / 602 / 8260B / 624                   | X |
| TPH 418.1 / TX1005 / TX1005 EX(C35)              |   |
| TPH 8015 GRO / DRO / TVHC                        |   |
| PAH 8270C / 625                                  |   |
| Total Metals Ag As Ba Cd Cr Pb Se Hg 60108/200.7 |   |
| TCLP Metals Ag As Ba Cd Cr Pb Se Hg              |   |
| TCLP Volatiles                                   |   |
| TCLP Semi Volatiles                              |   |
| TCLP Pesticides                                  |   |
| RCI                                              |   |
| GC/MS Vol. 8260B / 624                           |   |
| GC/MS Semi. Vol. 8270C / 625                     |   |
| PCBs 8082 / 608                                  |   |
| Pesticides 8081A / 608                           |   |
| BOD, TSS, pH                                     |   |
| Moisture Content                                 |   |

### REMARKS:

LAB USE ONLY  
Intact Y / N  
Headspace Y / N  
Temp 2.1/2.5  
Log-In-Review [Signature]

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Carrier # F5x 7933 6784 5285

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.  
ORIGINAL COPY

## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: July 1, 2010

Work Order: 10062904



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 236059 | MW #10      | water  | 2010-06-28 | 11:00      | 2010-06-29    |
| 236060 | MW #8       | water  | 2010-06-28 | 13:10      | 2010-06-29    |
| 236061 | MW #9       | water  | 2010-06-28 | 14:30      | 2010-06-29    |

### Sample: 236059 - MW #10

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

### Sample: 236060 - MW #8

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

---

**Sample: 236061 - MW #9**

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

---



# TRACE ANALYSIS, INC.

6200 Ash-John Avenue, Suite 9 Lubbock, Texas 79424 800•374•1296 906•794•1296 FAX 806•794•1296  
2001 East Street Road, Suite F El Paso, Texas 79922 806•686•3443 915•686•3443 FAX 915•686•4944  
6002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6301  
8011 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBENC: 237019

HUB: 1752439743100-86536  
NCTRCA WFWB38444Y0909

DBE: VN 20657

## NELAP Certifications

Lubbock: T104704219-08-TX  
LELAP-02003  
Kansas E-10317

El Paso: T104704221-08-TX  
LELAP-02002

Midland: T104704392-08-TX

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: July 1, 2010

Work Order: 10062904



GL#: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 236059 | MW #10      | water  | 2010-06-28 | 11:00      | 2010-06-29    |
| 236060 | MW #8       | water  | 2010-06-28 | 13:10      | 2010-06-29    |
| 236061 | MW #9       | water  | 2010-06-28 | 14:30      | 2010-06-29    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive, flowing style.

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

**Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Westgate were received by TraceAnalysis, Inc. on 2010-06-29 and assigned to work order 10062904. Samples for work order 10062904 were received intact without headspace and at a temperature of 2.0 C.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method   | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|-----------|----------|---------------|---------------------|-------------|---------------------|
| Volatiles | S 8260 C | 61109         | 2010-06-29 at 12:00 | 71337       | 2010-06-29 at 12:00 |
| Volatiles | S 8260 C | 61148         | 2010-06-30 at 12:00 | 71378       | 2010-06-30 at 12:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10062904 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: July 1, 2010  
Westgate

Work Order: 10062904  
Westgate

Page Number: 4 of 9  
Hobbs, NM

## Analytical Report

### Sample: 236059 - MW #10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 71378  
Prep Batch: 61148

Analytical Method: S 8260 C  
Date Analyzed: 2010-06-30  
Sample Preparation: 2010-06-30

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 57.9   | µg/L  | 1        | 50.0            | 116                 | 88.3 - 117         |
| Toluene-d8                   |      | 49.6   | µg/L  | 1        | 50.0            | 99                  | 87.7 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 53.4   | µg/L  | 1        | 50.0            | 107                 | 84.6 - 114         |

### Sample: 236060 - MW #8

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 71337  
Prep Batch: 61109

Analytical Method: S 8260 C  
Date Analyzed: 2010-06-29  
Sample Preparation: 2010-06-29

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 49.5   | µg/L  | 1        | 50.0            | 99                  | 88.3 - 117         |
| Toluene-d8                   |      | 50.0   | µg/L  | 1        | 50.0            | 100                 | 87.7 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 48.0   | µg/L  | 1        | 50.0            | 96                  | 84.6 - 114         |

Report Date: July 1, 2010  
Westgate

Work Order: 10062904  
Westgate

Page Number: 5 of 9  
Hobbs, NM

**Sample: 236061 - MW #9**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 71378  
Prep Batch: 61148

Analytical Method: S 8260 C  
Date Analyzed: 2010-06-30  
Sample Preparation: 2010-06-30

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 54.9   | µg/L  | 1        | 50.0            | 110                 | 88.3 - 117         |
| Toluene-d8                   |      | 48.7   | µg/L  | 1        | 50.0            | 97                  | 87.7 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 51.4   | µg/L  | 1        | 50.0            | 103                 | 84.6 - 114         |

**Method Blank (1)**      QC Batch: 71337

QC Batch: 71337  
Prep Batch: 61109

Date Analyzed: 2010-06-29  
QC Preparation: 2010-06-29

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | MDL<br>Result | Units | RL |
|--------------|------|---------------|-------|----|
| Benzene      |      | <0.200        | µg/L  | 1  |
| Toluene      |      | <0.200        | µg/L  | 1  |
| Ethylbenzene |      | <0.140        | µg/L  | 1  |
| m,p-Xylene   |      | <0.270        | µg/L  | 1  |
| o-Xylene     |      | <0.120        | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 49.2   | µg/L  | 1        | 50.0            | 98                  | 88.3 - 117         |
| Toluene-d8                   |      | 50.3   | µg/L  | 1        | 50.0            | 101                 | 87.7 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 48.2   | µg/L  | 1        | 50.0            | 96                  | 84.6 - 114         |

**Method Blank (1)**      QC Batch: 71378

QC Batch: 71378  
Prep Batch: 61148

Date Analyzed: 2010-06-30  
QC Preparation: 2010-06-30

Analyzed By: KB  
Prepared By: KB

Report Date: July 1, 2010  
Westgate

Work Order: 10062904  
Westgate

Page Number: 6 of 9  
Hobbs, NM

| Parameter    | Flag | MDL<br>Result | Units | RL |
|--------------|------|---------------|-------|----|
| Benzene      |      | <0.200        | µg/L  | 1  |
| Toluene      |      | <0.200        | µg/L  | 1  |
| Ethylbenzene |      | <0.140        | µg/L  | 1  |
| m,p-Xylene   |      | <0.270        | µg/L  | 1  |
| o-Xylene     |      | <0.120        | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 57.2   | µg/L  | 1        | 50.0            | 114                 | 88.3 - 117         |
| Toluene-d8                   |      | 49.8   | µg/L  | 1        | 50.0            | 100                 | 87.7 - 112         |
| 4-Bromofluorobenzene (4-BFB) |      | 52.9   | µg/L  | 1        | 50.0            | 106                 | 84.6 - 114         |

#### Laboratory Control Spike (LCS-1)

QC Batch: 71337  
Prep Batch: 61109

Date Analyzed: 2010-06-29  
QC Preparation: 2010-06-29

Analyzed By: KB  
Prepared By: KB

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 53.9          | µg/L  | 1    | 50.0            | <0.200           | 108  | 77.3 - 121    |
| Toluene      | 53.4          | µg/L  | 1    | 50.0            | <0.200           | 107  | 79.1 - 122    |
| Ethylbenzene | 55.0          | µg/L  | 1    | 50.0            | <0.140           | 110  | 82.4 - 121    |
| m,p-Xylene   | 110           | µg/L  | 1    | 100             | <0.270           | 110  | 80.9 - 123    |
| o-Xylene     | 56.6          | µg/L  | 1    | 50.0            | <0.120           | 113  | 82.2 - 123    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 53.5          | µg/L  | 1    | 50.0            | <0.200           | 107  | 77.3 - 121    | 1   | 20           |
| Toluene      | 52.5          | µg/L  | 1    | 50.0            | <0.200           | 105  | 79.1 - 122    | 2   | 20           |
| Ethylbenzene | 54.3          | µg/L  | 1    | 50.0            | <0.140           | 109  | 82.4 - 121    | 1   | 20           |
| m,p-Xylene   | 109           | µg/L  | 1    | 100             | <0.270           | 109  | 80.9 - 123    | 1   | 20           |
| o-Xylene     | 55.7          | µg/L  | 1    | 50.0            | <0.120           | 111  | 82.2 - 123    | 2   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Dibromofluoromethane         | 49.5          | 49.6          | µg/L  | 1    | 50.0            | 99          | 99          | 87.7 - 114    |
| Toluene-d8                   | 50.2          | 50.1          | µg/L  | 1    | 50.0            | 100         | 100         | 89.7 - 112    |
| 4-Bromofluorobenzene (4-BFB) | 49.9          | 49.9          | µg/L  | 1    | 50.0            | 100         | 100         | 86.7 - 116    |

Report Date: July 1, 2010  
Westgate

Work Order: 10062904  
Westgate

Page Number: 7 of 9  
Hobbs, NM

### Laboratory Control Spike (LCS-1)

QC Batch: 71378  
Prep Batch: 61148

Date Analyzed: 2010-06-30  
QC Preparation: 2010-06-30

Analyzed By: KB  
Prepared By: KB

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 51.2          | µg/L  | 1    | 50.0            | <0.200           | 102  | 77.3 - 121    |
| Toluene      | 58.4          | µg/L  | 1    | 50.0            | <0.200           | 117  | 79.1 - 122    |
| Ethylbenzene | 53.3          | µg/L  | 1    | 50.0            | <0.140           | 107  | 82.4 - 121    |
| m,p-Xylene   | 109           | µg/L  | 1    | 100             | <0.270           | 109  | 80.9 - 123    |
| o-Xylene     | 56.1          | µg/L  | 1    | 50.0            | <0.120           | 112  | 82.2 - 123    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 52.1          | µg/L  | 1    | 50.0            | <0.200           | 104  | 77.3 - 121    | 2   | 20           |
| Toluene      | 54.8          | µg/L  | 1    | 50.0            | <0.200           | 110  | 79.1 - 122    | 6   | 20           |
| Ethylbenzene | 56.2          | µg/L  | 1    | 50.0            | <0.140           | 112  | 82.4 - 121    | 5   | 20           |
| m,p-Xylene   | 116           | µg/L  | 1    | 100             | <0.270           | 116  | 80.9 - 123    | 6   | 20           |
| o-Xylene     | 59.5          | µg/L  | 1    | 50.0            | <0.120           | 119  | 82.2 - 123    | 6   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                                 | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|-------------------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Dibromofluoromethane <sup>1</sup>         | 60.1          | 56.1          | µg/L  | 1    | 50.0            | 120         | 112         | 87.7 - 114    |
| Toluene-d8                                | 45.3          | 49.2          | µg/L  | 1    | 50.0            | 91          | 98          | 89.7 - 112    |
| 4-Bromofluorobenzene (4-BFB) <sup>2</sup> | 53.2          | 62.7          | µg/L  | 1    | 50.0            | 106         | 125         | 86.7 - 116    |

### Matrix Spike (MS-1) Spiked Sample: 236060

QC Batch: 71337  
Prep Batch: 61109

Date Analyzed: 2010-06-29  
QC Preparation: 2010-06-29

Analyzed By: KB  
Prepared By: KB

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 50.7         | µg/L  | 1    | 50.0            | <0.200           | 101  | 68.2 - 129    |
| Toluene      | 48.0         | µg/L  | 1    | 50.0            | <0.200           | 96   | 77.4 - 122    |
| Ethylbenzene | 47.3         | µg/L  | 1    | 50.0            | <0.140           | 95   | 80.8 - 118    |
| m,p-Xylene   | 94.9         | µg/L  | 1    | 100             | <0.270           | 95   | 80.5 - 118    |
| o-Xylene     | 50.0         | µg/L  | 1    | 50.0            | <0.120           | 100  | 81.8 - 120    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

<sup>1</sup> 8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

<sup>2</sup> 8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

Report Date: July 1, 2010  
Westgate

Work Order: 10062904  
Westgate

Page Number: 8 of 9  
Hobbs, NM

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 54.4          | µg/L  | 1    | 50.0            | <0.200           | 109  | 68.2 - 129    | 7   | 20           |
| Toluene      | 53.0          | µg/L  | 1    | 50.0            | <0.200           | 106  | 77.4 - 122    | 10  | 20           |
| Ethylbenzene | 54.1          | µg/L  | 1    | 50.0            | <0.140           | 108  | 80.8 - 118    | 13  | 20           |
| m,p-Xylene   | 109           | µg/L  | 1    | 100             | <0.270           | 109  | 80.5 - 118    | 14  | 20           |
| o-Xylene     | 55.6          | µg/L  | 1    | 50.0            | <0.120           | 111  | 81.8 - 120    | 11  | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 49.6         | 49.3          | µg/L  | 1    | 50              | 99         | 99          | 89.8 - 118    |
| Toluene-d8                   | 50.4         | 50.4          | µg/L  | 1    | 50              | 101        | 101         | 89.9 - 110    |
| 4-Bromofluorobenzene (4-BFB) | 50.3         | 49.9          | µg/L  | 1    | 50              | 101        | 100         | 86.4 - 117    |

**Matrix Spike (MS-1)** Spiked Sample: 236183

QC Batch: 71378  
Prep Batch: 61148

Date Analyzed: 2010-06-30  
QC Preparation: 2010-06-30

Analyzed By: KB  
Prepared By: KB

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 55.3         | µg/L  | 1    | 50.0            | <0.200           | 111  | 68.2 - 129    |
| Toluene      | 54.5         | µg/L  | 1    | 50.0            | <0.200           | 109  | 77.4 - 122    |
| Ethylbenzene | 56.1         | µg/L  | 1    | 50.0            | <0.140           | 112  | 80.8 - 118    |
| m,p-Xylene   | 114          | µg/L  | 1    | 100             | <0.270           | 114  | 80.5 - 118    |
| o-Xylene     | 58.0         | µg/L  | 1    | 50.0            | <0.120           | 116  | 81.8 - 120    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 54.8          | µg/L  | 1    | 50.0            | <0.200           | 110  | 68.2 - 129    | 1   | 20           |
| Toluene      | 54.2          | µg/L  | 1    | 50.0            | <0.200           | 108  | 77.4 - 122    | 1   | 20           |
| Ethylbenzene | 55.6          | µg/L  | 1    | 50.0            | <0.140           | 111  | 80.8 - 118    | 1   | 20           |
| m,p-Xylene   | 112           | µg/L  | 1    | 100             | <0.270           | 112  | 80.5 - 118    | 2   | 20           |
| o-Xylene     | 57.4          | µg/L  | 1    | 50.0            | <0.120           | 115  | 81.8 - 120    | 1   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 49.6         | 50.4          | µg/L  | 1    | 50              | 99         | 101         | 89.8 - 118    |
| Toluene-d8                   | 50.3         | 50.4          | µg/L  | 1    | 50              | 101        | 101         | 89.9 - 110    |
| 4-Bromofluorobenzene (4-BFB) | 50.5         | 50.2          | µg/L  | 1    | 50              | 101        | 100         | 86.4 - 117    |



Report Date: July 1, 2010  
Westgate

Work Order: 10062904  
Westgate

Page Number: 9 of 9  
Hobbs, NM

**Standard (CCV-1)**

QC Batch: 71337

Date Analyzed: 2010-06-29

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | µg/L  | 50.0                  | 53.4                   | 107                         | 80 - 120                      | 2010-06-29       |
| Toluene      |      | µg/L  | 50.0                  | 52.5                   | 105                         | 80 - 120                      | 2010-06-29       |
| Ethylbenzene |      | µg/L  | 50.0                  | 55.0                   | 110                         | 80 - 120                      | 2010-06-29       |
| m,p-Xylene   |      | µg/L  | 100                   | 110                    | 110                         | 80 - 120                      | 2010-06-29       |
| o-Xylene     |      | µg/L  | 50.0                  | 56.2                   | 112                         | 80 - 120                      | 2010-06-29       |

**Standard (CCV-1)**

QC Batch: 71378

Date Analyzed: 2010-06-30

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | µg/L  | 50.0                  | 44.0                   | 88                          | 80 - 120                      | 2010-06-30       |
| Toluene      |      | µg/L  | 50.0                  | 41.7                   | 83                          | 80 - 120                      | 2010-06-30       |
| Ethylbenzene |      | µg/L  | 50.0                  | 48.3                   | 97                          | 80 - 120                      | 2010-06-30       |
| m,p-Xylene   |      | µg/L  | 100                   | 97.9                   | 98                          | 80 - 120                      | 2010-06-30       |
| o-Xylene     |      | µg/L  | 50.0                  | 50.5                   | 101                         | 80 - 120                      | 2010-06-30       |

# TraceAnalysis, Inc.

email: [lab@traceanalysis.com](mailto:lab@traceanalysis.com)

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

**BioAquatic Testing**  
2501 Mayes Rd., Ste 10C  
Carrollton, Texas 75006  
Tel (972) 242-7750

|                                          |                    |
|------------------------------------------|--------------------|
| Company Name: <i>BPC INTERNATIONAL</i>   | Phone #:           |
| Address: (Street, City, Zip)             | Fax #:             |
| Contact Person:                          | E-mail:            |
| Invoice to:<br>(If different from above) | <i>West Gate</i>   |
| Project #:                               | Project Name:      |
| Project Location (including state):      | Sampler Signature: |

[illegible][illegible]

|                                  |                                    |  |
|----------------------------------|------------------------------------|--|
| MTBE                             | 8021 / 602 / 8260 / 624            |  |
| BTEX                             | 8021 / 602 / 8260 / 624            |  |
| TPH                              | 418.1 / TX1005 / TX1005 Ext(C35)   |  |
| TPH                              | 8015 GRO / DRO / TVHC              |  |
| PAH                              | 8270 / 625                         |  |
| Total Metals                     | Ag As Ba Cd Cr Pb Se Hg 6010/200.7 |  |
| TCLP Metals                      | Ag As Ba Cd Cr Pb Se Hg            |  |
| TCLP Volatiles                   |                                    |  |
| TCLP Semi Volatiles              |                                    |  |
| TCLP Pesticides                  |                                    |  |
| RCI                              |                                    |  |
| GC/MS Vol.                       | 8260 / 624                         |  |
| GC/MS Semi. Vol.                 | 8270 / 625                         |  |
| PCB's                            | 8082 / 608                         |  |
| Pesticides                       | 8081 / 608                         |  |
| BOD, TSS, pH                     |                                    |  |
| Moisture Content                 |                                    |  |
| Cl, F, S04, NO3, NO2, Alkalinity |                                    |  |
| Na, Ca, Mg, K, TDS, EC           |                                    |  |
| Turn Around Time                 | if different from standard         |  |
| Hold                             |                                    |  |

|              |                                            |                                               |                                                                                                   |             |
|--------------|--------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------|-------------|
| T<br>S<br>R  | T<br>S<br>R                                | T<br>S<br>R                                   | T<br>S<br>R                                                                                       | T<br>S<br>R |
| 18           | 0                                          | 0                                             | 0                                                                                                 | 0           |
| LAB USE ONLY | Infect <input checked="" type="radio"/> N. | Headspace <input checked="" type="radio"/> NA | Dry Weight Basis Required<br>TRRP Report Required<br>Check if Special Reporting Limits Are Needed | REMARKS:    |

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # 671 3058211684

# TraceAnalysis, Inc.

email: [lab@traceanalysis.com](mailto:lab@traceanalysis.com)

3701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313

East Sunset Rd., Suite E  
Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

**BioAquatic Testing**  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

[illegible]

Submission of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Conditions listed on rev

Carrier #

57T 3058211684

JUL - 1 2010 29

## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: September 29, 2010

Work Order: 10092725



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 245969 | MW #10      | water  | 2010-09-23 | 10:00      | 2010-09-27    |
| 245970 | MW #8       | water  | 2010-09-23 | 11:15      | 2010-09-27    |

### Sample: 245969 - MW #10

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

### Sample: 245970 - MW #8

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79902 888•588•3443 915•585•3443 FAX 915•585•4944  
6542 Basin Street, Suite A1 Midland Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Martin Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBENC: 237019

HUB: 1752439743100-86536  
NCTRCA WFWB38444Y0909

DBE: VN 20657

## NELAP Certifications

Lubbock: T104704219-08-TX  
LELAP-02003  
Kansas E-10317

El Paso: T104704221-08-TX  
LELAP-02002

Midland: T104704392-08-TX

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: September 29, 2010

Work Order: 10092725



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 245969 | MW #10      | water  | 2010-09-23 | 10:00      | 2010-09-27    |
| 245970 | MW #8       | water  | 2010-09-23 | 11:15      | 2010-09-27    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 16 pages and shall not be reproduced except in its entirety, without written approval of

TraceAnalysis, Inc.

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive, flowing style.

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

**Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Westgate were received by TraceAnalysis, Inc. on 2010-09-27 and assigned to work order 10092725. Samples for work order 10092725 were received intact without headspace and at a temperature of 18.0 C. Samples were received on melted ice. Client gave approval to proceed with testing.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method   | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|-----------|----------|---------------|---------------------|-------------|---------------------|
| Volatiles | S 8260 C | 63454         | 2010-09-28 at 12:00 | 73948       | 2010-09-28 at 12:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10092725 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

## Analytical Report

Sample: 245969 - MW #10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 73948  
Prep Batch: 63454

Analytical Method: S 8260 C  
Date Analyzed: 2010-09-28  
Sample Preparation: 2010-09-28

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 52.9   | µg/L  | 1        | 50.0            | 106                 | 91.9 - 115         |
| Toluene-d8                   |      | 42.0   | µg/L  | 1        | 50.0            | 84                  | 83.8 - 116         |
| 4-Bromofluorobenzene (4-BFB) |      | 49.1   | µg/L  | 1        | 50.0            | 98                  | 81.2 - 109         |

Sample: 245970 - MW #8

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 73948  
Prep Batch: 63454

Analytical Method: S 8260 C  
Date Analyzed: 2010-09-28  
Sample Preparation: 2010-09-28

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 51.0   | µg/L  | 1        | 50.0            | 102                 | 91.9 - 115         |
| Toluene-d8                   |      | 42.1   | µg/L  | 1        | 50.0            | 84                  | 83.8 - 116         |
| 4-Bromofluorobenzene (4-BFB) |      | 49.0   | µg/L  | 1        | 50.0            | 98                  | 81.2 - 109         |



Report Date: September 29, 2010  
Westgate

Work Order: 10092725  
Westgate

Page Number: 5 of 16  
Hobbs, NM

Method Blank (1)      QC Batch: 73948

QC Batch: 73948  
Prep Batch: 63454

Date Analyzed: 2010-09-28  
QC Preparation: 2010-09-28

Analyzed By: KB  
Prepared By: KB

| Parameter                          | Flag | MDL<br>Result | Units | RL |
|------------------------------------|------|---------------|-------|----|
| Bromochloromethane                 |      | <0.169        | µg/L  | 1  |
| Dichlorodifluoromethane            |      | <0.145        | µg/L  | 1  |
| Chloromethane (methyl chloride)    |      | <0.164        | µg/L  | 1  |
| Vinyl Chloride                     |      | <0.110        | µg/L  | 1  |
| Bromomethane (methyl bromide)      |      | <0.540        | µg/L  | 5  |
| Chloroethane                       |      | <0.232        | µg/L  | 1  |
| Trichlorofluoromethane             |      | <0.149        | µg/L  | 1  |
| Acetone                            |      | 1.45          | µg/L  | 10 |
| Iodomethane (methyl iodide)        |      | <0.104        | µg/L  | 5  |
| Carbon Disulfide                   |      | <0.120        | µg/L  | 1  |
| Acrylonitrile                      |      | <0.189        | µg/L  | 1  |
| 2-Butanone (MEK)                   |      | <0.218        | µg/L  | 5  |
| 4-Methyl-2-pentanone (MIBK)        |      | <0.554        | µg/L  | 5  |
| 2-Hexanone                         |      | <0.863        | µg/L  | 5  |
| trans 1,4-Dichloro-2-butene        |      | <0.607        | µg/L  | 10 |
| 1,1-Dichloroethene                 |      | <0.102        | µg/L  | 1  |
| Methylene chloride                 |      | 0.330         | µg/L  | 5  |
| MTBE                               |      | <0.122        | µg/L  | 1  |
| trans-1,2-Dichloroethene           |      | <0.168        | µg/L  | 1  |
| 1,1-Dichloroethane                 |      | <0.107        | µg/L  | 1  |
| cis-1,2-Dichloroethene             |      | <0.151        | µg/L  | 1  |
| 2,2-Dichloropropane                |      | <0.167        | µg/L  | 1  |
| 1,2-Dichloroethane (EDC)           |      | <0.0890       | µg/L  | 1  |
| Chloroform                         |      | <0.121        | µg/L  | 1  |
| 1,1,1-Trichloroethane              |      | <0.170        | µg/L  | 1  |
| 1,1-Dichloropropene                |      | <0.156        | µg/L  | 1  |
| Benzene                            |      | <0.113        | µg/L  | 1  |
| Carbon Tetrachloride               |      | <0.0930       | µg/L  | 1  |
| 1,2-Dichloropropane                |      | <0.129        | µg/L  | 1  |
| Trichloroethene (TCE)              |      | <0.160        | µg/L  | 1  |
| Dibromomethane (methylene bromide) |      | <0.137        | µg/L  | 1  |
| Bromodichloromethane               |      | <0.107        | µg/L  | 1  |
| 2-Chloroethyl vinyl ether          |      | <0.257        | µg/L  | 5  |
| cis-1,3-Dichloropropene            |      | <0.109        | µg/L  | 1  |
| trans-1,3-Dichloropropene          |      | <0.181        | µg/L  | 1  |
| Toluene                            |      | <0.117        | µg/L  | 1  |
| 1,1,2-Trichloroethane              |      | <0.143        | µg/L  | 1  |
| 1,3-Dichloropropane                |      | <0.191        | µg/L  | 1  |
| Dibromochloromethane               |      | <0.118        | µg/L  | 1  |
| 1,2-Dibromoethane (EDB)            |      | <0.131        | µg/L  | 1  |
| Tetrachloroethene (PCE)            |      | <0.353        | µg/L  | 1  |

continued ...

*control spikes continued ...*

| Param                              | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Param                              | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
| Bromochloromethane                 | 56.4          | µg/L  | 1    | 50.0            | <0.169           | 113  | 76.1 - 117    |
| Dichlorodifluoromethane            | 49.9          | µg/L  | 1    | 50.0            | <0.145           | 100  | 41.1 - 168    |
| Chloromethane (methyl chloride)    | 62.5          | µg/L  | 1    | 50.0            | <0.164           | 125  | 67.1 - 159    |
| Vinyl Chloride                     | 57.3          | µg/L  | 1    | 50.0            | <0.110           | 115  | 65.6 - 149    |
| Bromomethane (methyl bromide)      | 45.9          | µg/L  | 1    | 50.0            | <0.540           | 92   | 10 - 245      |
| Chloroethane                       | 55.3          | µg/L  | 1    | 50.0            | <0.232           | 111  | 64.1 - 155    |
| Trichlorofluoromethane             | 57.4          | µg/L  | 1    | 50.0            | <0.149           | 115  | 62.8 - 137    |
| Acetone                            | 57.3          | µg/L  | 1    | 50.0            | 1.45             | 115  | 19.4 - 134    |
| Iodomethane (methyl iodide)        | 56.5          | µg/L  | 1    | 50.0            | <0.104           | 113  | 79.8 - 134    |
| Carbon Disulfide                   | 61.4          | µg/L  | 1    | 50.0            | <0.120           | 123  | 76.5 - 124    |
| Acrylonitrile                      | 59.8          | µg/L  | 1    | 50.0            | <0.189           | 120  | 71.4 - 120    |
| 2-Butanone (MEK)                   | 54.1          | µg/L  | 1    | 50.0            | <0.218           | 108  | 34.7 - 138    |
| 4-Methyl-2-pentanone (MIBK)        | 55.2          | µg/L  | 1    | 50.0            | <0.554           | 110  | 71.1 - 119    |
| 2-Hexanone                         | 49.0          | µg/L  | 1    | 50.0            | <0.863           | 98   | 51.2 - 135    |
| trans 1,4-Dichloro-2-butene        | 49.1          | µg/L  | 1    | 50.0            | <0.607           | 98   | 53.1 - 134    |
| 1,1-Dichloroethene                 | 58.0          | µg/L  | 1    | 50.0            | <0.102           | 116  | 78.1 - 125    |
| Methylene chloride                 | 56.0          | µg/L  | 1    | 50.0            | 0.33             | 112  | 71 - 125      |
| MTBE                               | 57.6          | µg/L  | 1    | 50.0            | <0.122           | 115  | 69.1 - 127    |
| trans-1,2-Dichloroethene           | 58.4          | µg/L  | 1    | 50.0            | <0.168           | 117  | 69.2 - 125    |
| 1,1-Dichloroethane                 | 59.7          | µg/L  | 1    | 50.0            | <0.107           | 119  | 80.3 - 126    |
| cis-1,2-Dichloroethene             | 58.0          | µg/L  | 1    | 50.0            | <0.151           | 116  | 72.2 - 122    |
| 2,2-Dichloropropane                | 61.9          | µg/L  | 1    | 50.0            | <0.167           | 124  | 60 - 144      |
| 1,2-Dichloroethane (EDC)           | 57.0          | µg/L  | 1    | 50.0            | <0.0890          | 114  | 78 - 118      |
| Chloroform                         | 56.2          | µg/L  | 1    | 50.0            | <0.121           | 112  | 75.3 - 117    |
| 1,1,1-Trichloroethane              | 61.2          | µg/L  | 1    | 50.0            | <0.170           | 122  | 75.8 - 128    |
| 1,1-Dichloropropene                | 58.6          | µg/L  | 1    | 50.0            | <0.156           | 117  | 69.3 - 122    |
| Benzene                            | 59.6          | µg/L  | 1    | 50.0            | <0.113           | 119  | 71 - 129      |
| Carbon Tetrachloride               | 60.2          | µg/L  | 1    | 50.0            | <0.0930          | 120  | 71.5 - 124    |
| 1,2-Dichloropropane                | 59.0          | µg/L  | 1    | 50.0            | <0.129           | 118  | 76 - 122      |
| Trichloroethene (TCE)              | 56.2          | µg/L  | 1    | 50.0            | <0.160           | 112  | 54.8 - 115    |
| Dibromomethane (methylene bromide) | 52.0          | µg/L  | 1    | 50.0            | <0.137           | 104  | 46 - 123      |
| Bromodichloromethane               | 57.1          | µg/L  | 1    | 50.0            | <0.107           | 114  | 75.5 - 117    |
| 2-Chloroethyl vinyl ether          | 53.1          | µg/L  | 1    | 50.0            | <0.257           | 106  | 50.7 - 146    |
| cis-1,3-Dichloropropene            | 58.8          | µg/L  | 1    | 50.0            | <0.109           | 118  | 79.3 - 121    |
| trans-1,3-Dichloropropene          | 56.5          | µg/L  | 1    | 50.0            | <0.181           | 113  | 73.5 - 116    |
| Toluene                            | 47.4          | µg/L  | 1    | 50.0            | <0.117           | 95   | 85.5 - 112    |
| 1,1,2-Trichloroethane              | 45.1          | µg/L  | 1    | 50.0            | <0.143           | 90   | 83.1 - 111    |
| 1,3-Dichloropropane                | 46.0          | µg/L  | 1    | 50.0            | <0.191           | 92   | 84.6 - 112    |
| Dibromochloromethane               | 47.2          | µg/L  | 1    | 50.0            | <0.118           | 94   | 78.1 - 114    |
| 1,2-Dibromoethane (EDB)            | 47.1          | µg/L  | 1    | 50.0            | <0.131           | 94   | 84.1 - 112    |
| Tetrachloroethene (PCE)            | 41.5          | µg/L  | 1    | 50.0            | <0.353           | 83   | 30.8 - 137    |

*continued ...*

control spikes continued ...

| Param                       | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Chlorobenzene               | 47.0          | µg/L  | 1    | 50.0            | <0.135           | 94   | 87.4 - 113    |
| 1,1,1,2-Tetrachloroethane   | 49.4          | µg/L  | 1    | 50.0            | <0.263           | 99   | 83.3 - 120    |
| Ethylbenzene                | 46.7          | µg/L  | 1    | 50.0            | <0.174           | 93   | 75.8 - 110    |
| m,p-Xylene                  | 97.4          | µg/L  | 1    | 100             | <0.220           | 97   | 84 - 110      |
| Bromoform                   | 46.4          | µg/L  | 1    | 50.0            | <0.385           | 93   | 67.4 - 113    |
| Styrene                     | 46.6          | µg/L  | 1    | 50.0            | <0.413           | 93   | 85.8 - 117    |
| o-Xylene                    | 48.8          | µg/L  | 1    | 50.0            | <0.115           | 98   | 81.8 - 110    |
| 1,1,2,2-Tetrachloroethane   | 44.0          | µg/L  | 1    | 50.0            | <0.766           | 88   | 63.8 - 112    |
| 2-Chlorotoluene             | 45.3          | µg/L  | 1    | 50.0            | <0.132           | 91   | 73.1 - 123    |
| 1,2,3-Trichloropropane      | 42.6          | µg/L  | 1    | 50.0            | <0.599           | 85   | 75.6 - 105    |
| Isopropylbenzene            | 48.3          | µg/L  | 1    | 50.0            | <0.145           | 97   | 86.5 - 112    |
| Bromobenzene                | 41.2          | µg/L  | 1    | 50.0            | <0.266           | 82   | 74.7 - 122    |
| n-Propylbenzene             | 45.6          | µg/L  | 1    | 50.0            | <0.136           | 91   | 76.2 - 124    |
| 1,3,5-Trimethylbenzene      | 46.4          | µg/L  | 1    | 50.0            | <0.124           | 93   | 76.5 - 118    |
| tert-Butylbenzene           | 44.4          | µg/L  | 1    | 50.0            | <0.136           | 89   | 76.8 - 123    |
| 1,2,4-Trimethylbenzene      | 42.7          | µg/L  | 1    | 50.0            | <0.114           | 85   | 60.6 - 115    |
| 1,4-Dichlorobenzene (para)  | 48.5          | µg/L  | 1    | 50.0            | <0.230           | 97   | 59.1 - 139    |
| sec-Butylbenzene            | 46.0          | µg/L  | 1    | 50.0            | <0.452           | 92   | 76.9 - 122    |
| 1,3-Dichlorobenzene (meta)  | 41.5          | µg/L  | 1    | 50.0            | <0.214           | 83   | 75 - 110      |
| p-Isopropyltoluene          | 46.2          | µg/L  | 1    | 50.0            | <0.126           | 92   | 75.2 - 122    |
| 4-Chlorotoluene             | 44.8          | µg/L  | 1    | 50.0            | <0.161           | 90   | 77.7 - 118    |
| 1,2-Dichlorobenzene (ortho) | 44.4          | µg/L  | 1    | 50.0            | <0.357           | 89   | 73.1 - 117    |
| n-Butylbenzene              | 46.9          | µg/L  | 1    | 50.0            | 0.165            | 94   | 71 - 125      |
| 1,2-Dibromo-3-chloropropane | 36.3          | µg/L  | 1    | 50.0            | <0.977           | 73   | 64.8 - 118    |
| 1,2,3-Trichlorobenzene      | 44.8          | µg/L  | 1    | 50.0            | <0.400           | 90   | 58.4 - 127    |
| 1,2,4-Trichlorobenzene      | 46.5          | µg/L  | 1    | 50.0            | <0.227           | 93   | 67.5 - 129    |
| Naphthalene                 | 41.3          | µg/L  | 1    | 50.0            | <0.672           | 83   | 62 - 126      |
| Hexachlorobutadiene         | 45.1          | µg/L  | 1    | 50.0            | <0.198           | 90   | 57.7 - 119    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param                           | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|---------------------------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Bromochloromethane              | 57.8           | µg/L  | 1    | 50.0            | <0.169           | 116  | 76.1 - 117    | 2   | 20           |
| Dichlorodifluoromethane         | 49.1           | µg/L  | 1    | 50.0            | <0.145           | 98   | 41.1 - 168    | 2   | 20           |
| Chloromethane (methyl chloride) | 60.7           | µg/L  | 1    | 50.0            | <0.164           | 121  | 67.1 - 159    | 3   | 20           |
| Vinyl Chloride                  | 56.9           | µg/L  | 1    | 50.0            | <0.110           | 114  | 65.6 - 149    | 1   | 20           |
| Bromomethane (methyl bromide)   | 40.1           | µg/L  | 1    | 50.0            | <0.540           | 80   | 10 - 245      | 14  | 20           |
| Chloroethane                    | 55.4           | µg/L  | 1    | 50.0            | <0.232           | 111  | 64.1 - 155    | 0   | 20           |
| Trichlorofluoromethane          | 57.5           | µg/L  | 1    | 50.0            | <0.149           | 115  | 62.8 - 137    | 0   | 20           |
| Acetone                         | 58.6           | µg/L  | 1    | 50.0            | 1.45             | 117  | 19.4 - 134    | 2   | 20           |
| Iodomethane (methyl iodide)     | 57.6           | µg/L  | 1    | 50.0            | <0.104           | 115  | 79.8 - 134    | 2   | 20           |
| Carbon Disulfide                | 60.8           | µg/L  | 1    | 50.0            | <0.120           | 122  | 76.5 - 124    | 1   | 20           |
| Acrylonitrile                   | 60.0           | µg/L  | 1    | 50.0            | <0.189           | 120  | 71.4 - 120    | 0   | 20           |
| 2-Butanone (MEK)                | 55.9           | µg/L  | 1    | 50.0            | <0.218           | 112  | 34.7 - 138    | 3   | 20           |

continued ...

control spikes continued ...

| Param                              | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Limit      | RPD | RPD<br>Limit |
|------------------------------------|----------------|-------|------|-----------------|------------------|--------------|------------|-----|--------------|
| 4-Methyl-2-pentanone (MIBK)        | 58.3           | µg/L  | 1    | 50.0            | <0.554           | 117          | 71.1 - 119 | 6   | 20           |
| 2-Hexanone                         | 52.1           | µg/L  | 1    | 50.0            | <0.863           | 104          | 51.2 - 135 | 6   | 20           |
| trans 1,4-Dichloro-2-butene        | 49.9           | µg/L  | 1    | 50.0            | <0.607           | 100          | 53.1 - 134 | 2   | 20           |
| 1,1-Dichloroethene                 | 58.4           | µg/L  | 1    | 50.0            | <0.102           | 117          | 78.1 - 125 | 1   | 20           |
| Methylene chloride                 | 56.2           | µg/L  | 1    | 50.0            | 0.33             | 112          | 71 - 125   | 0   | 20           |
| MTBE                               | 58.2           | µg/L  | 1    | 50.0            | <0.122           | 116          | 69.1 - 127 | 1   | 20           |
| trans-1,2-Dichloroethene           | 59.7           | µg/L  | 1    | 50.0            | <0.168           | 119          | 69.2 - 125 | 2   | 20           |
| 1,1-Dichloroethane                 | 60.0           | µg/L  | 1    | 50.0            | <0.107           | 120          | 80.3 - 126 | 0   | 20           |
| cis-1,2-Dichloroethene             | 58.6           | µg/L  | 1    | 50.0            | <0.151           | 117          | 72.2 - 122 | 1   | 20           |
| 2,2-Dichloropropane                | 62.6           | µg/L  | 1    | 50.0            | <0.167           | 125          | 60 - 144   | 1   | 20           |
| 1,2-Dichloroethane (EDC)           | 57.8           | µg/L  | 1    | 50.0            | <0.0890          | 116          | 78 - 118   | 1   | 20           |
| Chloroform                         | 57.6           | µg/L  | 1    | 50.0            | <0.121           | 115          | 75.3 - 117 | 2   | 20           |
| 1,1,1-Trichloroethane              | 62.1           | µg/L  | 1    | 50.0            | <0.170           | 124          | 75.8 - 128 | 1   | 20           |
| 1,1-Dichloropropene                | 61.8           | µg/L  | 1    | 50.0            | <0.156           | 124          | 69.3 - 122 | 5   | 20           |
| Benzene                            | 60.4           | µg/L  | 1    | 50.0            | <0.113           | 121          | 71 - 129   | 1   | 20           |
| Carbon Tetrachloride               | 61.0           | µg/L  | 1    | 50.0            | <0.0930          | 122          | 71.5 - 124 | 1   | 20           |
| 1,2-Dichloropropane                | 59.6           | µg/L  | 1    | 50.0            | <0.129           | 119          | 76 - 122   | 1   | 20           |
| Trichloroethene (TCE)              | 58.5           | µg/L  | 1    | 50.0            | <0.160           | 117          | 54.8 - 115 | 4   | 20           |
| Dibromomethane (methylene bromide) | 55.2           | µg/L  | 1    | 50.0            | <0.137           | 110          | 46 - 123   | 6   | 20           |
| Bromodichloromethane               | 58.1           | µg/L  | 1    | 50.0            | <0.107           | 116          | 75.5 - 117 | 2   | 20           |
| 2-Chloroethyl vinyl ether          | 54.8           | µg/L  | 1    | 50.0            | <0.257           | 110          | 50.7 - 146 | 3   | 20           |
| cis-1,3-Dichloropropene            | 61.2           | µg/L  | 1    | 50.0            | <0.109           | 122          | 79.3 - 121 | 4   | 20           |
| trans-1,3-Dichloropropene          | 59.1           | µg/L  | 1    | 50.0            | <0.181           | 118          | 73.5 - 116 | 4   | 20           |
| Toluene                            | 49.0           | µg/L  | 1    | 50.0            | <0.117           | 98           | 85.5 - 112 | 3   | 20           |
| 1,1,2-Trichloroethane              | 47.4           | µg/L  | 1    | 50.0            | <0.143           | 95           | 83.1 - 111 | 5   | 20           |
| 1,3-Dichloropropane                | 47.4           | µg/L  | 1    | 50.0            | <0.191           | 95           | 84.6 - 112 | 3   | 20           |
| Dibromochloromethane               | 47.8           | µg/L  | 1    | 50.0            | <0.118           | 96           | 78.1 - 114 | 1   | 20           |
| 1,2-Dibromoethane (EDB)            | 49.4           | µg/L  | 1    | 50.0            | <0.131           | 99           | 84.1 - 112 | 5   | 20           |
| Tetrachloroethene (PCE)            | 54.9           | µg/L  | 1    | 50.0            | <0.353           | 110          | 30.8 - 137 | 28  | 20           |
| Chlorobenzene                      | 49.4           | µg/L  | 1    | 50.0            | <0.135           | 99           | 87.4 - 113 | 5   | 20           |
| 1,1,1,2-Tetrachloroethane          | 49.0           | µg/L  | 1    | 50.0            | <0.263           | 98           | 83.3 - 120 | 1   | 20           |
| Ethylbenzene                       | 48.4           | µg/L  | 1    | 50.0            | <0.174           | 97           | 75.8 - 110 | 4   | 20           |
| m,p-Xylene                         | 101            | µg/L  | 1    | 100             | <0.220           | 101          | 84 - 110   | 4   | 20           |
| Bromoform                          | 47.4           | µg/L  | 1    | 50.0            | <0.385           | 95           | 67.4 - 113 | 2   | 20           |
| Styrene                            | 47.8           | µg/L  | 1    | 50.0            | <0.413           | 96           | 85.8 - 117 | 2   | 20           |
| o-Xylene                           | 49.8           | µg/L  | 1    | 50.0            | <0.115           | 100          | 81.8 - 110 | 2   | 20           |
| 1,1,2,2-Tetrachloroethane          | 44.6           | µg/L  | 1    | 50.0            | <0.766           | 89           | 63.8 - 112 | 1   | 20           |
| 2-Chlorotoluene                    | 44.4           | µg/L  | 1    | 50.0            | <0.132           | 89           | 73.1 - 123 | 2   | 20           |
| 1,2,3-Trichloropropane             | 45.1           | µg/L  | 1    | 50.0            | <0.599           | 90           | 75.6 - 105 | 6   | 20           |
| Isopropylbenzene                   | 49.6           | µg/L  | 1    | 50.0            | <0.145           | 99           | 86.5 - 112 | 3   | 20           |

continued ...

<sup>1</sup>LCSD analyte out of range. LCS/LCSD has a RPD within limits. Therefore, LCS shows extraction occurred properly.

<sup>2</sup>LCSD analyte out of range. LCS/LCSD has a RPD within limits. Therefore, LCS shows extraction occurred properly.

<sup>3</sup>LCSD analyte out of range. LCS/LCSD has a RPD within limits. Therefore, LCS shows extraction occurred properly.

<sup>4</sup>LCSD analyte out of range. LCS/LCSD has a RPD within limits. Therefore, LCS shows extraction occurred properly.

<sup>5</sup>RPD outside RPD control limits. Analyte not detected in sample. •

control spikes continued ...

| Param                       | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Bromobenzene                | 41.7          | µg/L  | 1    | 50.0            | <0.266           | 83   | 74.7 - 122    | 1   | 20           |
| n-Propylbenzene             | 44.9          | µg/L  | 1    | 50.0            | <0.136           | 90   | 76.2 - 124    | 2   | 20           |
| 1,3,5-Trimethylbenzene      | 44.9          | µg/L  | 1    | 50.0            | <0.124           | 90   | 76.5 - 118    | 3   | 20           |
| tert-Butylbenzene           | 44.1          | µg/L  | 1    | 50.0            | <0.136           | 88   | 76.8 - 123    | 1   | 20           |
| 1,2,4-Trimethylbenzene      | 44.8          | µg/L  | 1    | 50.0            | <0.114           | 90   | 60.6 - 115    | 5   | 20           |
| 1,4-Dichlorobenzene (para)  | 47.6          | µg/L  | 1    | 50.0            | <0.230           | 95   | 59.1 - 139    | 2   | 20           |
| sec-Butylbenzene            | 46.0          | µg/L  | 1    | 50.0            | <0.452           | 92   | 76.9 - 122    | 0   | 20           |
| 1,3-Dichlorobenzene (meta)  | 40.9          | µg/L  | 1    | 50.0            | <0.214           | 82   | 75 - 110      | 1   | 20           |
| p-Isopropyltoluene          | 45.5          | µg/L  | 1    | 50.0            | <0.126           | 91   | 75.2 - 122    | 2   | 20           |
| 4-Chlorotoluene             | 45.6          | µg/L  | 1    | 50.0            | <0.161           | 91   | 77.7 - 118    | 2   | 20           |
| 1,2-Dichlorobenzene (ortho) | 44.4          | µg/L  | 1    | 50.0            | <0.357           | 89   | 73.1 - 117    | 0   | 20           |
| n-Butylbenzene              | 45.3          | µg/L  | 1    | 50.0            | 0.165            | 91   | 71 - 125      | 4   | 20           |
| 1,2-Dibromo-3-chloropropane | 36.2          | µg/L  | 1    | 50.0            | <0.977           | 72   | 64.8 - 118    | 0   | 20           |
| 1,2,3-Trichlorobenzene      | 44.0          | µg/L  | 1    | 50.0            | <0.400           | 88   | 58.4 - 127    | 2   | 20           |
| 1,2,4-Trichlorobenzene      | 46.6          | µg/L  | 1    | 50.0            | <0.227           | 93   | 67.5 - 129    | 0   | 20           |
| Naphthalene                 | 40.7          | µg/L  | 1    | 50.0            | <0.672           | 81   | 62 - 126      | 2   | 20           |
| Hexachlorobutadiene         | 44.4          | µg/L  | 1    | 50.0            | <0.198           | 89   | 57.7 - 119    | 2   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Dibromofluoromethane         | 51.9          | 52.1          | µg/L  | 1    | 50.0            | 104         | 104         | 92.4 - 113    |
| Toluene-d8                   | 41.9          | 42.6          | µg/L  | 1    | 50.0            | 84          | 85          | 83.2 - 114    |
| 4-Bromofluorobenzene (4-BFB) | 49.3          | 50.7          | µg/L  | 1    | 50.0            | 99          | 101         | 80.6 - 111    |

Matrix Spike (MS-1) Spiked Sample: 245630

QC Batch: 73948  
Prep Batch: 63454

Date Analyzed: 2010-09-28  
QC Preparation: 2010-09-28

Analyzed By: KB  
Prepared By: KB

| Param                           | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|---------------------------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Bromochloromethane              | 48.8         | µg/L  | 1    | 50.0            | <0.169           | 98   | 73.5 - 117    |
| Dichlorodifluoromethane         | 40.0         | µg/L  | 1    | 50.0            | <0.145           | 80   | 22.9 - 166    |
| Chloromethane (methyl chloride) | 51.6         | µg/L  | 1    | 50.0            | <0.164           | 103  | 53.3 - 158    |
| Vinyl Chloride                  | 49.0         | µg/L  | 1    | 50.0            | <0.110           | 98   | 55.3 - 148    |
| Bromomethane (methyl bromide)   | 35.2         | µg/L  | 1    | 50.0            | <0.540           | 70   | 10 - 307      |
| Chloroethane                    | 48.2         | µg/L  | 1    | 50.0            | <0.232           | 96   | 51.4 - 166    |
| Trichlorofluoromethane          | 45.2         | µg/L  | 1    | 50.0            | <0.149           | 90   | 48.3 - 136    |
| Acetone                         | 22.3         | µg/L  | 1    | 50.0            | <0.893           | 45   | 30.6 - 72.3   |
| Iodomethane (methyl iodide)     | 52.0         | µg/L  | 1    | 50.0            | <0.104           | 104  | 65.6 - 144    |
| Carbon Disulfide                | 53.8         | µg/L  | 1    | 50.0            | <0.120           | 108  | 72.3 - 124    |
| Acrylonitrile                   | 51.1         | µg/L  | 1    | 50.0            | <0.189           | 102  | 55.7 - 133    |

continued ...

matrix spikes continued ...

| Param                              | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------------------|--------------|-------|------|-----------------|------------------|------|---------------|
| 2-Butanone (MEK)                   | 28.6         | µg/L  | 1    | 50.0            | <0.218           | 57   | 33.8 - 107    |
| 4-Methyl-2-pentanone (MIBK)        | 49.8         | µg/L  | 1    | 50.0            | <0.554           | 100  | 60 - 135      |
| 2-Hexanone                         | 32.2         | µg/L  | 1    | 50.0            | <0.863           | 64   | 48.8 - 127    |
| trans 1,4-Dichloro-2-butene        | 32.2         | µg/L  | 1    | 50.0            | <0.607           | 64   | 10 - 152      |
| 1,1-Dichloroethene                 | 49.9         | µg/L  | 1    | 50.0            | <0.102           | 100  | 74.7 - 124    |
| Methylene chloride                 | 50.6         | µg/L  | 1    | 50.0            | <0.270           | 101  | 70.7 - 117    |
| MTBE                               | 49.1         | µg/L  | 1    | 50.0            | <0.122           | 98   | 67.1 - 128    |
| trans-1,2-Dichloroethene           | 51.3         | µg/L  | 1    | 50.0            | <0.168           | 103  | 69.5 - 127    |
| 1,1-Dichloroethane                 | 53.5         | µg/L  | 1    | 50.0            | <0.107           | 107  | 76.1 - 129    |
| cis-1,2-Dichloroethene             | 50.0         | µg/L  | 1    | 50.0            | <0.151           | 100  | 69.4 - 121    |
| 2,2-Dichloropropane                | 39.1         | µg/L  | 1    | 50.0            | <0.167           | 78   | 27.6 - 135    |
| 1,2-Dichloroethane (EDC)           | 49.4         | µg/L  | 1    | 50.0            | <0.0890          | 99   | 74.5 - 120    |
| Chloroform                         | 48.8         | µg/L  | 1    | 50.0            | <0.121           | 98   | 75.4 - 112    |
| 1,1,1-Trichloroethane              | 52.0         | µg/L  | 1    | 50.0            | <0.170           | 104  | 73.2 - 126    |
| 1,1-Dichloropropene                | 48.7         | µg/L  | 1    | 50.0            | <0.156           | 97   | 65.9 - 122    |
| Benzene                            | 53.6         | µg/L  | 1    | 50.0            | 0.269            | 107  | 67.4 - 128    |
| Carbon Tetrachloride               | 50.6         | µg/L  | 1    | 50.0            | <0.0930          | 101  | 68.5 - 119    |
| 1,2-Dichloropropane                | 53.3         | µg/L  | 1    | 50.0            | <0.129           | 107  | 72.8 - 123    |
| Trichloroethene (TCE)              | 47.1         | µg/L  | 1    | 50.0            | <0.160           | 94   | 54.9 - 108    |
| Dibromomethane (methylene bromide) | 44.2         | µg/L  | 1    | 50.0            | <0.137           | 88   | 41.9 - 120    |
| Bromodichloromethane               | 48.7         | µg/L  | 1    | 50.0            | <0.107           | 97   | 75.3 - 115    |
| 2-Chloroethyl vinyl ether          | 6 <0.257     | µg/L  | 1    | 50.0            | <0.257           | 0    | 70 - 130      |
| cis-1,3-Dichloropropene            | 48.7         | µg/L  | 1    | 50.0            | <0.109           | 97   | 69.9 - 121    |
| trans-1,3-Dichloropropene          | 49.9         | µg/L  | 1    | 50.0            | <0.181           | 100  | 66.5 - 120    |
| Toluene                            | 41.8         | µg/L  | 1    | 50.0            | <0.117           | 84   | 83.1 - 113    |
| 1,1,2-Trichloroethane              | 39.6         | µg/L  | 1    | 50.0            | <0.143           | 79   | 70 - 120      |
| 1,3-Dichloropropane                | 7 37.2       | µg/L  | 1    | 50.0            | <0.191           | 74   | 76.4 - 118    |
| Dibromochloromethane               | 38.4         | µg/L  | 1    | 50.0            | <0.118           | 77   | 70.8 - 120    |
| 1,2-Dibromoethane (EDB)            | 8 40.8       | µg/L  | 1    | 50.0            | <0.131           | 82   | 82.9 - 115    |
| Tetrachloroethene (PCE)            | 28.5         | µg/L  | 1    | 50.0            | <0.353           | 57   | 42.1 - 81.4   |
| Chlorobenzene                      | 40.8         | µg/L  | 1    | 50.0            | <0.135           | 82   | 81.6 - 116    |
| 1,1,1,2-Tetrachloroethane          | 42.5         | µg/L  | 1    | 50.0            | <0.263           | 85   | 78.1 - 119    |
| Ethylbenzene                       | 39.4         | µg/L  | 1    | 50.0            | 0.498            | 78   | 76.2 - 105    |
| m,p-Xylene                         | 84.4         | µg/L  | 1    | 100             | <0.220           | 84   | 74.6 - 114    |
| Bromoform                          | 38.9         | µg/L  | 1    | 50.0            | <0.385           | 78   | 58.9 - 118    |
| Styrene                            | 39.0         | µg/L  | 1    | 50.0            | <0.413           | 78   | 10 - 188      |
| o-Xylene                           | 43.0         | µg/L  | 1    | 50.0            | <0.115           | 86   | 71.8 - 121    |
| 1,1,2,2-Tetrachloroethane          | 38.6         | µg/L  | 1    | 50.0            | <0.766           | 77   | 73.3 - 106    |
| 2-Chlorotoluene                    | 39.8         | µg/L  | 1    | 50.0            | <0.132           | 80   | 72.4 - 123    |
| 1,2,3-Trichloropropane             | 9 36.9       | µg/L  | 1    | 50.0            | <0.599           | 74   | 75.4 - 105    |

continued ...

<sup>6</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>7</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>8</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>9</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

| Param                       | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Isopropylbenzene            | 45.2         | µg/L  | 1    | 50.0            | 3.89             | 83   | 81.9 - 112    |
| Bromobenzene                | 37.5         | µg/L  | 1    | 50.0            | <0.266           | 75   | 69.8 - 127    |
| n-Propylbenzene             | 42.2         | µg/L  | 1    | 50.0            | 3.79             | 77   | 73.3 - 124    |
| 1,3,5-Trimethylbenzene      | 39.5         | µg/L  | 1    | 50.0            | <0.124           | 79   | 72 - 118      |
| tert-Butylbenzene           | 42.9         | µg/L  | 1    | 50.0            | 5.71             | 74   | 74.6 - 122    |
| 1,2,4-Trimethylbenzene      | 34.6         | µg/L  | 1    | 50.0            | <0.114           | 69   | 67.8 - 88.2   |
| 1,4-Dichlorobenzene (para)  | 39.8         | µg/L  | 1    | 50.0            | <0.230           | 80   | 55.2 - 136    |
| sec-Butylbenzene            | 41.3         | µg/L  | 1    | 50.0            | 2.8              | 77   | 74 - 122      |
| 1,3-Dichlorobenzene (meta)  | 35.6         | µg/L  | 1    | 50.0            | <0.214           | 71   | 74.1 - 107    |
| p-Isopropyltoluene          | 38.1         | µg/L  | 1    | 50.0            | <0.126           | 76   | 71.9 - 120    |
| 4-Chlorotoluene             | 39.6         | µg/L  | 1    | 50.0            | <0.161           | 79   | 74.8 - 120    |
| 1,2-Dichlorobenzene (ortho) | 38.3         | µg/L  | 1    | 50.0            | <0.357           | 77   | 69.5 - 118    |
| n-Butylbenzene              | 37.9         | µg/L  | 1    | 50.0            | 0.132            | 76   | 68.6 - 121    |
| 1,2-Dibromo-3-chloropropane | 34.6         | µg/L  | 1    | 50.0            | <0.977           | 69   | 44.9 - 140    |
| 1,2,3-Trichlorobenzene      | 40.5         | µg/L  | 1    | 50.0            | <0.400           | 81   | 44.9 - 133    |
| 1,2,4-Trichlorobenzene      | 40.8         | µg/L  | 1    | 50.0            | <0.227           | 82   | 59.1 - 129    |
| Naphthalene                 | 74.1         | µg/L  | 1    | 50.0            | 33.8             | 81   | 43.9 - 145    |
| Hexachlorobutadiene         | 32.5         | µg/L  | 1    | 50.0            | <0.198           | 65   | 52.7 - 109    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param                           | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|---------------------------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Bromochloromethane              | 54.6          | µg/L  | 1    | 50.0            | <0.169           | 109  | 73.5 - 117    | 11  | 20           |
| Dichlorodifluoromethane         | 45.8          | µg/L  | 1    | 50.0            | <0.145           | 92   | 22.9 - 166    | 14  | 20           |
| Chloromethane (methyl chloride) | 61.0          | µg/L  | 1    | 50.0            | <0.164           | 122  | 53.3 - 158    | 17  | 20           |
| Vinyl Chloride                  | 55.2          | µg/L  | 1    | 50.0            | <0.110           | 110  | 55.3 - 148    | 12  | 20           |
| Bromomethane (methyl bromide)   | 44.6          | µg/L  | 1    | 50.0            | <0.540           | 89   | 10 - 307      | 24  | 20           |
| Chloroethane                    | 53.2          | µg/L  | 1    | 50.0            | <0.232           | 106  | 51.4 - 166    | 10  | 20           |
| Trichlorofluoromethane          | 52.4          | µg/L  | 1    | 50.0            | <0.149           | 105  | 48.3 - 136    | 15  | 20           |
| Acetone                         | 25.4          | µg/L  | 1    | 50.0            | <0.893           | 51   | 30.6 - 72.3   | 13  | 20           |
| Iodomethane (methyl iodide)     | 57.7          | µg/L  | 1    | 50.0            | <0.104           | 115  | 65.6 - 144    | 10  | 20           |
| Carbon Disulfide                | 60.4          | µg/L  | 1    | 50.0            | <0.120           | 121  | 72.3 - 124    | 12  | 20           |
| Acrylonitrile                   | 58.0          | µg/L  | 1    | 50.0            | <0.189           | 116  | 55.7 - 133    | 13  | 20           |
| 2-Butanone (MEK)                | 32.5          | µg/L  | 1    | 50.0            | <0.218           | 65   | 33.8 - 107    | 13  | 20           |
| 4-Methyl-2-pentanone (MIBK)     | 56.5          | µg/L  | 1    | 50.0            | <0.554           | 113  | 60 - 135      | 13  | 20           |
| 2-Hexanone                      | 37.4          | µg/L  | 1    | 50.0            | <0.863           | 75   | 48.8 - 127    | 15  | 20           |
| trans 1,4-Dichloro-2-butene     | 34.6          | µg/L  | 1    | 50.0            | <0.607           | 69   | 10 - 152      | 7   | 20           |
| 1,1-Dichloroethene              | 55.5          | µg/L  | 1    | 50.0            | <0.102           | 111  | 74.7 - 124    | 11  | 20           |
| Methylene chloride              | 56.1          | µg/L  | 1    | 50.0            | <0.270           | 112  | 70.7 - 117    | 10  | 20           |
| MTBE                            | 56.7          | µg/L  | 1    | 50.0            | <0.122           | 113  | 67.1 - 128    | 14  | 20           |
| trans-1,2-Dichloroethene        | 57.1          | µg/L  | 1    | 50.0            | <0.168           | 114  | 69.5 - 127    | 11  | 20           |

continued ...

<sup>10</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>11</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>12</sup>MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

| Param                              | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------------------|---------------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
| 1,1-Dichloroethane                 | 58.9          | µg/L  | 1    | 50.0            | <0.107           | 118          | 76.1 - 129    | 10  | 20           |
| cis-1,2-Dichloroethene             | 55.0          | µg/L  | 1    | 50.0            | <0.151           | 110          | 69.4 - 121    | 10  | 20           |
| 2,2-Dichloropropane                | 43.7          | µg/L  | 1    | 50.0            | <0.167           | 87           | 27.6 - 135    | 11  | 20           |
| 1,2-Dichloroethane (EDC)           | 54.8          | µg/L  | 1    | 50.0            | <0.0890          | 110          | 74.5 - 120    | 10  | 20           |
| Chloroform                         | 54.4          | µg/L  | 1    | 50.0            | <0.121           | 109          | 75.4 - 112    | 11  | 20           |
| 1,1,1-Trichloroethane              | 58.1          | µg/L  | 1    | 50.0            | <0.170           | 116          | 73.2 - 126    | 11  | 20           |
| 1,1-Dichloropropene                | 59.0          | µg/L  | 1    | 50.0            | <0.156           | 118          | 65.9 - 122    | 19  | 20           |
| Benzene                            | 58.5          | µg/L  | 1    | 50.0            | 0.269            | 116          | 67.4 - 128    | 9   | 20           |
| Carbon Tetrachloride               | 55.0          | µg/L  | 1    | 50.0            | <0.0930          | 110          | 68.5 - 119    | 8   | 20           |
| 1,2-Dichloropropane                | 56.2          | µg/L  | 1    | 50.0            | <0.129           | 112          | 72.8 - 123    | 5   | 20           |
| Trichloroethene (TCE)              | 54.0          | µg/L  | 1    | 50.0            | <0.160           | 108          | 54.9 - 108    | 14  | 20           |
| Dibromomethane (methylene bromide) | 46.9          | µg/L  | 1    | 50.0            | <0.137           | 94           | 41.9 - 120    | 6   | 20           |
| Bromodichloromethane               | 53.9          | µg/L  | 1    | 50.0            | <0.107           | 108          | 75.3 - 115    | 10  | 20           |
| 2-Chloroethyl vinyl ether          | <0.257        | µg/L  | 1    | 50.0            | <0.257           | 0            | 70 - 130      | 0   | 20           |
| cis-1,3-Dichloropropene            | 55.0          | µg/L  | 1    | 50.0            | <0.109           | 110          | 69.9 - 121    | 12  | 20           |
| trans-1,3-Dichloropropene          | 56.2          | µg/L  | 1    | 50.0            | <0.181           | 112          | 66.5 - 120    | 12  | 20           |
| Toluene                            | 47.4          | µg/L  | 1    | 50.0            | <0.117           | 95           | 83.1 - 113    | 13  | 20           |
| 1,1,2-Trichloroethane              | 44.9          | µg/L  | 1    | 50.0            | <0.143           | 90           | 70 - 120      | 12  | 20           |
| 1,3-Dichloropropane                | 42.4          | µg/L  | 1    | 50.0            | <0.191           | 85           | 76.4 - 118    | 13  | 20           |
| Dibromochloromethane               | 44.7          | µg/L  | 1    | 50.0            | <0.118           | 89           | 70.8 - 120    | 15  | 20           |
| 1,2-Dibromoethane (EDB)            | 46.3          | µg/L  | 1    | 50.0            | <0.131           | 93           | 82.9 - 115    | 13  | 20           |
| Tetrachloroethene (PCE)            | 33.2          | µg/L  | 1    | 50.0            | <0.353           | 66           | 42.1 - 81.4   | 15  | 20           |
| Chlorobenzene                      | 46.2          | µg/L  | 1    | 50.0            | <0.135           | 92           | 81.6 - 116    | 12  | 20           |
| 1,1,1,2-Tetrachloroethane          | 47.0          | µg/L  | 1    | 50.0            | <0.263           | 94           | 78.1 - 119    | 10  | 20           |
| Ethylbenzene                       | 44.3          | µg/L  | 1    | 50.0            | 0.498            | 88           | 76.2 - 105    | 12  | 20           |
| m,p-Xylene                         | 95.7          | µg/L  | 1    | 100             | <0.220           | 96           | 74.6 - 114    | 12  | 20           |
| Bromoform                          | 43.4          | µg/L  | 1    | 50.0            | <0.385           | 87           | 58.9 - 118    | 11  | 20           |
| Styrene                            | 44.7          | µg/L  | 1    | 50.0            | <0.413           | 89           | 10 - 188      | 14  | 20           |
| o-Xylene                           | 48.2          | µg/L  | 1    | 50.0            | <0.115           | 96           | 71.8 - 121    | 11  | 20           |
| 1,1,2,2-Tetrachloroethane          | 43.7          | µg/L  | 1    | 50.0            | <0.766           | 87           | 73.3 - 106    | 12  | 20           |
| 2-Chlorotoluene                    | 43.9          | µg/L  | 1    | 50.0            | <0.132           | 88           | 72.4 - 123    | 10  | 20           |
| 1,2,3-Trichloropropane             | 42.8          | µg/L  | 1    | 50.0            | <0.599           | 86           | 75.4 - 105    | 15  | 20           |
| Isopropylbenzene                   | 50.5          | µg/L  | 1    | 50.0            | 3.89             | 93           | 81.9 - 112    | 11  | 20           |
| Bromobenzene                       | 40.9          | µg/L  | 1    | 50.0            | <0.266           | 82           | 69.8 - 127    | 9   | 20           |
| n-Propylbenzene                    | 46.9          | µg/L  | 1    | 50.0            | 3.79             | 86           | 73.3 - 124    | 10  | 20           |
| 1,3,5-Trimethylbenzene             | 43.8          | µg/L  | 1    | 50.0            | <0.124           | 88           | 72 - 118      | 10  | 20           |
| tert-Butylbenzene                  | 47.2          | µg/L  | 1    | 50.0            | 5.71             | 83           | 74.6 - 122    | 10  | 20           |
| 1,2,4-Trimethylbenzene             | 38.6          | µg/L  | 1    | 50.0            | <0.114           | 77           | 67.8 - 88.2   | 11  | 20           |
| 1,4-Dichlorobenzene (para)         | 44.8          | µg/L  | 1    | 50.0            | <0.230           | 90           | 55.2 - 136    | 12  | 20           |
| sec-Butylbenzene                   | 45.3          | µg/L  | 1    | 50.0            | 2.8              | 85           | 74 - 122      | 9   | 20           |
| 1,3-Dichlorobenzene (meta)         | 39.3          | µg/L  | 1    | 50.0            | <0.214           | 79           | 74.1 - 107    | 10  | 20           |
| p-Isopropyltoluene                 | 42.2          | µg/L  | 1    | 50.0            | <0.126           | 84           | 71.9 - 120    | 10  | 20           |
| 4-Chlorotoluene                    | 43.9          | µg/L  | 1    | 50.0            | <0.161           | 88           | 74.8 - 120    | 10  | 20           |
| 1,2-Dichlorobenzene (ortho)        | 42.5          | µg/L  | 1    | 50.0            | <0.357           | 85           | 69.5 - 118    | 10  | 20           |

continued ...



matrix spikes continued ...

| Param                       | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| n-Butylbenzene              | 43.3          | µg/L  | 1    | 50.0            | 0.132            | 86   | 68.6 - 121    | 13  | 20           |
| 1,2-Dibromo-3-chloropropane | 39.1          | µg/L  | 1    | 50.0            | <0.977           | 78   | 44.9 - 140    | 12  | 20           |
| 1,2,3-Trichlorobenzene      | 45.2          | µg/L  | 1    | 50.0            | <0.400           | 90   | 44.9 - 133    | 11  | 20           |
| 1,2,4-Trichlorobenzene      | 46.1          | µg/L  | 1    | 50.0            | <0.227           | 92   | 59.1 - 129    | 12  | 20           |
| Naphthalene                 | 80.4          | µg/L  | 1    | 50.0            | 33.8             | 93   | 43.9 - 145    | 8   | 20           |
| Hexachlorobutadiene         | 39.0          | µg/L  | 1    | 50.0            | <0.198           | 78   | 52.7 - 109    | 18  | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 53.0         | 53.4          | µg/L  | 1    | 50              | 106        | 107         | 88.3 - 113    |
| Toluene-d8                   | 41.2         | 41.4          | µg/L  | 1    | 50              | 82         | 83          | 81.5 - 116    |
| 4-Bromofluorobenzene (4-BFB) | 49.5         | 49.5          | µg/L  | 1    | 50              | 99         | 99          | 79.2 - 109    |

#### Standard (CCV-1)

QC Batch: 73948

Date Analyzed: 2010-09-28

Analyzed By: KB

| Param                           | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Bromochloromethane              |      | µg/L  | 50.0                  | 56.7                   | 113                         | 80 - 120                      | 2010-09-28       |
| Dichlorodifluoromethane         |      | µg/L  | 50.0                  | 48.5                   | 97                          | 80 - 120                      | 2010-09-28       |
| Chloromethane (methyl chloride) | 13   | µg/L  | 50.0                  | 60.3                   | 121                         | 80 - 120                      | 2010-09-28       |
| Vinyl Chloride                  |      | µg/L  | 50.0                  | 56.0                   | 112                         | 80 - 120                      | 2010-09-28       |
| Bromomethane (methyl bromide)   |      | µg/L  | 50.0                  | 40.1                   | 80                          | 80 - 120                      | 2010-09-28       |
| Chloroethane                    |      | µg/L  | 50.0                  | 54.5                   | 109                         | 80 - 120                      | 2010-09-28       |
| Trichlorofluoromethane          |      | µg/L  | 50.0                  | 55.5                   | 111                         | 80 - 120                      | 2010-09-28       |
| Acetone                         |      | µg/L  | 50.0                  | 53.6                   | 107                         | 80 - 120                      | 2010-09-28       |
| Iodomethane (methyl iodide)     |      | µg/L  | 50.0                  | 57.2                   | 114                         | 80 - 120                      | 2010-09-28       |
| Carbon Disulfide                | 14   | µg/L  | 50.0                  | 60.7                   | 121                         | 80 - 120                      | 2010-09-28       |
| Acrylonitrile                   |      | µg/L  | 50.0                  | 58.7                   | 117                         | 80 - 120                      | 2010-09-28       |
| 2-Butanone (MEK)                |      | µg/L  | 50.0                  | 52.7                   | 105                         | 80 - 120                      | 2010-09-28       |
| 4-Methyl-2-pentanone (MIBK)     |      | µg/L  | 50.0                  | 54.6                   | 109                         | 80 - 120                      | 2010-09-28       |
| 2-Hexanone                      |      | µg/L  | 50.0                  | 48.6                   | 97                          | 80 - 120                      | 2010-09-28       |
| trans 1,4-Dichloro-2-butene     |      | µg/L  | 50.0                  | 45.6                   | 91                          | 80 - 120                      | 2010-09-28       |
| 1,1-Dichloroethene              |      | µg/L  | 50.0                  | 57.5                   | 115                         | 80 - 120                      | 2010-09-28       |
| Methylene chloride              |      | µg/L  | 50.0                  | 56.5                   | 113                         | 80 - 120                      | 2010-09-28       |
| MTBE                            |      | µg/L  | 50.0                  | 54.7                   | 109                         | 80 - 120                      | 2010-09-28       |
| trans-1,2-Dichloroethene        |      | µg/L  | 50.0                  | 58.4                   | 117                         | 80 - 120                      | 2010-09-28       |
| 1,1-Dichloroethane              |      | µg/L  | 50.0                  | 58.7                   | 117                         | 80 - 120                      | 2010-09-28       |

continued ...

<sup>13</sup> Analyte recovery outside CCV control limits. Concentration biased high. •

<sup>14</sup> Analyte recovery outside CCV control limits. Concentration biased high. •

standard continued ...

| Param                              | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| cis-1,2-Dichloroethene             | 15   | µg/L  | 50.0                  | 58.0                   | 116                         | 80 - 120                      | 2010-09-28       |
| 2,2-Dichloropropane                |      | µg/L  | 50.0                  | 63.4                   | 127                         | 80 - 120                      | 2010-09-28       |
| 1,2-Dichloroethane (EDC)           |      | µg/L  | 50.0                  | 56.4                   | 113                         | 80 - 120                      | 2010-09-28       |
| Chloroform                         |      | µg/L  | 50.0                  | 56.8                   | 114                         | 80 - 120                      | 2010-09-28       |
| 1,1,1-Trichloroethane              | 16   | µg/L  | 50.0                  | 61.4                   | 123                         | 80 - 120                      | 2010-09-28       |
| 1,1-Dichloropropene                | 17   | µg/L  | 50.0                  | 62.2                   | 124                         | 80 - 120                      | 2010-09-28       |
| Benzene                            | 18   | µg/L  | 50.0                  | 59.9                   | 120                         | 80 - 120                      | 2010-09-28       |
| Carbon Tetrachloride               |      | µg/L  | 50.0                  | 60.5                   | 121                         | 80 - 120                      | 2010-09-28       |
| 1,2-Dichloropropane                |      | µg/L  | 50.0                  | 60.5                   | 121                         | 80 - 120                      | 2010-09-28       |
| Trichloroethene (TCE)              |      | µg/L  | 50.0                  | 57.6                   | 115                         | 80 - 120                      | 2010-09-28       |
| Dibromomethane (methylene bromide) | 19   | µg/L  | 50.0                  | 53.4                   | 107                         | 80 - 120                      | 2010-09-28       |
| Bromodichloromethane               |      | µg/L  | 50.0                  | 56.1                   | 112                         | 80 - 120                      | 2010-09-28       |
| 2-Chloroethyl vinyl ether          |      | µg/L  | 50.0                  | 49.8                   | 100                         | 80 - 120                      | 2010-09-28       |
| cis-1,3-Dichloropropene            |      | µg/L  | 50.0                  | 58.0                   | 116                         | 80 - 120                      | 2010-09-28       |
| trans-1,3-Dichloropropene          |      | µg/L  | 50.0                  | 57.6                   | 115                         | 80 - 120                      | 2010-09-28       |
| Toluene                            |      | µg/L  | 50.0                  | 49.2                   | 98                          | 80 - 120                      | 2010-09-28       |
| 1,1,2-Trichloroethane              |      | µg/L  | 50.0                  | 46.4                   | 93                          | 80 - 120                      | 2010-09-28       |
| 1,3-Dichloropropane                |      | µg/L  | 50.0                  | 45.0                   | 90                          | 80 - 120                      | 2010-09-28       |
| Dibromochloromethane               |      | µg/L  | 50.0                  | 47.0                   | 94                          | 80 - 120                      | 2010-09-28       |
| 1,2-Dibromoethane (EDB)            |      | µg/L  | 50.0                  | 46.3                   | 93                          | 80 - 120                      | 2010-09-28       |
| Tetrachloroethene (PCE)            |      | µg/L  | 50.0                  | 42.4                   | 85                          | 80 - 120                      | 2010-09-28       |
| Chlorobenzene                      |      | µg/L  | 50.0                  | 48.7                   | 97                          | 80 - 120                      | 2010-09-28       |
| 1,1,1,2-Tetrachloroethane          |      | µg/L  | 50.0                  | 49.3                   | 99                          | 80 - 120                      | 2010-09-28       |
| Ethylbenzene                       |      | µg/L  | 50.0                  | 47.5                   | 95                          | 80 - 120                      | 2010-09-28       |
| m,p-Xylene                         |      | µg/L  | 100                   | 99.9                   | 100                         | 80 - 120                      | 2010-09-28       |
| Bromoform                          |      | µg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2010-09-28       |
| Styrene                            |      | µg/L  | 50.0                  | 47.7                   | 95                          | 80 - 120                      | 2010-09-28       |
| o-Xylene                           |      | µg/L  | 50.0                  | 50.2                   | 100                         | 80 - 120                      | 2010-09-28       |
| 1,1,2,2-Tetrachloroethane          |      | µg/L  | 50.0                  | 44.8                   | 90                          | 80 - 120                      | 2010-09-28       |
| 2-Chlorotoluene                    |      | µg/L  | 50.0                  | 45.7                   | 91                          | 80 - 120                      | 2010-09-28       |
| 1,2,3-Trichloropropane             |      | µg/L  | 50.0                  | 44.2                   | 88                          | 80 - 120                      | 2010-09-28       |
| Isopropylbenzene                   |      | µg/L  | 50.0                  | 49.0                   | 98                          | 80 - 120                      | 2010-09-28       |
| Bromobenzene                       |      | µg/L  | 50.0                  | 41.8                   | 84                          | 80 - 120                      | 2010-09-28       |
| n-Propylbenzene                    |      | µg/L  | 50.0                  | 45.7                   | 91                          | 80 - 120                      | 2010-09-28       |
| 1,3,5-Trimethylbenzene             |      | µg/L  | 50.0                  | 45.8                   | 92                          | 80 - 120                      | 2010-09-28       |
| tert-Butylbenzene                  |      | µg/L  | 50.0                  | 44.7                   | 89                          | 80 - 120                      | 2010-09-28       |
| 1,2,4-Trimethylbenzene             |      | µg/L  | 50.0                  | 43.0                   | 86                          | 80 - 120                      | 2010-09-28       |
| 1,4-Dichlorobenzene (para)         |      | µg/L  | 50.0                  | 47.7                   | 95                          | 80 - 120                      | 2010-09-28       |
| sec-Butylbenzene                   |      | µg/L  | 50.0                  | 45.4                   | 91                          | 80 - 120                      | 2010-09-28       |

continued ...

- <sup>15</sup> Analyte recovery outside CCV control limits. Concentration biased high. •
- <sup>16</sup> Analyte recovery outside CCV control limits. Concentration biased high. •
- <sup>17</sup> Analyte recovery outside CCV control limits. Concentration biased high. •
- <sup>18</sup> Analyte recovery outside CCV control limits. Concentration biased high. •
- <sup>19</sup> Analyte recovery outside CCV control limits. Concentration biased high. •

standard continued ...

| Param                       | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| 1,3-Dichlorobenzene (meta)  |      | µg/L  | 50.0                  | 41.2                   | 82                          | 80 - 120                      | 2010-09-28       |
| p-Isopropyltoluene          |      | µg/L  | 50.0                  | 45.1                   | 90                          | 80 - 120                      | 2010-09-28       |
| 4-Chlorotoluene             |      | µg/L  | 50.0                  | 44.7                   | 89                          | 80 - 120                      | 2010-09-28       |
| 1,2-Dichlorobenzene (ortho) |      | µg/L  | 50.0                  | 44.6                   | 89                          | 80 - 120                      | 2010-09-28       |
| n-Butylbenzene              |      | µg/L  | 50.0                  | 46.3                   | 93                          | 80 - 120                      | 2010-09-28       |
| 1,2-Dibromo-3-chloropropane | 20   | µg/L  | 50.0                  | 36.0                   | 72                          | 80 - 120                      | 2010-09-28       |
| 1,2,3-Trichlorobenzene      |      | µg/L  | 50.0                  | 43.7                   | 87                          | 80 - 120                      | 2010-09-28       |
| 1,2,4-Trichlorobenzene      |      | µg/L  | 50.0                  | 46.0                   | 92                          | 80 - 120                      | 2010-09-28       |
| Naphthalene                 |      | µg/L  | 50.0                  | 40.5                   | 81                          | 80 - 120                      | 2010-09-28       |
| Hexachlorobutadiene         |      | µg/L  | 50.0                  | 42.9                   | 86                          | 80 - 120                      | 2010-09-28       |

<sup>20</sup>Analyte recovery outside CCV control limits. Concentration biased low. •



## TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

BioAquatic Testing  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

Company Name: ZBC International

Phone #: (571) 307-3388

Address: (Street, City, Zip)

Fax #: (571) 307-0307

Contact Person: Cliff Dawson

E-mail:

Invoice to:

(If different from above)

Project #:

Project Name: WESTGATE

Project Location (including state):

Sampler Signature: [Signature]

Project Location (including state):

Sampler Signature: [Signature]

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     | DATE |  | SAMPLING TIME |
|-------------------------|------------|--------------|-----------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|------|--|---------------|
|                         |            |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE |  |               |

|        |          |   |     |   |  |  |  |   |  |  |  |   |  |         |       |
|--------|----------|---|-----|---|--|--|--|---|--|--|--|---|--|---------|-------|
| 245169 | MMW # 10 | 3 | VOA | ✓ |  |  |  | ✓ |  |  |  | ✓ |  | 9/23/10 | 11:10 |
| 990    | MMW # B  | 5 | VOA | ✓ |  |  |  | ✓ |  |  |  | ✓ |  | 9/23/10 | 11:15 |

ANALYSIS REQUEST  
(Circle or Specify Method No.)

|                                                                            |                         |   |
|----------------------------------------------------------------------------|-------------------------|---|
| MTBE                                                                       | 8021 / 602 / 8260 / 624 | ✓ |
| TPH 418.1 / TX1005 Ex(C35)                                                 | 8021 / 602 / 8260 / 624 | ✓ |
| TPH 8015 GRO / DRO / TVHC                                                  | 8021 / 602 / 8260 / 624 | ✓ |
| PAH 8270 / 625                                                             | 8021 / 602 / 8260 / 624 | ✓ |
| Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7                            | 8021 / 602 / 8260 / 624 | ✓ |
| TCMP Metals Ag As Ba Cd Cr Pb Se Hg                                        | 8021 / 602 / 8260 / 624 | ✓ |
| TCMP Volatiles                                                             | 8021 / 602 / 8260 / 624 | ✓ |
| TCMP Semi Volatiles                                                        | 8021 / 602 / 8260 / 624 | ✓ |
| TCMP Pesticides                                                            | 8021 / 602 / 8260 / 624 | ✓ |
| RCI                                                                        | 8021 / 602 / 8260 / 624 | ✓ |
| GC/MS Vol. 8260 / 624                                                      | 8021 / 602 / 8260 / 624 | ✓ |
| GC/MS Semi. Vol. 8270 / 625                                                | 8021 / 602 / 8260 / 624 | ✓ |
| PCB's 8082 / 608                                                           | 8021 / 602 / 8260 / 624 | ✓ |
| Pesticides 8081 / 608                                                      | 8021 / 602 / 8260 / 624 | ✓ |
| BOD, TSS, pH                                                               | 8021 / 602 / 8260 / 624 | ✓ |
| Moisture Content                                                           | 8021 / 602 / 8260 / 624 | ✓ |
| Na, Ca, Mg, K, TDS, EC                                                     | 8021 / 602 / 8260 / 624 | ✓ |
| Cl, F, S, SO <sub>4</sub> , NO <sub>3</sub> , NO <sub>2</sub> , Alkalinity | 8021 / 602 / 8260 / 624 | ✓ |
| Turn Around Time if different from standard                                | 8021 / 602 / 8260 / 624 | ✓ |

## REMARKS:

## LAB USE ONLY

Initials Y / N / NA

Headspace Y / N / NA

Log-in-Review

MA

Check if Special Reporting Limits Are Needed

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting Limits Are Needed

Log-in-Review

MA

Check if Special Reporting Limits Are Needed

Log-in-Review

MA

Carroll County - sample to Allen.  
per [Signature] 9/27/10

Carrier # Fed 793946371380  
SEP 29 2010

## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: January 10, 2011

Work Order: 10123015



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 254481 | MW #10      | water  | 2010-12-28 | 11:00      | 2010-12-30    |
| 254482 | MW #9       | water  | 2010-12-28 | 11:55      | 2010-12-30    |
| 254483 | MW #8       | water  | 2010-12-28 | 12:40      | 2010-12-30    |
| 254484 | MW #4       | water  | 2010-12-28 | 14:15      | 2010-12-30    |
| 254485 | MW #6       | water  | 2010-12-28 | 14:57      | 2010-12-30    |
| 254486 | MW #11      | water  | 2010-12-28 | 15:00      | 2010-12-30    |
| 254487 | MW #5       | water  | 2010-12-28 | 15:56      | 2010-12-30    |

### Sample: 254481 - MW #10

| Param               | Flag | Result    | Units | RL       |
|---------------------|------|-----------|-------|----------|
| Naphthalene         |      | <0.000184 | mg/L  | 0.000200 |
| 2-Methylnaphthalene |      | <0.000184 | mg/L  | 0.000200 |
| 1-Methylnaphthalene |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthylene      |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthene        |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzofuran        |      | <0.000184 | mg/L  | 0.000200 |
| Fluorene            |      | <0.000184 | mg/L  | 0.000200 |
| Anthracene          |      | <0.000184 | mg/L  | 0.000200 |
| Phenanthrene        |      | <0.000184 | mg/L  | 0.000200 |
| Fluoranthene        |      | <0.000184 | mg/L  | 0.000200 |
| Pyrene              |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)anthracene  |      | <0.000184 | mg/L  | 0.000200 |
| Chrysene            |      | <0.000184 | mg/L  | 0.000200 |

*continued ...*

*sample 254481 continued ...*

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Benzo(b)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184 | mg/L  | 0.000200 |

**Sample: 254482 - MW #9**

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Naphthalene            |      | <0.000184 | mg/L  | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthylene         |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthene           |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzofuran           |      | <0.000184 | mg/L  | 0.000200 |
| Fluorene               |      | <0.000184 | mg/L  | 0.000200 |
| Anthracene             |      | <0.000184 | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000184 | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000184 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzene                |      | <1.00     | µg/L  | 1.00     |
| Toluene                |      | <1.00     | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00     | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00     | µg/L  | 1.00     |
| o-Xylene               |      | <1.00     | µg/L  | 1.00     |

**Sample: 254483 - MW #8**

| Param               | Flag | Result    | Units | RL       |
|---------------------|------|-----------|-------|----------|
| Naphthalene         |      | <0.000186 | mg/L  | 0.000200 |
| 2-Methylnaphthalene |      | <0.000186 | mg/L  | 0.000200 |
| 1-Methylnaphthalene |      | <0.000186 | mg/L  | 0.000200 |
| Acenaphthylene      |      | <0.000186 | mg/L  | 0.000200 |
| Acenaphthene        |      | <0.000186 | mg/L  | 0.000200 |
| Dibenzofuran        |      | <0.000186 | mg/L  | 0.000200 |

*continued ...*

*sample 254483 continued ...*

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Fluorene               |      | <0.000186 | mg/L  | 0.000200 |
| Anthracene             |      | <0.000186 | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000186 | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000186 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000186 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000186 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000186 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000186 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000186 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000186 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000186 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000186 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000186 | mg/L  | 0.000200 |
| Benzene                |      | <1.00     | µg/L  | 1.00     |
| Toluene                |      | <1.00     | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00     | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00     | µg/L  | 1.00     |
| o-Xylene               |      | <1.00     | µg/L  | 1.00     |

**Sample: 254484 - MW #4**

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Naphthalene            |      | <0.000183 | mg/L  | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000183 | mg/L  | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000183 | mg/L  | 0.000200 |
| Acenaphthylene         |      | <0.000183 | mg/L  | 0.000200 |
| Acenaphthene           |      | <0.000183 | mg/L  | 0.000200 |
| Dibenzofuran           |      | <0.000183 | mg/L  | 0.000200 |
| Fluorene               |      | <0.000183 | mg/L  | 0.000200 |
| Anthracene             |      | <0.000183 | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000183 | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000183 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000183 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000183 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000183 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000183 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000183 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000183 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000183 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000183 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000183 | mg/L  | 0.000200 |
| Benzene                |      | <1.00     | µg/L  | 1.00     |
| Toluene                |      | <1.00     | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00     | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00     | µg/L  | 1.00     |
| o-Xylene               |      | <1.00     | µg/L  | 1.00     |



**Sample: 254485 - MW #6**

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Naphthalene            |      | <0.000188 | mg/L  | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000188 | mg/L  | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000188 | mg/L  | 0.000200 |
| Acenaphthylene         |      | <0.000188 | mg/L  | 0.000200 |
| Acenaphthene           |      | <0.000188 | mg/L  | 0.000200 |
| Dibenzofuran           |      | <0.000188 | mg/L  | 0.000200 |
| Fluorene               |      | <0.000188 | mg/L  | 0.000200 |
| Anthracene             |      | <0.000188 | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000188 | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000188 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000188 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000188 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000188 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000188 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000188 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000188 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000188 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000188 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000188 | mg/L  | 0.000200 |
| Benzene                |      | <1.00     | µg/L  | 1.00     |
| Toluene                |      | <1.00     | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00     | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00     | µg/L  | 1.00     |
| o-Xylene               |      | <1.00     | µg/L  | 1.00     |

**Sample: 254486 - MW #11**

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Naphthalene            |      | <0.000184 | mg/L  | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthylene         |      | <0.000184 | mg/L  | 0.000200 |
| Acenaphthene           |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzofuran           |      | <0.000184 | mg/L  | 0.000200 |
| Fluorene               |      | <0.000184 | mg/L  | 0.000200 |
| Anthracene             |      | <0.000184 | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000184 | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000184 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184 | mg/L  | 0.000200 |

continued ...

*sample 254486 continued ...*

| Param                | Flag | Result    | Units | RL       |
|----------------------|------|-----------|-------|----------|
| Benzo(g,h,i)perylene |      | <0.000184 | mg/L  | 0.000200 |

**Sample: 254487 - MW #5**

| Param                  | Flag | Result    | Units | RL       |
|------------------------|------|-----------|-------|----------|
| Naphthalene            |      | <0.000183 | mg/L  | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000183 | mg/L  | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000183 | mg/L  | 0.000200 |
| Acenaphthylene         |      | <0.000183 | mg/L  | 0.000200 |
| Acenaphthene           |      | <0.000183 | mg/L  | 0.000200 |
| Dibenzofuran           |      | <0.000183 | mg/L  | 0.000200 |
| Fluorene               |      | <0.000183 | mg/L  | 0.000200 |
| Anthracene             |      | <0.000183 | mg/L  | 0.000200 |
| Phenanthrene           |      | <0.000183 | mg/L  | 0.000200 |
| Fluoranthene           |      | <0.000183 | mg/L  | 0.000200 |
| Pyrene                 |      | <0.000183 | mg/L  | 0.000200 |
| Benzo(a)anthracene     |      | <0.000183 | mg/L  | 0.000200 |
| Chrysene               |      | <0.000183 | mg/L  | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000183 | mg/L  | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000183 | mg/L  | 0.000200 |
| Benzo(a)pyrene         |      | <0.000183 | mg/L  | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000183 | mg/L  | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000183 | mg/L  | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000183 | mg/L  | 0.000200 |
| Benzene                |      | <1.00     | µg/L  | 1.00     |
| Toluene                |      | <1.00     | µg/L  | 1.00     |
| Ethylbenzene           |      | <1.00     | µg/L  | 1.00     |
| m,p-Xylene             |      | <1.00     | µg/L  | 1.00     |
| o-Xylene               |      | <1.00     | µg/L  | 1.00     |

# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296  
700 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBENC: 237019

HUB: 1752439743100-86536  
NCTRCA WFWB38444Y0909

DBE: VN 20657

## NELAP Certifications

Lubbock: T104704219-08-TX  
LELAP-02003  
Kansas E-10317

El Paso: T104704221-08-TX  
LELAP-02002

Midland: T104704392-08-TX

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: January 10, 2011

Work Order: 10123015



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 254481 | MW #10      | water  | 2010-12-28 | 11:00      | 2010-12-30    |
| 254482 | MW #9       | water  | 2010-12-28 | 11:55      | 2010-12-30    |
| 254483 | MW #8       | water  | 2010-12-28 | 12:40      | 2010-12-30    |
| 254484 | MW #4       | water  | 2010-12-28 | 14:15      | 2010-12-30    |
| 254485 | MW #6       | water  | 2010-12-28 | 14:57      | 2010-12-30    |
| 254486 | MW #11      | water  | 2010-12-28 | 15:00      | 2010-12-30    |
| 254487 | MW #5       | water  | 2010-12-28 | 15:56      | 2010-12-30    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 17 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

#### Standard Flags

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Westgate were received by TraceAnalysis, Inc. on 2010-12-30 and assigned to work order 10123015. Samples for work order 10123015 were received intact without headspace and at a temperature of 3.4 C.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method   | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|-----------|----------|---------------|---------------------|-------------|---------------------|
| PAH       | S 8270D  | 65802         | 2011-01-03 at 15:00 | 76743       | 2011-01-07 at 11:08 |
| Volatiles | S 8260 C | 65705         | 2010-12-30 at 12:00 | 76629       | 2010-12-30 at 12:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10123015 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

## Analytical Report

Sample: 254481 - MW #10

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 76743  
Prep Batch: 65802

Analytical Method: S 8270D  
Date Analyzed: 2011-01-07  
Sample Preparation: 2011-01-03

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Naphthalene            |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthylene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzofuran           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluorene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Anthracene             |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Phenanthrene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluoranthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Pyrene                 |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Chrysene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0169 | mg/L  | 0.922    | 0.0800          | 21                  | 10 - 111           |
| 2-Fluorobiphenyl |      | 0.0180 | mg/L  | 0.922    | 0.0800          | 22                  | 10 - 92.7          |
| Terphenyl-d14    |      | 0.0302 | mg/L  | 0.922    | 0.0800          | 38                  | 35.9 - 107         |

Sample: 254482 - MW #9

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 76743  
Prep Batch: 65802

Analytical Method: S 8270D  
Date Analyzed: 2011-01-07  
Sample Preparation: 2011-01-03

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

*continued ...*

sample 254482 continued ...

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
| Naphthalene            |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthylene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Acenaphthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzofuran           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluorene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Anthracene             |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Phenanthrene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Fluoranthene           |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Pyrene                 |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Chrysene               |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184    | mg/L  | 0.922    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184    | mg/L  | 0.922    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0280 | mg/L  | 0.922    | 0.0800          | 35                  | 10 - 111           |
| 2-Fluorobiphenyl |      | 0.0260 | mg/L  | 0.922    | 0.0800          | 32                  | 10 - 92.7          |
| Terphenyl-d14    |      | 0.0360 | mg/L  | 0.922    | 0.0800          | 45                  | 35.9 - 107         |

**Sample: 254482 - MW #9**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 76629  
Prep Batch: 65705

Analytical Method: S 8260 C  
Date Analyzed: 2010-12-30  
Sample Preparation: 2010-12-30

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |

continued ...

Report Date: January 10, 2011  
Westgate

Work Order: 10123015  
Westgate

Page Number: 6 of 17  
Hobbs, NM

sample 254482 continued ...

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| o-Xylene  |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 53.5   | µg/L  | 1        | 50.0            | 107                 | 70 - 130           |
| Toluene-d8                   |      | 51.0   | µg/L  | 1        | 50.0            | 102                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 48.0   | µg/L  | 1        | 50.0            | 96                  | 70 - 130           |

**Sample: 254483 - MW #8**

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 76743  
Prep Batch: 65802

Analytical Method: S 8270D  
Date Analyzed: 2011-01-07  
Sample Preparation: 2011-01-03

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Naphthalene            |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Acenaphthylene         |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Acenaphthene           |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Dibenzofuran           |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Fluorene               |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Anthracene             |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Phenanthrene           |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Fluoranthene           |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Pyrene                 |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Benzo(a)anthracene     |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Chrysene               |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Benzo(a)pyrene         |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000186    | mg/L  | 0.93     | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000186    | mg/L  | 0.93     | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0308 | mg/L  | 0.93     | 0.0800          | 38                  | 10 - 111           |
| 2-Fluorobiphenyl |      | 0.0273 | mg/L  | 0.93     | 0.0800          | 34                  | 10 - 92.7          |
| Terphenyl-d14    |      | 0.0324 | mg/L  | 0.93     | 0.0800          | 40                  | 35.9 - 107         |



Report Date: January 10, 2011  
Westgate

Work Order: 10123015  
Westgate

Page Number: 7 of 17  
Hobbs, NM

**Sample: 254483 - MW #8**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 76629  
Prep Batch: 65705

Analytical Method: S 8260 C  
Date Analyzed: 2010-12-30  
Sample Preparation: 2010-12-30

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL     | Units | Dilution | RL   |
|--------------|------|--------|-------|----------|------|
|              |      | Result |       |          |      |
| Benzene      |      | <1.00  | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      | 53.6   | µg/L  | 1        | 50.0         | 107              | 70 - 130        |
| Toluene-d8                   |      | 50.5   | µg/L  | 1        | 50.0         | 101              | 70 - 130        |
| 4-Bromofluorobenzene (4-BFB) |      | 47.5   | µg/L  | 1        | 50.0         | 95               | 70 - 130        |

**Sample: 254484 - MW #4**

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 76743  
Prep Batch: 65802

Analytical Method: S 8270D  
Date Analyzed: 2011-01-07  
Sample Preparation: 2011-01-03

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter            | Flag | RL        | Units | Dilution | RL       |
|----------------------|------|-----------|-------|----------|----------|
|                      |      | Result    |       |          |          |
| Naphthalene          |      | <0.000183 | mg/L  | 0.913    | 0.000200 |
| 2-Methylnaphthalene  |      | <0.000183 | mg/L  | 0.913    | 0.000200 |
| 1-Methylnaphthalene  |      | <0.000183 | mg/L  | 0.913    | 0.000200 |
| Acenaphthylene       |      | <0.000183 | mg/L  | 0.913    | 0.000200 |
| Acenaphthene         |      | <0.000183 | mg/L  | 0.913    | 0.000200 |
| Dibenzofuran         |      | <0.000183 | mg/L  | 0.913    | 0.000200 |
| Fluorene             |      | <0.000183 | mg/L  | 0.913    | 0.000200 |
| Anthracene           |      | <0.000183 | mg/L  | 0.913    | 0.000200 |
| Phenanthrene         |      | <0.000183 | mg/L  | 0.913    | 0.000200 |
| Fluoranthene         |      | <0.000183 | mg/L  | 0.913    | 0.000200 |
| Pyrene               |      | <0.000183 | mg/L  | 0.913    | 0.000200 |
| Benzo(a)anthracene   |      | <0.000183 | mg/L  | 0.913    | 0.000200 |
| Chrysene             |      | <0.000183 | mg/L  | 0.913    | 0.000200 |
| Benzo(b)fluoranthene |      | <0.000183 | mg/L  | 0.913    | 0.000200 |
| Benzo(k)fluoranthene |      | <0.000183 | mg/L  | 0.913    | 0.000200 |
| Benzo(a)pyrene       |      | <0.000183 | mg/L  | 0.913    | 0.000200 |

*continued ...*

Report Date: January 10, 2011  
Westgate

Work Order: 10123015  
Westgate

Page Number: 8 of 17  
Hobbs, NM

sample 254484 continued ...

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Indeno(1,2,3-cd)pyrene |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000183    | mg/L  | 0.913    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0265 | mg/L  | 0.913    | 0.0800          | 33                  | 10 - 111           |
| 2-Fluorobiphenyl |      | 0.0273 | mg/L  | 0.913    | 0.0800          | 34                  | 10 - 92.7          |
| Terphenyl-d14    |      | 0.0332 | mg/L  | 0.913    | 0.0800          | 42                  | 35.9 - 107         |

Sample: 254484 - MW #4

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 76629  
Prep Batch: 65705

Analytical Method: S 8260 C  
Date Analyzed: 2010-12-30  
Sample Preparation: 2010-12-30

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 53.4   | µg/L  | 1        | 50.0            | 107                 | 70 - 130           |
| Toluene-d8                   |      | 51.1   | µg/L  | 1        | 50.0            | 102                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 47.7   | µg/L  | 1        | 50.0            | 95                  | 70 - 130           |

Sample: 254485 - MW #6

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 76743  
Prep Batch: 65802

Analytical Method: S 8270D  
Date Analyzed: 2011-01-07  
Sample Preparation: 2011-01-03

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter   | Flag | RL<br>Result | Units | Dilution | RL       |
|-------------|------|--------------|-------|----------|----------|
| Naphthalene |      | <0.000188    | mg/L  | 0.939    | 0.000200 |

continued ...

sample 254485 continued ...

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| 2-Methylnaphthalene    |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| Acenaphthylene         |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| Acenaphthene           |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| Dibenzofuran           |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| Fluorene               |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| Anthracene             |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| Phenanthrene           |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| Fluoranthene           |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| Pyrene                 |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| Benzo(a)anthracene     |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| Chrysene               |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| Benzo(a)pyrene         |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000188    | mg/L  | 0.939    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000188    | mg/L  | 0.939    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0295 | mg/L  | 0.939    | 0.0800          | 37                  | 10 - 111           |
| 2-Fluorobiphenyl |      | 0.0300 | mg/L  | 0.939    | 0.0800          | 38                  | 10 - 92.7          |
| Terphenyl-d14    |      | 0.0330 | mg/L  | 0.939    | 0.0800          | 41                  | 35.9 - 107         |

Sample: 254485 - MW #6

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 76629  
Prep Batch: 65705

Analytical Method: S 8260 C  
Date Analyzed: 2010-12-30  
Sample Preparation: 2010-12-30

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

Report Date: January 10, 2011  
Westgate

Work Order: 10123015  
Westgate

Page Number: 10 of 17  
Hobbs, NM

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      | 52.7   | µg/L  | 1        | 50.0         | 105              | 70 - 130        |
| Toluene-d8                   |      | 50.2   | µg/L  | 1        | 50.0         | 100              | 70 - 130        |
| 4-Bromofluorobenzene (4-BFB) |      | 47.4   | µg/L  | 1        | 50.0         | 95               | 70 - 130        |

Sample: 254486 - MW #11

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 76743  
Prep Batch: 65802

Analytical Method: S 8270D  
Date Analyzed: 2011-01-07  
Sample Preparation: 2011-01-03

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | RL Result | Units | Dilution | RL       |
|------------------------|------|-----------|-------|----------|----------|
| Naphthalene            |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| Acenaphthylene         |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| Acenaphthene           |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| Dibenzofuran           |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| Fluorene               |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| Anthracene             |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| Phenanthrene           |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| Fluoranthene           |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| Pyrene                 |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| Benzo(a)anthracene     |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| Chrysene               |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| Benzo(a)pyrene         |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000184 | mg/L  | 0.922    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000184 | mg/L  | 0.922    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 0.0336 | mg/L  | 0.922    | 0.0800       | 42               | 10 - 111        |
| 2-Fluorobiphenyl |      | 0.0332 | mg/L  | 0.922    | 0.0800       | 42               | 10 - 92.7       |
| Terphenyl-d14    |      | 0.0416 | mg/L  | 0.922    | 0.0800       | 52               | 35.9 - 107      |

Sample: 254487 - MW #5

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 76743  
Prep Batch: 65802

Analytical Method: S 8270D  
Date Analyzed: 2011-01-07  
Sample Preparation: 2011-01-03

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|--------------|-------|----------|----------|
| Naphthalene            |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| 2-Methylnaphthalene    |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| 1-Methylnaphthalene    |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Acenaphthylene         |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Acenaphthene           |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Dibenzofuran           |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Fluorene               |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Anthracene             |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Phenanthrene           |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Fluoranthene           |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Pyrene                 |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Benzo(a)anthracene     |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Chrysene               |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Benzo(b)fluoranthene   |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Benzo(k)fluoranthene   |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Benzo(a)pyrene         |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Dibenzo(a,h)anthracene |      | <0.000183    | mg/L  | 0.913    | 0.000200 |
| Benzo(g,h,i)perylene   |      | <0.000183    | mg/L  | 0.913    | 0.000200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0159 | mg/L  | 0.913    | 0.0800          | 20                  | 10 - 111           |
| 2-Fluorobiphenyl |      | 0.0216 | mg/L  | 0.913    | 0.0800          | 27                  | 10 - 92.7          |
| Terphenyl-d14    | 1    | 0.0223 | mg/L  | 0.913    | 0.0800          | 28                  | 35.9 - 107         |

Sample: 254487 - MW #5

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 76629  
Prep Batch: 65705

Analytical Method: S 8260 C  
Date Analyzed: 2010-12-30  
Sample Preparation: 2010-12-30

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |

<sup>1</sup>8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extra extraction performed properly.

Report Date: January 10, 2011  
Westgate

Work Order: 10123015  
Westgate

Page Number: 12 of 17  
Hobbs, NM

sample 254487 continued ...

| Parameter  | Flag | RL<br>Result | Units | Dilution | RL   |
|------------|------|--------------|-------|----------|------|
| m,p-Xylene |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 53.0   | µg/L  | 1        | 50.0            | 106                 | 70 - 130           |
| Toluene-d8                   |      | 50.6   | µg/L  | 1        | 50.0            | 101                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 48.5   | µg/L  | 1        | 50.0            | 97                  | 70 - 130           |

Method Blank (1)      QC Batch: 76629

QC Batch: 76629  
Prep Batch: 65705

Date Analyzed: 2010-12-30  
QC Preparation: 2010-12-30

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | MDL<br>Result | Units | RL |
|--------------|------|---------------|-------|----|
| Benzene      |      | <0.200        | µg/L  | 1  |
| Toluene      |      | <0.200        | µg/L  | 1  |
| Ethylbenzene |      | <0.140        | µg/L  | 1  |
| m,p-Xylene   |      | <0.270        | µg/L  | 1  |
| o-Xylene     |      | <0.120        | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 52.8   | µg/L  | 1        | 50.0            | 106                 | 70 - 130           |
| Toluene-d8                   |      | 49.7   | µg/L  | 1        | 50.0            | 99                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 47.6   | µg/L  | 1        | 50.0            | 95                  | 70 - 130           |

Method Blank (1)      QC Batch: 76743

QC Batch: 76743  
Prep Batch: 65802

Date Analyzed: 2011-01-07  
QC Preparation: 2011-01-03

Analyzed By: MN  
Prepared By: MN

| Parameter           | Flag | MDL<br>Result | Units | RL     |
|---------------------|------|---------------|-------|--------|
| Naphthalene         |      | <0.0000784    | mg/L  | 0.0002 |
| 2-Methylnaphthalene |      | <0.0000747    | mg/L  | 0.0002 |
| 1-Methylnaphthalene |      | <0.0000575    | mg/L  | 0.0002 |
| Acenaphthylene      |      | <0.0000963    | mg/L  | 0.0002 |
| Acenaphthene        |      | <0.0000617    | mg/L  | 0.0002 |

continued ...

Report Date: January 10, 2011  
Westgate

Work Order: 10123015  
Westgate

Page Number: 13 of 17  
Hobbs, NM

method blank continued ...

| Parameter              | Flag | MDL<br>Result | Units | RL     |
|------------------------|------|---------------|-------|--------|
| Dibenzofuran           |      | <0.0000952    | mg/L  | 0.0002 |
| Fluorene               |      | <0.000134     | mg/L  | 0.0002 |
| Anthracene             |      | <0.000441     | mg/L  | 0.0002 |
| Phenanthrene           |      | <0.000435     | mg/L  | 0.0002 |
| Fluoranthene           |      | <0.000476     | mg/L  | 0.0002 |
| Pyrene                 |      | <0.000590     | mg/L  | 0.0002 |
| Benzo(a)anthracene     |      | <0.000118     | mg/L  | 0.0002 |
| Chrysene               |      | <0.000766     | mg/L  | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.000146     | mg/L  | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.000141     | mg/L  | 0.0002 |
| Benzo(a)pyrene         |      | <0.000132     | mg/L  | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.0000702    | mg/L  | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.0000534    | mg/L  | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.0000473    | mg/L  | 0.0002 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0281 | mg/L  | 1        | 0.0800          | 35                  | 10 - 111           |
| 2-Fluorobiphenyl |      | 0.0237 | mg/L  | 1        | 0.0800          | 30                  | 10 - 92.7          |
| Terphenyl-d14    |      | 0.0390 | mg/L  | 1        | 0.0800          | 49                  | 35.9 - 107         |

#### Laboratory Control Spike (LCS-1)

QC Batch: 76629  
Prep Batch: 65705

Date Analyzed: 2010-12-30  
QC Preparation: 2010-12-30

Analyzed By: KB  
Prepared By: KB

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 49.3          | µg/L  | 1    | 50.0            | <0.200           | 99   | 78.2 - 119    |
| Toluene      | 50.6          | µg/L  | 1    | 50.0            | <0.200           | 101  | 76.9 - 124    |
| Ethylbenzene | 51.0          | µg/L  | 1    | 50.0            | <0.140           | 102  | 85.2 - 119    |
| m,p-Xylene   | 102           | µg/L  | 1    | 100             | <0.270           | 102  | 84.4 - 120    |
| o-Xylene     | 50.6          | µg/L  | 1    | 50.0            | <0.120           | 101  | 82.5 - 123    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 51.0           | µg/L  | 1    | 50.0            | <0.200           | 102  | 78.2 - 119    | 3   | 20           |
| Toluene      | 52.2           | µg/L  | 1    | 50.0            | <0.200           | 104  | 76.9 - 124    | 3   | 20           |
| Ethylbenzene | 52.4           | µg/L  | 1    | 50.0            | <0.140           | 105  | 85.2 - 119    | 3   | 20           |
| m,p-Xylene   | 105            | µg/L  | 1    | 100             | <0.270           | 105  | 84.4 - 120    | 3   | 20           |
| o-Xylene     | 52.5           | µg/L  | 1    | 50.0            | <0.120           | 105  | 82.5 - 123    | 4   | 20           |

Report Date: January 10, 2011  
Westgate

Work Order: 10123015  
Westgate

Page Number: 14 of 17  
Hobbs, NM

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Dibromofluoromethane         | 53.0          | 52.9           | µg/L  | 1    | 50.0            | 106         | 106          | 70 - 130      |
| Toluene-d8                   | 48.5          | 48.6           | µg/L  | 1    | 50.0            | 97          | 97           | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 49.9          | 49.8           | µg/L  | 1    | 50.0            | 100         | 100          | 70 - 130      |

#### Laboratory Control Spike (LCS-1)

QC Batch: 76743  
Prep Batch: 65802

Date Analyzed: 2011-01-07  
QC Preparation: 2011-01-03

Analyzed By: MN  
Prepared By: MN

| Param                  | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Naphthalene            | 0.0383        | mg/L  | 1    | 0.0800          | <0.0000784       | 48   | 32.2 - 80.3   |
| 2-Methylnaphthalene    | 0.0342        | mg/L  | 1    | 0.0800          | <0.0000747       | 43   | 34.8 - 87     |
| 1-Methylnaphthalene    | 0.0351        | mg/L  | 1    | 0.0800          | <0.0000575       | 44   | 36.9 - 89.6   |
| Acenaphthylene         | 0.0509        | mg/L  | 1    | 0.0800          | <0.0000963       | 64   | 35 - 93.2     |
| Acenaphthene           | 0.0496        | mg/L  | 1    | 0.0800          | <0.0000617       | 62   | 35.8 - 92.9   |
| Dibenzofuran           | 0.0450        | mg/L  | 1    | 0.0800          | <0.0000952       | 56   | 35.3 - 85.1   |
| Fluorene               | 0.0597        | mg/L  | 1    | 0.0800          | <0.000134        | 75   | 43.4 - 101    |
| Anthracene             | 0.0523        | mg/L  | 1    | 0.0800          | <0.000441        | 65   | 44.8 - 92.4   |
| Phenanthrene           | 0.0577        | mg/L  | 1    | 0.0800          | <0.000435        | 72   | 44 - 93.7     |
| Fluoranthene           | 0.0691        | mg/L  | 1    | 0.0800          | <0.000476        | 86   | 52.7 - 104    |
| Pyrene                 | 0.0429        | mg/L  | 1    | 0.0800          | <0.000590        | 54   | 42.2 - 93.8   |
| Benzo(a)anthracene     | 0.0538        | mg/L  | 1    | 0.0800          | <0.000118        | 67   | 40.4 - 91.9   |
| Chrysene               | 0.0579        | mg/L  | 1    | 0.0800          | <0.0000766       | 72   | 44.4 - 107    |
| Benzo(b)fluoranthene   | 0.0452        | mg/L  | 1    | 0.0800          | <0.000146        | 56   | 34.8 - 105    |
| Benzo(k)fluoranthene   | 0.0431        | mg/L  | 1    | 0.0800          | <0.000141        | 54   | 50.2 - 158    |
| Benzo(a)pyrene         | 0.0419        | mg/L  | 1    | 0.0800          | <0.000132        | 52   | 51.3 - 151    |
| Indeno(1,2,3-cd)pyrene | 0.0431        | mg/L  | 1    | 0.0800          | <0.0000702       | 54   | 43.2 - 115    |
| Dibenzo(a,h)anthracene | 0.0557        | mg/L  | 1    | 0.0800          | <0.0000534       | 70   | 43.9 - 115    |
| Benzo(g,h,i)perylene   | 0.0436        | mg/L  | 1    | 0.0800          | <0.0000473       | 54   | 45.1 - 115    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param               | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|---------------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Naphthalene         | 0.0378         | mg/L  | 1    | 0.0800          | <0.0000784       | 47   | 32.2 - 80.3   | 1   | 20           |
| 2-Methylnaphthalene | 0.0339         | mg/L  | 1    | 0.0800          | <0.0000747       | 42   | 34.8 - 87     | 1   | 20           |
| 1-Methylnaphthalene | 0.0347         | mg/L  | 1    | 0.0800          | <0.0000575       | 43   | 36.9 - 89.6   | 1   | 20           |
| Acenaphthylene      | 0.0499         | mg/L  | 1    | 0.0800          | <0.0000963       | 62   | 35 - 93.2     | 2   | 20           |
| Acenaphthene        | 0.0484         | mg/L  | 1    | 0.0800          | <0.0000617       | 60   | 35.8 - 92.9   | 2   | 20           |
| Dibenzofuran        | 0.0442         | mg/L  | 1    | 0.0800          | <0.0000952       | 55   | 35.3 - 85.1   | 2   | 20           |
| Fluorene            | 0.0572         | mg/L  | 1    | 0.0800          | <0.000134        | 72   | 43.4 - 101    | 4   | 20           |
| Anthracene          | 0.0530         | mg/L  | 1    | 0.0800          | <0.000441        | 66   | 44.8 - 92.4   | 1   | 20           |

continued ...



control spikes continued ...

| Param                  | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Phenanthrene           | 0.0586         | mg/L  | 1    | 0.0800          | <0.000435        | 73   | 44 - 93.7     | 2   | 20           |
| Fluoranthene           | 0.0704         | mg/L  | 1    | 0.0800          | <0.000476        | 88   | 52.7 - 104    | 2   | 20           |
| Pyrene                 | 0.0418         | mg/L  | 1    | 0.0800          | <0.000590        | 52   | 42.2 - 93.8   | 3   | 20           |
| Benzo(a)anthracene     | 0.0526         | mg/L  | 1    | 0.0800          | <0.000118        | 66   | 40.4 - 91.9   | 2   | 20           |
| Chrysene               | 0.0576         | mg/L  | 1    | 0.0800          | <0.0000766       | 72   | 44.4 - 107    | 0   | 20           |
| Benzo(b)fluoranthene   | 0.0394         | mg/L  | 1    | 0.0800          | <0.000146        | 49   | 34.8 - 105    | 14  | 20           |
| Benzo(k)fluoranthene   | 0.0433         | mg/L  | 1    | 0.0800          | <0.000141        | 54   | 50.2 - 158    | 0   | 20           |
| Benzo(a)pyrene         | 0.0412         | mg/L  | 1    | 0.0800          | <0.000132        | 52   | 51.3 - 151    | 2   | 20           |
| Indeno(1,2,3-cd)pyrene | 0.0424         | mg/L  | 1    | 0.0800          | <0.0000702       | 53   | 43.2 - 115    | 2   | 20           |
| Dibenzo(a,h)anthracene | 0.0546         | mg/L  | 1    | 0.0800          | <0.0000534       | 68   | 43.9 - 115    | 2   | 20           |
| Benzo(g,h,i)perylene   | 0.0428         | mg/L  | 1    | 0.0800          | <0.0000473       | 54   | 45.1 - 115    | 2   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate        | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Nitrobenzene-d5  | 0.0418        | 0.0424         | mg/L  | 1    | 0.0800          | 52          | 53           | 10 - 111      |
| 2-Fluorobiphenyl | 0.0408        | 0.0394         | mg/L  | 1    | 0.0800          | 51          | 49           | 10 - 92.7     |
| Terphenyl-d14    | 0.0481        | 0.0463         | mg/L  | 1    | 0.0800          | 60          | 58           | 35.9 - 107    |

Matrix Spike (xMS-1) Spiked Sample:

QC Batch: 76629  
Prep Batch: 65705

Date Analyzed: 2010-12-30  
QC Preparation: 2010-12-30

Analyzed By: KB  
Prepared By: KB

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 52.3         | µg/L  | 1    | 50.0            | <0.200           | 105  | 70.7 - 125    |
| Toluene      | 52.6         | µg/L  | 1    | 50.0            | <0.200           | 105  | 66.3 - 138    |
| Ethylbenzene | 54.0         | µg/L  | 1    | 50.0            | <0.140           | 108  | 81.6 - 121    |
| m,p-Xylene   | 109          | µg/L  | 1    | 100             | <0.270           | 109  | 80.6 - 121    |
| o-Xylene     | 54.5         | µg/L  | 1    | 50.0            | <0.120           | 109  | 82.4 - 124    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 52.6          | µg/L  | 1    | 50.0            | <0.200           | 105  | 70.7 - 125    | 1   | 20           |
| Toluene      | 53.1          | µg/L  | 1    | 50.0            | <0.200           | 106  | 66.3 - 138    | 1   | 20           |
| Ethylbenzene | 53.8          | µg/L  | 1    | 50.0            | <0.140           | 108  | 81.6 - 121    | 0   | 20           |
| m,p-Xylene   | 109           | µg/L  | 1    | 100             | <0.270           | 109  | 80.6 - 121    | 0   | 20           |
| o-Xylene     | 53.5          | µg/L  | 1    | 50.0            | <0.120           | 107  | 82.4 - 124    | 2   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: January 10, 2011  
Westgate

Work Order: 10123015  
Westgate

Page Number: 16 of 17  
Hobbs, NM

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 53.4         | 53.5          | µg/L  | 1    | 50              | 107        | 107         | 70 - 130      |
| Toluene-d8                   | 49.2         | 49.0          | µg/L  | 1    | 50              | 98         | 98          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 51.6         | 50.1          | µg/L  | 1    | 50              | 103        | 100         | 70 - 130      |

#### Standard (CCV-1)

QC Batch: 76629

Date Analyzed: 2010-12-30

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | µg/L  | 50.0                  | 51.2                   | 102                         | 80 - 120                      | 2010-12-30       |
| Toluene      |      | µg/L  | 50.0                  | 52.4                   | 105                         | 80 - 120                      | 2010-12-30       |
| Ethylbenzene |      | µg/L  | 50.0                  | 52.6                   | 105                         | 80 - 120                      | 2010-12-30       |
| m,p-Xylene   |      | µg/L  | 100                   | 106                    | 106                         | 80 - 120                      | 2010-12-30       |
| o-Xylene     |      | µg/L  | 50.0                  | 52.7                   | 105                         | 80 - 120                      | 2010-12-30       |

#### Standard (CCV-2)

QC Batch: 76629

Date Analyzed: 2010-12-30

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | µg/L  | 50.0                  | 52.6                   | 105                         | 80 - 120                      | 2010-12-30       |
| Toluene      |      | µg/L  | 50.0                  | 53.2                   | 106                         | 80 - 120                      | 2010-12-30       |
| Ethylbenzene |      | µg/L  | 50.0                  | 54.3                   | 109                         | 80 - 120                      | 2010-12-30       |
| m,p-Xylene   |      | µg/L  | 100                   | 109                    | 109                         | 80 - 120                      | 2010-12-30       |
| o-Xylene     |      | µg/L  | 50.0                  | 53.9                   | 108                         | 80 - 120                      | 2010-12-30       |

#### Standard (CCV-1)

QC Batch: 76743

Date Analyzed: 2011-01-07

Analyzed By: MN

| Param               | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Naphthalene         |      | mg/L  | 60.0                  | 52.0                   | 87                          | 80 - 120                      | 2011-01-07       |
| 2-Methylnaphthalene |      | mg/L  | 60.0                  | 52.8                   | 88                          | 80 - 120                      | 2011-01-07       |
| 1-Methylnaphthalene |      | mg/L  | 60.0                  | 51.2                   | 85                          | 80 - 120                      | 2011-01-07       |
| Acenaphthylene      |      | mg/L  | 60.0                  | 50.5                   | 84                          | 80 - 120                      | 2011-01-07       |
| Acenaphthene        |      | mg/L  | 60.0                  | 52.2                   | 87                          | 80 - 120                      | 2011-01-07       |
| Dibenzofuran        |      | mg/L  | 60.0                  | 56.6                   | 94                          | 80 - 120                      | 2011-01-07       |

*continued ...*

standard continued ...

| Param                  | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Fluorene               |      | mg/L  | 60.0                  | 56.9                   | 95                          | 80 - 120                      | 2011-01-07       |
| Anthracene             |      | mg/L  | 60.0                  | 49.2                   | 82                          | 80 - 120                      | 2011-01-07       |
| Phenanthrene           |      | mg/L  | 60.0                  | 53.0                   | 88                          | 80 - 120                      | 2011-01-07       |
| Fluoranthene           |      | mg/L  | 60.0                  | 51.0                   | 85                          | 80 - 120                      | 2011-01-07       |
| Pyrene                 |      | mg/L  | 60.0                  | 56.6                   | 94                          | 80 - 120                      | 2011-01-07       |
| Benzo(a)anthracene     |      | mg/L  | 60.0                  | 54.0                   | 90                          | 80 - 120                      | 2011-01-07       |
| Chrysene               |      | mg/L  | 60.0                  | 48.3                   | 80                          | 80 - 120                      | 2011-01-07       |
| Benzo(b)fluoranthene   |      | mg/L  | 60.0                  | 55.5                   | 92                          | 80 - 120                      | 2011-01-07       |
| Benzo(k)fluoranthene   |      | mg/L  | 60.0                  | 48.9                   | 82                          | 80 - 120                      | 2011-01-07       |
| Benzo(a)pyrene         |      | mg/L  | 60.0                  | 53.5                   | 89                          | 80 - 120                      | 2011-01-07       |
| Indeno(1,2,3-cd)pyrene |      | mg/L  | 60.0                  | 52.9                   | 88                          | 80 - 120                      | 2011-01-07       |
| Dibenzo(a,h)anthracene |      | mg/L  | 60.0                  | 53.0                   | 88                          | 80 - 120                      | 2011-01-07       |
| Benzo(g,h,i)perylene   |      | mg/L  | 60.0                  | 55.5                   | 92                          | 80 - 120                      | 2011-01-07       |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |      | 65.3   | mg/L  | 1        | 60.0            | 109                 | 80 - 120          |
| 2-Fluorobiphenyl |      | 52.9   | mg/L  | 1        | 60.0            | 88                  | 80 - 120          |
| Terphenyl-d14    |      | 59.6   | mg/L  | 1        | 60.0            | 99                  | 80 - 120          |

LAB Order ID # 10123015

Page 2 of 2

# TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

BioAqualic Testing  
2501 Mayes Rd., Ste. 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

Company Name: BBC International Phone #: (757) 3970397  
Address: (Street, City, Zip) 1324 W. Maryland Fax #: (757) 3970397  
Contact Person: Cliff Brunson E-mail: \_\_\_\_\_  
Invoice to: \_\_\_\_\_  
(If different from above)  
Project #: \_\_\_\_\_

Project Name: WESTGATE  
Project Location (including state): HOBBS NM 88240  
Sampler Signature: [Signature]

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     |      | SAMPLING |        | DATE | TIME | Turn Around Time if d |
|-------------------------|------------|--------------|-----------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|------|----------|--------|------|------|-----------------------|
|                         |            |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE |          |        |      |      |                       |
| 35481                   | MW # 10    | 3            | VQA             | ✓      |      |     |        | ✓                   |                  |                                |      | ✓   |      |          | 1100   | 1100 |      |                       |
|                         | MW # 10    | 1            | 14              | ✓      |      |     |        |                     |                  |                                |      | ✓   |      |          | 1100   |      |      |                       |
| 482                     | MW # 9     | 3            | VQA             | ✓      |      |     |        | ✓                   |                  |                                |      | ✓   |      |          | 1155   |      |      |                       |
|                         | MW # 9     | 1            | 14              | ✓      |      |     |        |                     |                  |                                |      | ✓   |      |          | 1155   |      |      |                       |
| 483                     | MW # 8     | 3            | VQA             | ✓      |      |     |        | ✓                   |                  |                                |      | ✓   |      |          | 1240   |      |      |                       |
|                         | MW # 8     | 1            | 14              | ✓      |      |     |        |                     |                  |                                |      | ✓   |      |          | 1240   |      |      |                       |
| 484                     | MW # 4     | 3            | VQA             | ✓      |      |     |        | ✓                   |                  |                                |      | ✓   |      |          | 215    |      |      |                       |
|                         | MW # 4     | 1            | 14              | ✓      |      |     |        |                     |                  |                                |      | ✓   |      |          | 215    |      |      |                       |
| 485                     | MW # 6     | 3            | VQA             | ✓      |      |     |        | ✓                   |                  |                                |      | ✓   |      |          | 257    |      |      |                       |
|                         | MW # 6     | 1            | 14              | ✓      |      |     |        |                     |                  |                                |      | ✓   |      |          | 257    |      |      |                       |
| 486                     | MW # 11    | 3            | VQA             | ✓      |      |     |        | ✓                   |                  |                                |      | ✓   |      |          | 257    |      |      |                       |
|                         | MW # 11    | 1            | 14              | ✓      |      |     |        |                     |                  |                                |      | ✓   |      |          | 257    |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          | 122840 | 300  |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |
|                         |            |              |                 |        |      |     |        |                     |                  |                                |      |     |      |          |        |      |      |                       |

Relinquished by: BBC Date: 12/28/10 Time: 5:00  
Relinquished by: BBC Date: 12/30/10 Time: 10:15  
Relinquished by: SMC Date: 12/30/10 Time: 10:15

Received by: SMC Date: 12/30/10 Time: 10:15  
Received by: SMC Date: 12/30/10 Time: 10:15

Company: BBC Date: 12/28/10 Time: 5:00  
Company: BBC Date: 12/30/10 Time: 10:15  
Company: SMC Date: 12/30/10 Time: 10:15

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

LAB USE ONLY  
Intergral N. \_\_\_\_\_  
Headspace Y/N \_\_\_\_\_  
Log-in-Review \_\_\_\_\_

REMARKS: Will re-sample MW10 + MW11 BTEX

Dry Weight Basis Required ☐  
TRRP Report Required ☐  
Check if Special Reporting Limits Are Needed ☐

Carrier # FedEx 7966 0685 0420

## ANALYSIS REQUEST (Circle or Specify Method No.)

|                                             |   |                                      |   |                           |   |                 |   |                                                 |   |                                     |   |                |   |                     |   |                 |   |     |   |                       |   |                             |   |                  |   |                       |   |              |   |                  |   |                                                                           |   |                        |   |      |   |
|---------------------------------------------|---|--------------------------------------|---|---------------------------|---|-----------------|---|-------------------------------------------------|---|-------------------------------------|---|----------------|---|---------------------|---|-----------------|---|-----|---|-----------------------|---|-----------------------------|---|------------------|---|-----------------------|---|--------------|---|------------------|---|---------------------------------------------------------------------------|---|------------------------|---|------|---|
| MTBE 8021 / 6021 / 8260 / 624               | ✓ | TPH 418.1 / TX1005 / TX1005 Ext(C35) | ✓ | TPH 8015 GRO / DRO / TVHC | ✓ | PAH 418.1 / 625 | ✓ | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7 | ✓ | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | ✓ | TCLP Volatiles | ✓ | TCLP Semi Volatiles | ✓ | TCLP Pesticides | ✓ | RCI | ✓ | GC/MS Vol. 8260 / 624 | ✓ | GC/MS Semi. Vol. 8270 / 625 | ✓ | PCB's 8082 / 608 | ✓ | Pesticides 8081 / 608 | ✓ | BOD, TSS, pH | ✓ | Moisture Content | ✓ | Cl, F, S, O <sub>4</sub> , NO <sub>3</sub> , NO <sub>2</sub> , Alkalinity | ✓ | Na, Ca, Mg, K, TDS, EC | ✓ | Hold | ✓ |
| Turn Around Time if different from standard |   |                                      |   |                           |   |                 |   |                                                 |   |                                     |   |                |   |                     |   |                 |   |     |   |                       |   |                             |   |                  |   |                       |   |              |   |                  |   |                                                                           |   |                        |   |      |   |

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.



## TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-12965002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443BioAquatic Testing  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

Company Name: ABC International Phone #: (575) 3970397

Address: (Street, City, Zip) 1324 W. Mainland Fax #: (575) 3970397

Contact Person: Cliff Brunson E-mail:

Invoice to:

(if different from above)

Project #:

Project Name: WESTGATE

Project Location (including state): HOBBS NM 88240

Sampler Signature: [Signature]

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |     | SAMPLING |      |
|-------------------------|------------|--------------|-----------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|-----|----------|------|
|                         |            |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | ICE | DATE     | TIME |
| 85481                   | MW # 10    | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                | ✓   | 12-28-10 | 1100 |
|                         | MW # 10    | 1            | 14              | ✓      |      |     |        |                     |                  |                                |     |          | 1100 |
| 482                     | MW # 9     | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                | ✓   | 1155     | 1155 |
|                         | MW # 9     | 1            | 14              | ✓      |      |     |        |                     |                  |                                |     |          | 1155 |
| 483                     | MW # 8     | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                | ✓   | 1240     | 1240 |
|                         | MW # 8     | 1            | 14              | ✓      |      |     |        |                     |                  |                                |     |          | 1240 |
| 484                     | MW # 4     | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                | ✓   | 1215     | 1215 |
|                         | MW # 4     | 1            | 14              | ✓      |      |     |        |                     |                  |                                |     |          | 1215 |
| 485                     | MW # 6     | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                | ✓   | 1257     | 1257 |
|                         | MW # 6     | 1            | 14              | ✓      |      |     |        |                     |                  |                                |     |          | 1257 |
| 486                     | MW # 11    | 3            | VOA             | ✓      |      |     |        | ✓                   |                  |                                | ✓   | 1228-10  | 300  |

|                              |              |                |            |                          |             |                |             |                        |              |                                         |
|------------------------------|--------------|----------------|------------|--------------------------|-------------|----------------|-------------|------------------------|--------------|-----------------------------------------|
| Relinquished by: [Signature] | Company: ABC | Date: 12-28-10 | Time: 0:00 | Received by: [Signature] | Company: TA | Date: 12/30/10 | Time: 10:15 | INST P OBS 3.1 COR 3.4 | LAB USE ONLY | REMARKS: Will resample MW10 + MW11 BTEX |
| Relinquished by: [Signature] | Company: ABC | Date: 12-28-10 | Time: 0:00 | Received by: [Signature] | Company: TA | Date: 12/30/10 | Time: 10:15 | INST OBS COR           | LAB USE ONLY | REMARKS: Will resample MW10 + MW11 BTEX |
| Relinquished by: [Signature] | Company: ABC | Date: 12-28-10 | Time: 0:00 | Received by: [Signature] | Company: TA | Date: 12/30/10 | Time: 10:15 | INST OBS COR           | LAB USE ONLY | REMARKS: Will resample MW10 + MW11 BTEX |

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

Carrier # FedEx 7966 0685 0420 JAN 10 2011



## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: January 3, 2011

Work Order: 10123109



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 254545 | MW-10       | water  | 2010-12-30 | 12:10      | 2010-12-31    |

### Sample: 254545 - MW-10

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |





6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 517•201•5360  
E-Mail: lab@traceanalysis.com

## Certifications

WBENC: 237019

HUB: 1752439743100-86536  
NCTRCA WFWB38444Y0909

DBE: VN 20657

## NELAP Certifications

Lubbock: T104704219-08-TX  
LELAP-02003  
Kansas E-10317

El Paso: T104704221-08-TX  
LELAP-02002

Midland: T104704392-08-TX

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: January 3, 2011

Work Order: 10123109



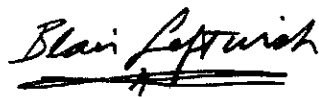
GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 254545 | MW-10       | water  | 2010-12-30 | 12:10      | 2010-12-31    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a horizontal line underneath.

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

#### Standard Flags

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Westgate were received by TraceAnalysis, Inc. on 2010-12-31 and assigned to work order 10123109. Samples for work order 10123109 were received intact without headspace and at a temperature of 2.9 C.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method   | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|-----------|----------|---------------|---------------------|-------------|---------------------|
| Volatiles | S 8260 C | 65720         | 2011-12-31 at 12:00 | 76649       | 2011-12-31 at 12:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10123109 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

## Analytical Report

Sample: 254545 - MW-10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 76649  
Prep Batch: 65720

Analytical Method: S 8260 C  
Date Analyzed: 2011-12-31  
Sample Preparation: 2011-12-31

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 53.4   | µg/L  | 1        | 50.0            | 107                 | 70 - 130           |
| Toluene-d8                   |      | 50.3   | µg/L  | 1        | 50.0            | 101                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 47.5   | µg/L  | 1        | 50.0            | 95                  | 70 - 130           |

Method Blank (1)      QC Batch: 76649

QC Batch: 76649  
Prep Batch: 65720

Date Analyzed: 2011-12-31  
QC Preparation: 2011-12-31

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | MDL<br>Result | Units | RL |
|--------------|------|---------------|-------|----|
| Benzene      |      | <0.200        | µg/L  | 1  |
| Toluene      |      | <0.200        | µg/L  | 1  |
| Ethylbenzene |      | <0.140        | µg/L  | 1  |
| m,p-Xylene   |      | <0.270        | µg/L  | 1  |
| o-Xylene     |      | <0.120        | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 53.7   | µg/L  | 1        | 50.0            | 107                 | 70 - 130           |
| Toluene-d8                   |      | 50.6   | µg/L  | 1        | 50.0            | 101                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 47.2   | µg/L  | 1        | 50.0            | 94                  | 70 - 130           |

**Laboratory Control Spike (LCS-1)**

QC Batch: 76649  
Prep Batch: 65720

Date Analyzed: 2011-12-31  
QC Preparation: 2011-12-31

Analyzed By: KB  
Prepared By: KB

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|------------|-------|------|--------------|---------------|------|------------|
| Benzene      | 52.0       | µg/L  | 1    | 50.0         | <0.200        | 104  | 78.2 - 119 |
| Toluene      | 52.4       | µg/L  | 1    | 50.0         | <0.200        | 105  | 76.9 - 124 |
| Ethylbenzene | 52.9       | µg/L  | 1    | 50.0         | <0.140        | 106  | 85.2 - 119 |
| m,p-Xylene   | 106        | µg/L  | 1    | 100          | <0.270        | 106  | 84.4 - 120 |
| o-Xylene     | 52.9       | µg/L  | 1    | 50.0         | <0.120        | 106  | 82.5 - 123 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene      | 52.2       | µg/L  | 1    | 50.0         | <0.200        | 104  | 78.2 - 119 | 0   | 20        |
| Toluene      | 52.3       | µg/L  | 1    | 50.0         | <0.200        | 105  | 76.9 - 124 | 0   | 20        |
| Ethylbenzene | 53.4       | µg/L  | 1    | 50.0         | <0.140        | 107  | 85.2 - 119 | 1   | 20        |
| m,p-Xylene   | 107        | µg/L  | 1    | 100          | <0.270        | 107  | 84.4 - 120 | 1   | 20        |
| o-Xylene     | 52.8       | µg/L  | 1    | 50.0         | <0.120        | 106  | 82.5 - 123 | 0   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit |
|------------------------------|------------|------------|-------|------|--------------|----------|----------|------------|
| Dibromofluoromethane         | 53.6       | 53.7       | µg/L  | 1    | 50.0         | 107      | 107      | 70 - 130   |
| Toluene-d8                   | 49.2       | 48.7       | µg/L  | 1    | 50.0         | 98       | 97       | 70 - 130   |
| 4-Bromofluorobenzene (4-BFB) | 50.2       | 50.1       | µg/L  | 1    | 50.0         | 100      | 100      | 70 - 130   |

**Matrix Spike (MS-1)** Spiked Sample: 254546

QC Batch: 76649  
Prep Batch: 65720

Date Analyzed: 2011-12-31  
QC Preparation: 2011-12-31

Analyzed By: KB  
Prepared By: KB

| Param        | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|-----------|-------|------|--------------|---------------|------|------------|
| Benzene      | 52.6      | µg/L  | 1    | 50.0         | <0.200        | 105  | 70.7 - 125 |
| Toluene      | 52.9      | µg/L  | 1    | 50.0         | <0.200        | 106  | 66.3 - 138 |
| Ethylbenzene | 53.6      | µg/L  | 1    | 50.0         | <0.140        | 107  | 81.6 - 121 |
| m,p-Xylene   | 108       | µg/L  | 1    | 100          | <0.270        | 108  | 80.6 - 121 |
| o-Xylene     | 54.4      | µg/L  | 1    | 50.0         | <0.120        | 109  | 82.4 - 124 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

*continued ...*

*matrix spikes continued ...*

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
| Benzene      | 52.1          | µg/L  | 1    | 50.0            | <0.200           | 104  | 70.7 - 125    | 1   | 20           |
| Toluene      | 52.0          | µg/L  | 1    | 50.0            | <0.200           | 104  | 66.3 - 138    | 2   | 20           |
| Ethylbenzene | 52.0          | µg/L  | 1    | 50.0            | <0.140           | 104  | 81.6 - 121    | 3   | 20           |
| m,p-Xylene   | 104           | µg/L  | 1    | 100             | <0.270           | 104  | 80.6 - 121    | 4   | 20           |
| o-Xylene     | 52.8          | µg/L  | 1    | 50.0            | <0.120           | 106  | 82.4 - 124    | 3   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 53.5         | 53.4          | µg/L  | 1    | 50              | 107        | 107         | 70 - 130      |
| Toluene-d8                   | 49.1         | 48.9          | µg/L  | 1    | 50              | 98         | 98          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 50.5         | 50.3          | µg/L  | 1    | 50              | 101        | 101         | 70 - 130      |

**Standard (CCV-1)**

QC Batch: 76649

Date Analyzed: 2011-12-31

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | µg/L  | 50.0                  | 52.6                   | 105                         | 80 - 120                      | 2011-12-31       |
| Toluene      |      | µg/L  | 50.0                  | 53.0                   | 106                         | 80 - 120                      | 2011-12-31       |
| Ethylbenzene |      | µg/L  | 50.0                  | 54.0                   | 108                         | 80 - 120                      | 2011-12-31       |
| m,p-Xylene   |      | µg/L  | 100                   | 108                    | 108                         | 80 - 120                      | 2011-12-31       |
| o-Xylene     |      | µg/L  | 50.0                  | 53.8                   | 108                         | 80 - 120                      | 2011-12-31       |







# APPENDIX IV

---

**TRACE ANALYSIS, INC.**  
Laboratory Results 2011

Westgate Subdivision  
Grimes Battery & Tasker Road

**August 2012**

Shell Exploration & Production Company  
Houston, Texas

Prepared by:  
BBC International, Inc.

## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: April 5, 2011

Work Order: 11040121



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 262421 | MW #10      | water  | 2011-03-29 | 10:35      | 2011-04-01    |
| 262422 | MW #8       | water  | 2011-03-29 | 11:40      | 2011-04-01    |
| 262423 | MW #9       | water  | 2011-03-29 | 12:38      | 2011-04-01    |

**Sample: 262421 - MW #10**

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

**Sample: 262422 - MW #8**

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

---

Sample: 262423 - MW #9

| Param        | Flag | Result | Units | RL   |
|--------------|------|--------|-------|------|
| Benzene      |      | <1.00  | µg/L  | 1.00 |
| Toluene      |      | <1.00  | µg/L  | 1.00 |
| Ethylbenzene |      | <1.00  | µg/L  | 1.00 |
| m,p-Xylene   |      | <1.00  | µg/L  | 1.00 |
| o-Xylene     |      | <1.00  | µg/L  | 1.00 |

---



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBENC: 237019

HUB: 1752439743100-86536  
NCTRCA WFWB38444Y0909

DBE: VN 20657

## NELAP Certifications

Lubbock: T104704219-08-TX  
LELAP-02003  
Kansas E-10317

El Paso: T104704221-08-TX  
LELAP-02002

Midland: T104704392-08-TX

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: April 5, 2011

Work Order: 11040121



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 262421 | MW #10      | water  | 2011-03-29 | 10:35      | 2011-04-01    |
| 262422 | MW #8       | water  | 2011-03-29 | 11:40      | 2011-04-01    |
| 262423 | MW #9       | water  | 2011-03-29 | 12:38      | 2011-04-01    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 7 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive style with a large, stylized 'M' and 'A'.

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

**Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.

## Case Narrative

Samples for project Westgate were received by TraceAnalysis, Inc. on 2011-04-01 and assigned to work order 11040121. Samples for work order 11040121 were received intact without headspace and at a temperature of 6.1 C.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method   | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|-----------|----------|---------------|---------------------|-------------|---------------------|
| Volatiles | S 8260 C | 67909         | 2011-04-01 at 12:00 | 80040       | 2011-04-01 at 12:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11040121 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

Sample was received on mostly melted ice.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: April 5, 2011  
Westgate

Work Order: 11040121  
Westgate

Page Number: 4 of 7  
Hobbs, NM

## Analytical Report

Sample: 262421 - MW #10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 80040  
Prep Batch: 67909

Analytical Method: S 8260 C  
Date Analyzed: 2011-04-01  
Sample Preparation: 2011-04-01

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 47.2   | µg/L  | 1        | 50.0            | 94                  | 70 - 130           |
| Toluene-d8                   |      | 57.9   | µg/L  | 1        | 50.0            | 116                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 50.4   | µg/L  | 1        | 50.0            | 101                 | 70 - 130           |

Sample: 262422 - MW #8

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 80040  
Prep Batch: 67909

Analytical Method: S 8260 C  
Date Analyzed: 2011-04-01  
Sample Preparation: 2011-04-01

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 47.3   | µg/L  | 1        | 50.0            | 95                  | 70 - 130           |
| Toluene-d8                   |      | 57.2   | µg/L  | 1        | 50.0            | 114                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 50.7   | µg/L  | 1        | 50.0            | 101                 | 70 - 130           |

Report Date: April 5, 2011  
Westgate

Work Order: 11040121  
Westgate

Page Number: 5 of 7  
Hobbs, NM

**Sample: 262423 - MW #9**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 80040  
Prep Batch: 67909

Analytical Method: S 8260 C  
Date Analyzed: 2011-04-01  
Sample Preparation: 2011-04-01

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | RL<br>Result | Units | Dilution | RL   |
|--------------|------|--------------|-------|----------|------|
| Benzene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 46.8   | µg/L  | 1        | 50.0            | 94                  | 70 - 130           |
| Toluene-d8                   |      | 56.8   | µg/L  | 1        | 50.0            | 114                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 50.5   | µg/L  | 1        | 50.0            | 101                 | 70 - 130           |

**Method Blank (1)      QC Batch: 80040**

QC Batch: 80040  
Prep Batch: 67909

Date Analyzed: 2011-04-01  
QC Preparation: 2011-04-01

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | MDL<br>Result | Units | RL |
|--------------|------|---------------|-------|----|
| Benzene      |      | <0.240        | µg/L  | 1  |
| Toluene      |      | <0.260        | µg/L  | 1  |
| Ethylbenzene |      | <0.230        | µg/L  | 1  |
| m,p-Xylene   |      | <0.470        | µg/L  | 1  |
| o-Xylene     |      | <0.240        | µg/L  | 1  |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      | 46.7   | µg/L  | 1        | 50.0            | 93                  | 70 - 130           |
| Toluene-d8                   |      | 57.0   | µg/L  | 1        | 50.0            | 114                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 50.7   | µg/L  | 1        | 50.0            | 101                 | 70 - 130           |

**Laboratory Control Spike (LCS-1)**

QC Batch: 80040  
Prep Batch: 67909

Date Analyzed: 2011-04-01  
QC Preparation: 2011-04-01

Analyzed By: KB  
Prepared By: KB



Report Date: April 5, 2011  
Westgate

Work Order: 11040121  
Westgate

Page Number: 6 of 7  
Hobbs, NM

| Param        | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 43.4          | µg/L  | 1    | 50.0            | <0.240           | 87   | 78.2 - 119    |
| Toluene      | 43.8          | µg/L  | 1    | 50.0            | <0.260           | 88   | 76.9 - 124    |
| Ethylbenzene | 52.4          | µg/L  | 1    | 50.0            | <0.230           | 105  | 85.2 - 119    |
| m,p-Xylene   | 105           | µg/L  | 1    | 100             | <0.470           | 105  | 84.4 - 120    |
| o-Xylene     | 53.8          | µg/L  | 1    | 50.0            | <0.240           | 108  | 82.5 - 123    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 44.1           | µg/L  | 1    | 50.0            | <0.240           | 88   | 78.2 - 119    | 2   |              |
| Toluene      | 44.4           | µg/L  | 1    | 50.0            | <0.260           | 89   | 76.9 - 124    | 1   |              |
| Ethylbenzene | 53.3           | µg/L  | 1    | 50.0            | <0.230           | 107  | 85.2 - 119    | 2   |              |
| m,p-Xylene   | 107            | µg/L  | 1    | 100             | <0.470           | 107  | 84.4 - 120    | 2   |              |
| o-Xylene     | 54.3           | µg/L  | 1    | 50.0            | <0.240           | 109  | 82.5 - 123    | 1   |              |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Dibromofluoromethane         | 46.7          | 47.0           | µg/L  | 1    | 50.0            | 93          | 94           | 70 - 130      |
| Toluene-d8                   | 56.3          | 56.2           | µg/L  | 1    | 50.0            | 113         | 112          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 52.3          | 52.6           | µg/L  | 1    | 50.0            | 105         | 105          | 70 - 130      |

**Matrix Spike (xMS-1) Spiked Sample:**

QC Batch: 80040  
Prep Batch: 67909

Date Analyzed: 2011-04-01  
QC Preparation: 2011-04-01

Analyzed By: KB  
Prepared By: KB

| Param        | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      | 44.5         | µg/L  | 1    | 50.0            | <0.240           | 89   | 70.7 - 125    |
| Toluene      | 44.7         | µg/L  | 1    | 50.0            | <0.260           | 89   | 66.3 - 138    |
| Ethylbenzene | 53.5         | µg/L  | 1    | 50.0            | <0.230           | 107  | 81.6 - 121    |
| m,p-Xylene   | 106          | µg/L  | 1    | 100             | <0.470           | 106  | 80.6 - 121    |
| o-Xylene     | 54.3         | µg/L  | 1    | 50.0            | <0.240           | 109  | 82.4 - 124    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      | 44.4          | µg/L  | 1    | 50.0            | <0.240           | 89   | 70.7 - 125    | 0   | 20           |
| Toluene      | 44.7          | µg/L  | 1    | 50.0            | <0.260           | 89   | 66.3 - 138    | 0   | 20           |
| Ethylbenzene | 53.5          | µg/L  | 1    | 50.0            | <0.230           | 107  | 81.6 - 121    | 0   | 20           |
| m,p-Xylene   | 107           | µg/L  | 1    | 100             | <0.470           | 107  | 80.6 - 121    | 1   | 20           |
| o-Xylene     | 54.6          | µg/L  | 1    | 50.0            | <0.240           | 109  | 82.4 - 124    | 1   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: April 5, 2011  
Westgate

Work Order: 11040121  
Westgate

Page Number: 7 of 7  
Hobbs, NM

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 46.8         | 46.6          | µg/L  | 1    | 50              | 94         | 93          | 70 - 130      |
| Toluene-d8                   | 56.4         | 56.8          | µg/L  | 1    | 50              | 113        | 114         | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 52.6         | 52.7          | µg/L  | 1    | 50              | 105        | 105         | 70 - 130      |

**Standard (CCV-1)**

QC Batch: 80040

Date Analyzed: 2011-04-01

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | µg/L  | 50.0                  | 43.8                   | 88                          | 80 - 120                      | 2011-04-01       |
| Toluene      |      | µg/L  | 50.0                  | 44.3                   | 89                          | 80 - 120                      | 2011-04-01       |
| Ethylbenzene |      | µg/L  | 50.0                  | 52.3                   | 105                         | 80 - 120                      | 2011-04-01       |
| m,p-Xylene   |      | µg/L  | 100                   | 106                    | 106                         | 80 - 120                      | 2011-04-01       |
| o-Xylene     |      | µg/L  | 50.0                  | 54.0                   | 108                         | 80 - 120                      | 2011-04-01       |



## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: July 5, 2011

Work Order: 11070127



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 271052 | MW #10      | water  | 2011-06-28 | 13:30      | 2011-07-01    |
| 271053 | MW #8       | water  | 2011-06-28 | 14:40      | 2011-07-01    |
| 271054 | MW #9       | water  | 2011-06-28 | 15:25      | 2011-07-01    |

**Sample: 271052 - MW #10**

| Param        | Flag | Result | Units | RL |
|--------------|------|--------|-------|----|
| Benzene      |      | <1.00  | µg/L  | 1  |
| Toluene      |      | <1.00  | µg/L  | 1  |
| Ethylbenzene |      | <1.00  | µg/L  | 1  |
| m,p-Xylene   |      | <1.00  | µg/L  | 1  |
| o-Xylene     |      | <1.00  | µg/L  | 1  |

**Sample: 271053 - MW #8**

| Param        | Flag | Result | Units | RL |
|--------------|------|--------|-------|----|
| Benzene      |      | <1.00  | µg/L  | 1  |
| Toluene      |      | <1.00  | µg/L  | 1  |
| Ethylbenzene |      | <1.00  | µg/L  | 1  |
| m,p-Xylene   |      | <1.00  | µg/L  | 1  |
| o-Xylene     |      | <1.00  | µg/L  | 1  |

**Sample: 271054 - MW #9**

| Param        | Flag | Result | Units | RL |
|--------------|------|--------|-------|----|
| Benzene      |      | <1.00  | µg/L  | 1  |
| Toluene      |      | <1.00  | µg/L  | 1  |
| Ethylbenzene |      | <1.00  | µg/L  | 1  |
| m,p-Xylene   |      | <1.00  | µg/L  | 1  |
| o-Xylene     |      | <1.00  | µg/L  | 1  |



6701 Aberdeen Avenue, Suite 8 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: July 5, 2011

Work Order: 11070127



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 271052 | MW #10      | water  | 2011-06-28 | 13:30      | 2011-07-01    |
| 271053 | MW #8       | water  | 2011-06-28 | 14:40      | 2011-07-01    |
| 271054 | MW #9       | water  | 2011-06-28 | 15:25      | 2011-07-01    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

# Report Contents

|                                             |           |
|---------------------------------------------|-----------|
| <b>Case Narrative</b>                       | <b>4</b>  |
| <b>Analytical Report</b>                    | <b>5</b>  |
| Sample 271052 (MW #10) . . . . .            | 5         |
| Sample 271053 (MW #8) . . . . .             | 5         |
| Sample 271054 (MW #9) . . . . .             | 6         |
| <b>Method Blanks</b>                        | <b>7</b>  |
| QC Batch 82743 - Method Blank (1) . . . . . | 7         |
| <b>Laboratory Control Spikes</b>            | <b>8</b>  |
| QC Batch 82743 - LCS (1) . . . . .          | 8         |
| QC Batch 82743 - xMS (1) . . . . .          | 8         |
| <b>Calibration Standards</b>                | <b>10</b> |
| QC Batch 82743 - CCV (1) . . . . .          | 10        |
| <b>Appendix</b>                             | <b>11</b> |
| Laboratory Certifications . . . . .         | 11        |
| Standard Flags . . . . .                    | 11        |
| Attachments . . . . .                       | 11        |



## Case Narrative

Samples for project Westgate were received by TraceAnalysis, Inc. on 2011-07-01 and assigned to work order 11070127. Samples for work order 11070127 were received intact without headspace and at a temperature of 4.2 C.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method   | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|-----------|----------|---------------|---------------------|-------------|---------------------|
| Volatiles | S 8260 C | 70280         | 2011-07-01 at 12:00 | 82743       | 2011-07-01 at 12:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11070127 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: July 5, 2011  
Westgate

Work Order: 11070127  
Westgate

Page Number: 5 of 11  
Hobbs, NM

## Analytical Report

### Sample: 271052 - MW #10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 82743  
Prep Batch: 70280

Analytical Method: S 8260 C  
Date Analyzed: 2011-07-01  
Sample Preparation: 2011-07-01

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      |      | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 53.2   | µg/L  | 1        | 50.0            | 106                 | 70 - 130           |
| Toluene-d8                   |      |      | 54.3   | µg/L  | 1        | 50.0            | 109                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 47.5   | µg/L  | 1        | 50.0            | 95                  | 70 - 130           |

### Sample: 271053 - MW #8

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 82743  
Prep Batch: 70280

Analytical Method: S 8260 C  
Date Analyzed: 2011-07-01  
Sample Preparation: 2011-07-01

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      |      | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate            | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|----------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane |      |      | 54.2   | µg/L  | 1        | 50.0            | 108                 | 70 - 130           |
| Toluene-d8           |      |      | 54.0   | µg/L  | 1        | 50.0            | 108                 | 70 - 130           |

continued ...

Report Date: July 5, 2011  
Westgate

Work Order: 11070127  
Westgate

Page Number: 6 of 11  
Hobbs, NM

sample continued ...

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| 4-Bromofluorobenzene (4-BFB) |      |      | 48.9   | µg/L  | 1        | 50.0         | 98               | 70 - 130        |

**Sample: 271054 - MW #9**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 82743  
Prep Batch: 70280

Analytical Method: S 8260 C  
Date Analyzed: 2011-07-01  
Sample Preparation: 2011-07-01

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      |      | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene |      | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   |      | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     |      | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      |      | 54.4   | µg/L  | 1        | 50.0         | 109              | 70 - 130        |
| Toluene-d8                   |      |      | 54.7   | µg/L  | 1        | 50.0         | 109              | 70 - 130        |
| 4-Bromofluorobenzene (4-BFB) |      |      | 48.5   | µg/L  | 1        | 50.0         | 97               | 70 - 130        |

Report Date: July 5, 2011  
Westgate

Work Order: 11070127  
Westgate

Page Number: 7 of 11  
Hobbs, NM

## Method Blanks

Method Blank (1)      QC Batch: 82743

QC Batch: 82743  
Prep Batch: 70280

Date Analyzed: 2011-07-01  
QC Preparation: 2011-07-01

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL |
|--------------|------|------|---------------|-------|----|
| MTBE         |      | 1    | <0.220        | µg/L  | 1  |
| Benzene      |      | 1    | <0.240        | µg/L  | 1  |
| Toluene      |      | 1    | <0.260        | µg/L  | 1  |
| Ethylbenzene |      | 1    | <0.230        | µg/L  | 1  |
| m,p-Xylene   |      | 1    | <0.470        | µg/L  | 1  |
| o-Xylene     |      | 1    | <0.240        | µg/L  | 1  |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 53.6   | µg/L  | 1        | 50.0            | 107                 | 70 - 130           |
| Toluene-d8                   |      |      | 54.0   | µg/L  | 1        | 50.0            | 108                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 49.3   | µg/L  | 1        | 50.0            | 99                  | 70 - 130           |

Report Date: July 5, 2011  
Westgate

Work Order: 11070127  
Westgate

Page Number: 8 of 11  
Hobbs, NM

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 82743  
Prep Batch: 70280

Date Analyzed: 2011-07-01  
QC Preparation: 2011-07-01

Analyzed By: KB  
Prepared By: KB

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| MTBE         |   | 1 | 48.0          | µg/L  | 1    | 50.0            | <0.220           | 96   | 72.7 - 136    |
| Benzene      |   | 1 | 49.4          | µg/L  | 1    | 50.0            | <0.240           | 99   | 78.2 - 119    |
| Toluene      |   | 1 | 49.6          | µg/L  | 1    | 50.0            | <0.260           | 99   | 76.9 - 124    |
| Ethylbenzene |   | 1 | 51.1          | µg/L  | 1    | 50.0            | <0.230           | 102  | 85.2 - 119    |
| m,p-Xylene   |   | 1 | 105           | µg/L  | 1    | 100             | <0.470           | 105  | 84.4 - 120    |
| o-Xylene     |   | 1 | 53.3          | µg/L  | 1    | 50.0            | <0.240           | 107  | 82.5 - 123    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| MTBE         |   | 1 | 48.6          | µg/L  | 1    | 50.0            | <0.220           | 97   | 72.7 - 136    | 1   |              |
| Benzene      |   | 1 | 50.7          | µg/L  | 1    | 50.0            | <0.240           | 101  | 78.2 - 119    | 3   |              |
| Toluene      |   | 1 | 50.4          | µg/L  | 1    | 50.0            | <0.260           | 101  | 76.9 - 124    | 2   |              |
| Ethylbenzene |   | 1 | 51.8          | µg/L  | 1    | 50.0            | <0.230           | 104  | 85.2 - 119    | 1   |              |
| m,p-Xylene   |   | 1 | 105           | µg/L  | 1    | 100             | <0.470           | 105  | 84.4 - 120    | 0   |              |
| o-Xylene     |   | 1 | 53.6          | µg/L  | 1    | 50.0            | <0.240           | 107  | 82.5 - 123    | 1   |              |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Dibromofluoromethane         | 52.8          | 52.3          | µg/L  | 1    | 50.0            | 106         | 105         | 70 - 130      |
| Toluene-d8                   | 51.5          | 51.4          | µg/L  | 1    | 50.0            | 103         | 103         | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 53.5          | 53.0          | µg/L  | 1    | 50.0            | 107         | 106         | 70 - 130      |

### Matrix Spike (xMS-1) Spiked Sample:

QC Batch: 82743  
Prep Batch: 70280

Date Analyzed: 2011-07-01  
QC Preparation: 2011-07-01

Analyzed By: KB  
Prepared By: KB

*continued ...*

matrix spikes continued ...

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
| MTBE         |   | 1 | 45.9         | µg/L  | 1    | 50.0            | <0.220           | 92   | 61.9 - 143    |
| Benzene      |   | 1 | 48.9         | µg/L  | 1    | 50.0            | <0.240           | 98   | 70.7 - 125    |
| Toluene      |   | 1 | 48.1         | µg/L  | 1    | 50.0            | <0.260           | 96   | 66.3 - 138    |
| Ethylbenzene |   | 1 | 49.7         | µg/L  | 1    | 50.0            | <0.230           | 99   | 81.6 - 121    |
| m,p-Xylene   |   | 1 | 102          | µg/L  | 1    | 100             | <0.470           | 102  | 80.6 - 121    |
| o-Xylene     |   | 1 | 52.2         | µg/L  | 1    | 50.0            | <0.240           | 104  | 82.4 - 124    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| MTBE         |   | 1 | 43.6          | µg/L  | 1    | 50.0            | <0.220           | 87   | 61.9 - 143    | 5   | 20           |
| Benzene      |   | 1 | 48.7          | µg/L  | 1    | 50.0            | <0.240           | 97   | 70.7 - 125    | 0   | 20           |
| Toluene      |   | 1 | 48.0          | µg/L  | 1    | 50.0            | <0.260           | 96   | 66.3 - 138    | 0   | 20           |
| Ethylbenzene |   | 1 | 49.6          | µg/L  | 1    | 50.0            | <0.230           | 99   | 81.6 - 121    | 0   | 20           |
| m,p-Xylene   |   | 1 | 102           | µg/L  | 1    | 100             | <0.470           | 102  | 80.6 - 121    | 0   | 20           |
| o-Xylene     |   | 1 | 52.2          | µg/L  | 1    | 50.0            | <0.240           | 104  | 82.4 - 124    | 0   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 53.9         | 53.4          | µg/L  | 1    | 50              | 108        | 107         | 70 - 130      |
| Toluene-d8                   | 51.3         | 52.3          | µg/L  | 1    | 50              | 103        | 105         | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 53.5         | 52.0          | µg/L  | 1    | 50              | 107        | 104         | 70 - 130      |

Report Date: July 5, 2011  
Westgate

Work Order: 11070127  
Westgate

Page Number: 10 of 11  
Hobbs, NM

## Calibration Standards

### Standard (CCV-1)

QC Batch: 82743

Date Analyzed: 2011-07-01

Analyzed By: KB

| Param        | Flag | Cert | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | 1    | µg/L  | 50.0                  | 47.2                   | 94                          | 80 - 120                      | 2011-07-01       |
| Benzene      |      | 1    | µg/L  | 50.0                  | 49.6                   | 99                          | 80 - 120                      | 2011-07-01       |
| Toluene      |      | 1    | µg/L  | 50.0                  | 50.0                   | 100                         | 80 - 120                      | 2011-07-01       |
| Ethylbenzene |      | 1    | µg/L  | 50.0                  | 52.0                   | 104                         | 80 - 120                      | 2011-07-01       |
| m,p-Xylene   |      | 1    | µg/L  | 100                   | 106                    | 106                         | 80 - 120                      | 2011-07-01       |
| o-Xylene     |      | 1    | µg/L  | 50.0                  | 53.6                   | 107                         | 80 - 120                      | 2011-07-01       |

## Appendix

### Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704219-11-TX     | Lubbock             |

### Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |
| Qsr | Surrogate recovery outside of laboratory limits.                                                                                                                                                                                    |
| U   | The analyte is not detected above the SDL                                                                                                                                                                                           |

### Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.



# TraceAnalysis, Inc.

email: [lab@traceanalysis.com](mailto:lab@traceanalysis.com)

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

**BloAquatic Testing**  
2501 Mayes Rd., Ste 100  
**Carrollton, Texas 75006**  
Tel (972) 242-7750

**Company Name:**

Address: BBC International

Address: \_\_\_\_\_ (Street, City, Zip)

Address: \_\_\_\_\_  
(Street, City, Zip) \_\_\_\_\_  
1324 W. MARLAND \_\_\_\_\_  
Contact Person: \_\_\_\_\_

**Contact Person:**

Contact Person: Chad Brunson

Invoice to: \_\_\_\_\_

**Invoice to:**

**(If different from above)**

Project #:

**Project Name:**

**Project Location (including state):**

Sampler Signature: [Signature]

**Sampler Signature:** \_\_\_\_\_

[illegible]

## ANALYSIS REQUEST

Circle or Specify Method of

|                                                 |                                    |
|-------------------------------------------------|------------------------------------|
| MTBE                                            | 8021 / 602 / 8260 / 624            |
| BTEX                                            | 8021 / 602 / <del>8260</del> / 624 |
| TPH 418.1 / TX1005 / TX1005 Ext(C35)            |                                    |
| TPH 8015 GRO / DRO / TVHC                       |                                    |
| PAH 8270 / 625                                  |                                    |
| Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7 |                                    |
| TCLP Metals Ag As Ba Cd Cr Pb Se Hg             |                                    |
| TCLP Volatiles                                  |                                    |
| TCLP Semi Volatiles                             |                                    |
| TCLP Pesticides                                 |                                    |
| RCI                                             |                                    |
| GC/MS Vol. 8260 / 624                           |                                    |
| GC/MS Semi. Vol. 8270 / 625                     |                                    |
| PCBs 8082 / 608                                 |                                    |
| Pesticides 8081 / 608                           |                                    |
| BOD, TSS, pH                                    |                                    |
| Moisture Content                                |                                    |
| Cl, F, S04, NO3, NO2, Alkalinity                |                                    |
| Na, Ca, Mg, K, TDS, EC                          |                                    |
| Turn Around Time if different from standard     |                                    |
| Hold                                            |                                    |

## REMARKS:

**LAB USE ONLY**

Time: INST D  
OBS 4.7° C  
COR 4.7° C

|              |          |       |
|--------------|----------|-------|
| Received by: | Company: | Date: |
| Received by: | Company: | Date: |

|                                                                                       |          |         |       |
|---------------------------------------------------------------------------------------|----------|---------|-------|
| Relinquished by:                                                                      | Company: | Date:   | Time: |
|  | BBC      | 6-28-11 | 5:00  |
| Relinquished by:                                                                      | Company: | Date:   | Time: |

Time: INST \_\_\_\_\_ OBS \_\_\_\_\_

Received by: \_\_\_\_\_ Date: 10/10/11  
Company: \_\_\_\_\_

Received by: \_\_\_\_\_ Date: \_\_\_\_\_  
Company: \_\_\_\_\_

| Reinquired by: | Company: | Date: | Time: |
|----------------|----------|-------|-------|
| Reinquired by: | Company: | Date: | Time: |

**Dry Weight Basis Required  
TRRP Report Required  
Check If Special Reporting  
Limits Are Needed**

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # FE 7972 5887 7017

## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: October 3, 2011

Work Order: 11093014



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 278704 | MW #10      | water  | 2011-09-28 | 15:00      | 2011-09-30    |
| 278705 | MW #8       | water  | 2011-09-28 | 15:30      | 2011-09-30    |

**Sample: 278704 - MW #10**

| Param        | Flag | Result | Units | RL |
|--------------|------|--------|-------|----|
| Benzene      |      | <1.00  | µg/L  | 1  |
| Toluene      |      | <1.00  | µg/L  | 1  |
| Ethylbenzene |      | <1.00  | µg/L  | 1  |
| m,p-Xylene   |      | <1.00  | µg/L  | 1  |
| o-Xylene     |      | <1.00  | µg/L  | 1  |

**Sample: 278705 - MW #8**

| Param        | Flag | Result | Units | RL |
|--------------|------|--------|-------|----|
| Benzene      |      | <1.00  | µg/L  | 1  |
| Toluene      |      | <1.00  | µg/L  | 1  |
| Ethylbenzene |      | <1.00  | µg/L  | 1  |
| m,p-Xylene   |      | <1.00  | µg/L  | 1  |
| o-Xylene     |      | <1.00  | µg/L  | 1  |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: October 3, 2011

Work Order: 11093014



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 278704 | MW #10      | water  | 2011-09-28 | 15:00      | 2011-09-30    |
| 278705 | MW #8       | water  | 2011-09-28 | 15:30      | 2011-09-30    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

# Report Contents

|                                             |           |
|---------------------------------------------|-----------|
| <b>Case Narrative</b>                       | <b>4</b>  |
| <b>Analytical Report</b>                    | <b>5</b>  |
| Sample 278704 (MW #10) . . . . .            | 5         |
| Sample 278705 (MW #8) . . . . .             | 5         |
| <b>Method Blanks</b>                        | <b>7</b>  |
| QC Batch 85202 - Method Blank (1) . . . . . | 7         |
| <b>Laboratory Control Spikes</b>            | <b>8</b>  |
| QC Batch 85202 - LCS (1) . . . . .          | 8         |
| QC Batch 85202 - MS (1) . . . . .           | 8         |
| <b>Calibration Standards</b>                | <b>10</b> |
| QC Batch 85202 - CCV (2) . . . . .          | 10        |
| <b>Appendix</b>                             | <b>11</b> |
| Laboratory Certifications . . . . .         | 11        |
| Standard Flags . . . . .                    | 11        |
| Attachments . . . . .                       | 11        |

## Case Narrative

Samples for project Westgate were received by TraceAnalysis, Inc. on 2011-09-30 and assigned to work order 11093014. Samples for work order 11093014 were received intact without headspace and at a temperature of 5.8 C.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method   | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|-----------|----------|---------------|---------------------|-------------|---------------------|
| Volatiles | S 8260 C | 72339         | 2011-09-30 at 12:00 | 85202       | 2011-09-30 at 12:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11093014 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: October 3, 2011  
Westgate

Work Order: 11093014  
Westgate

Page Number: 5 of 11  
Hobbs, NM

## Analytical Report

Sample: 278704 - MW #10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 85202  
Prep Batch: 72339

Analytical Method: S 8260 C  
Date Analyzed: 2011-09-30  
Sample Preparation: 2011-09-30

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 51.0   | µg/L  | 1        | 50.0            | 102                 | 70 - 130           |
| Toluene-d8                   |      |      | 54.5   | µg/L  | 1        | 50.0            | 109                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 47.3   | µg/L  | 1        | 50.0            | 95                  | 70 - 130           |

Sample: 278705 - MW #8

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 85202  
Prep Batch: 72339

Analytical Method: S 8260 C  
Date Analyzed: 2011-09-30  
Sample Preparation: 2011-09-30

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate            | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|----------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane |      |      | 51.2   | µg/L  | 1        | 50.0            | 102                 | 70 - 130           |
| Toluene-d8           |      |      | 54.6   | µg/L  | 1        | 50.0            | 109                 | 70 - 130           |

continued ...

Report Date: October 3, 2011  
Westgate

Work Order: 11093014  
Westgate

Page Number: 6 of 11  
Hobbs, NM

*sample continued ...*

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| 4-Bromofluorobenzene (4-BFB) |      |      | 47.5   | µg/L  | 1        | 50.0            | 95                  | 70 - 130           |



Report Date: October 3, 2011  
Westgate

Work Order: 11093014  
Westgate

Page Number: 7 of 11  
Hobbs, NM

## Method Blanks

Method Blank (1)      QC Batch: 85202

QC Batch: 85202  
Prep Batch: 72339

Date Analyzed: 2011-09-30  
QC Preparation: 2011-09-30

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL |
|--------------|------|------|---------------|-------|----|
| MTBE         |      | 1    | <0.220        | µg/L  | 1  |
| Benzene      |      | 1    | <0.240        | µg/L  | 1  |
| Toluene      |      | 1    | <0.260        | µg/L  | 1  |
| Ethylbenzene |      | 1    | <0.230        | µg/L  | 1  |
| m,p-Xylene   |      | 1    | <0.470        | µg/L  | 1  |
| o-Xylene     |      | 1    | <0.240        | µg/L  | 1  |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 50.9   | µg/L  | 1        | 50.0            | 102                 | 70 - 130           |
| Toluene-d8                   |      |      | 53.3   | µg/L  | 1        | 50.0            | 107                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 47.9   | µg/L  | 1        | 50.0            | 96                  | 70 - 130           |

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 85202  
Prep Batch: 72339

Date Analyzed: 2011-09-30  
QC Preparation: 2011-09-30

Analyzed By: KB  
Prepared By: KB

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| MTBE         |   | 1 | 56.0          | µg/L  | 1    | 50.0            | <0.220           | 112  | 72.7 - 136    |
| Benzene      |   | 1 | 55.5          | µg/L  | 1    | 50.0            | <0.240           | 111  | 78.2 - 119    |
| Toluene      |   | 1 | 56.5          | µg/L  | 1    | 50.0            | <0.260           | 113  | 76.9 - 124    |
| Ethylbenzene |   | 1 | 55.7          | µg/L  | 1    | 50.0            | <0.230           | 111  | 85.2 - 119    |
| m,p-Xylene   |   | 1 | 114           | µg/L  | 1    | 100             | <0.470           | 114  | 84.4 - 120    |
| o-Xylene     |   | 1 | 56.4          | µg/L  | 1    | 50.0            | <0.240           | 113  | 82.5 - 123    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| MTBE         |   | 1 | 57.2          | µg/L  | 1    | 50.0            | <0.220           | 114  | 72.7 - 136    | 2   |              |
| Benzene      |   | 1 | 56.5          | µg/L  | 1    | 50.0            | <0.240           | 113  | 78.2 - 119    | 2   |              |
| Toluene      |   | 1 | 57.1          | µg/L  | 1    | 50.0            | <0.260           | 114  | 76.9 - 124    | 1   |              |
| Ethylbenzene |   | 1 | 56.5          | µg/L  | 1    | 50.0            | <0.230           | 113  | 85.2 - 119    | 1   |              |
| m,p-Xylene   |   | 1 | 115           | µg/L  | 1    | 100             | <0.470           | 115  | 84.4 - 120    | 1   |              |
| o-Xylene     |   | 1 | 57.7          | µg/L  | 1    | 50.0            | <0.240           | 115  | 82.5 - 123    | 2   |              |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Dibromofluoromethane         | 50.2          | 50.2          | µg/L  | 1    | 50.0            | 100         | 100         | 70 - 130      |
| Toluene-d8                   | 49.9          | 49.7          | µg/L  | 1    | 50.0            | 100         | 99          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 51.4          | 51.4          | µg/L  | 1    | 50.0            | 103         | 103         | 70 - 130      |

### Matrix Spike (MS-1) Spiked Sample: 278598

QC Batch: 85202  
Prep Batch: 72339

Date Analyzed: 2011-09-30  
QC Preparation: 2011-09-30

Analyzed By: KB  
Prepared By: KB

*continued ...*

matrix spikes continued ...

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
| MTBE         |   | 1 | 61.5         | µg/L  | 1    | 50.0            | 4.14             | 115  | 61.9 - 143    |
| Benzene      |   | 1 | 56.0         | µg/L  | 1    | 50.0            | <0.240           | 112  | 70.7 - 125    |
| Toluene      |   | 1 | 56.5         | µg/L  | 1    | 50.0            | <0.260           | 113  | 66.3 - 138    |
| Ethylbenzene |   | 1 | 55.4         | µg/L  | 1    | 50.0            | <0.230           | 111  | 81.6 - 121    |
| m,p-Xylene   |   | 1 | 113          | µg/L  | 1    | 100             | <0.470           | 113  | 80.6 - 121    |
| o-Xylene     |   | 1 | 56.7         | µg/L  | 1    | 50.0            | <0.240           | 113  | 82.4 - 124    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| MTBE         |   | 1 | 58.8          | µg/L  | 1    | 50.0            | 4.14             | 109  | 61.9 - 143    | 4   | 20           |
| Benzene      |   | 1 | 53.9          | µg/L  | 1    | 50.0            | <0.240           | 108  | 70.7 - 125    | 4   | 20           |
| Toluene      |   | 1 | 54.0          | µg/L  | 1    | 50.0            | <0.260           | 108  | 66.3 - 138    | 4   | 20           |
| Ethylbenzene |   | 1 | 53.4          | µg/L  | 1    | 50.0            | <0.230           | 107  | 81.6 - 121    | 4   | 20           |
| m,p-Xylene   |   | 1 | 109           | µg/L  | 1    | 100             | <0.470           | 109  | 80.6 - 121    | 4   | 20           |
| o-Xylene     |   | 1 | 55.2          | µg/L  | 1    | 50.0            | <0.240           | 110  | 82.4 - 124    | 3   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 51.2         | 50.8          | µg/L  | 1    | 50              | 102        | 102         | 70 - 130      |
| Toluene-d8                   | 49.7         | 50.2          | µg/L  | 1    | 50              | 99         | 100         | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 51.7         | 51.7          | µg/L  | 1    | 50              | 103        | 103         | 70 - 130      |

Report Date: October 3, 2011  
Westgate

Work Order: 11093014  
Westgate

Page Number: 10 of 11  
Hobbs, NM

## Calibration Standards

### Standard (CCV-2)

QC Batch: 85202

Date Analyzed: 2011-09-30

Analyzed By: KB

| Param        | Flag | Cert | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | 1    | µg/L  | 50.0                  | 52.7                   | 105                         | 80 - 120                      | 2011-09-30       |
| Benzene      |      | 1    | µg/L  | 50.0                  | 52.3                   | 105                         | 80 - 120                      | 2011-09-30       |
| Toluene      |      | 1    | µg/L  | 50.0                  | 52.8                   | 106                         | 80 - 120                      | 2011-09-30       |
| Ethylbenzene |      | 1    | µg/L  | 50.0                  | 51.8                   | 104                         | 80 - 120                      | 2011-09-30       |
| m,p-Xylene   |      | 1    | µg/L  | 100                   | 106                    | 106                         | 80 - 120                      | 2011-09-30       |
| o-Xylene     |      | 1    | µg/L  | 50.0                  | 52.6                   | 105                         | 80 - 120                      | 2011-09-30       |

## Appendix

### Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704219-11-4      | Lubbock             |

### Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |
| Qsr | Surrogate recovery outside of laboratory limits.                                                                                                                                                                                    |
| U   | The analyte is not detected above the SDL                                                                                                                                                                                           |

### Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.



## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: January 12, 2012

Work Order: 12010302



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 285613 | MW #10      | water  | 2011-12-30 | 09:48      | 2012-01-03    |
| 285614 | MW #9       | water  | 2011-12-30 | 10:52      | 2012-01-03    |
| 285615 | MW #8       | water  | 2011-12-30 | 11:33      | 2012-01-03    |
| 285616 | MW #4       | water  | 2011-12-30 | 12:53      | 2012-01-03    |
| 285617 | MW #6       | water  | 2011-12-30 | 13:30      | 2012-01-03    |
| 285618 | MW #11      | water  | 2011-12-30 | 13:55      | 2012-01-03    |
| 285619 | MW #5       | water  | 2011-12-30 | 14:59      | 2012-01-03    |

### Sample: 285613 - MW #10

| Param               | Flag | Result    | Units | RL     |
|---------------------|------|-----------|-------|--------|
| Naphthalene         |      | <0.000235 | mg/L  | 0.0002 |
| 2-Methylnaphthalene |      | <0.000235 | mg/L  | 0.0002 |
| 1-Methylnaphthalene |      | <0.000235 | mg/L  | 0.0002 |
| Acenaphthylene      |      | <0.000235 | mg/L  | 0.0002 |
| Acenaphthene        |      | <0.000235 | mg/L  | 0.0002 |
| Dibenzofuran        |      | <0.000235 | mg/L  | 0.0002 |
| Fluorene            |      | <0.000235 | mg/L  | 0.0002 |
| Anthracene          |      | <0.000235 | mg/L  | 0.0002 |
| Phenanthrene        |      | <0.000235 | mg/L  | 0.0002 |
| Fluoranthene        |      | <0.000235 | mg/L  | 0.0002 |
| Pyrene              |      | <0.000235 | mg/L  | 0.0002 |
| Benzo(a)anthracene  |      | <0.000235 | mg/L  | 0.0002 |
| Chrysene            |      | <0.000235 | mg/L  | 0.0002 |

*continued ...*

sample 285613 continued ...

| Param                  | Flag | Result    | Units | RL     |
|------------------------|------|-----------|-------|--------|
| Benzo(b)fluoranthene   |      | <0.000235 | mg/L  | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.000235 | mg/L  | 0.0002 |
| Benzo(a)pyrene         |      | <0.000235 | mg/L  | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.000235 | mg/L  | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.000235 | mg/L  | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.000235 | mg/L  | 0.0002 |
| Benzene                |      | <1.00     | µg/L  | 1      |
| Toluene                |      | <1.00     | µg/L  | 1      |
| Ethylbenzene           |      | <1.00     | µg/L  | 1      |
| m,p-Xylene             |      | <1.00     | µg/L  | 1      |
| o-Xylene               |      | <1.00     | µg/L  | 1      |

Sample: 285614 - MW #9

| Param                  | Flag | Result    | Units | RL     |
|------------------------|------|-----------|-------|--------|
| Naphthalene            |      | <0.000229 | mg/L  | 0.0002 |
| 2-Methylnaphthalene    |      | <0.000229 | mg/L  | 0.0002 |
| 1-Methylnaphthalene    |      | <0.000229 | mg/L  | 0.0002 |
| Acenaphthylene         |      | <0.000229 | mg/L  | 0.0002 |
| Acenaphthene           |      | <0.000229 | mg/L  | 0.0002 |
| Dibenzofuran           |      | <0.000229 | mg/L  | 0.0002 |
| Fluorene               |      | <0.000229 | mg/L  | 0.0002 |
| Anthracene             |      | <0.000229 | mg/L  | 0.0002 |
| Phenanthrene           |      | <0.000229 | mg/L  | 0.0002 |
| Fluoranthene           |      | <0.000229 | mg/L  | 0.0002 |
| Pyrene                 |      | <0.000229 | mg/L  | 0.0002 |
| Benzo(a)anthracene     |      | <0.000229 | mg/L  | 0.0002 |
| Chrysene               |      | <0.000229 | mg/L  | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.000229 | mg/L  | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.000229 | mg/L  | 0.0002 |
| Benzo(a)pyrene         |      | <0.000229 | mg/L  | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.000229 | mg/L  | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.000229 | mg/L  | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.000229 | mg/L  | 0.0002 |
| Benzene                |      | <1.00     | µg/L  | 1      |
| Toluene                |      | <1.00     | µg/L  | 1      |
| Ethylbenzene           |      | <1.00     | µg/L  | 1      |
| m,p-Xylene             |      | <1.00     | µg/L  | 1      |
| o-Xylene               |      | <1.00     | µg/L  | 1      |

Sample: 285615 - MW #8

| Param       | Flag | Result    | Units | RL     |
|-------------|------|-----------|-------|--------|
| Naphthalene |      | <0.000235 | mg/L  | 0.0002 |

continued ...



sample 285615 continued ...

| Param                  | Flag | Result    | Units | RL     |
|------------------------|------|-----------|-------|--------|
| 2-Methylnaphthalene    |      | <0.000235 | mg/L  | 0.0002 |
| 1-Methylnaphthalene    |      | <0.000235 | mg/L  | 0.0002 |
| Acenaphthylene         |      | <0.000235 | mg/L  | 0.0002 |
| Acenaphthene           |      | <0.000235 | mg/L  | 0.0002 |
| Dibenzofuran           |      | <0.000235 | mg/L  | 0.0002 |
| Fluorene               |      | <0.000235 | mg/L  | 0.0002 |
| Anthracene             |      | <0.000235 | mg/L  | 0.0002 |
| Phenanthrene           |      | <0.000235 | mg/L  | 0.0002 |
| Fluoranthene           |      | <0.000235 | mg/L  | 0.0002 |
| Pyrene                 |      | <0.000235 | mg/L  | 0.0002 |
| Benzo(a)anthracene     |      | <0.000235 | mg/L  | 0.0002 |
| Chrysene               |      | <0.000235 | mg/L  | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.000235 | mg/L  | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.000235 | mg/L  | 0.0002 |
| Benzo(a)pyrene         |      | <0.000235 | mg/L  | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.000235 | mg/L  | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.000235 | mg/L  | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.000235 | mg/L  | 0.0002 |
| Benzene                |      | <1.00     | µg/L  | 1      |
| Toluene                |      | <1.00     | µg/L  | 1      |
| Ethylbenzene           |      | <1.00     | µg/L  | 1      |
| m,p-Xylene             |      | <1.00     | µg/L  | 1      |
| o-Xylene               |      | <1.00     | µg/L  | 1      |

## Sample: 285616 - MW #4

| Param        | Flag | Result | Units | RL |
|--------------|------|--------|-------|----|
| Benzene      |      | <1.00  | µg/L  | 1  |
| Toluene      |      | <1.00  | µg/L  | 1  |
| Ethylbenzene |      | <1.00  | µg/L  | 1  |
| m,p-Xylene   |      | <1.00  | µg/L  | 1  |
| o-Xylene     |      | <1.00  | µg/L  | 1  |

## Sample: 285617 - MW #6

| Param        | Flag | Result | Units | RL |
|--------------|------|--------|-------|----|
| Benzene      |      | <1.00  | µg/L  | 1  |
| Toluene      |      | <1.00  | µg/L  | 1  |
| Ethylbenzene |      | <1.00  | µg/L  | 1  |
| m,p-Xylene   |      | <1.00  | µg/L  | 1  |
| o-Xylene     |      | <1.00  | µg/L  | 1  |

## Sample: 285618 - MW #11

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296

*This is only a summary. Please, refer to the complete report package for quality control data.*

| Param        | Flag | Result | Units | RL |
|--------------|------|--------|-------|----|
| Benzene      |      | <1.00  | µg/L  | 1  |
| Toluene      |      | <1.00  | µg/L  | 1  |
| Ethylbenzene |      | <1.00  | µg/L  | 1  |
| m,p-Xylene   |      | <1.00  | µg/L  | 1  |
| o-Xylene     |      | <1.00  | µg/L  | 1  |

**Sample: 285619 - MW #5**

| Param                  | Flag | Result    | Units | RL     |
|------------------------|------|-----------|-------|--------|
| Naphthalene            |      | <0.000286 | mg/L  | 0.0002 |
| 2-Methylnaphthalene    |      | <0.000286 | mg/L  | 0.0002 |
| 1-Methylnaphthalene    |      | <0.000286 | mg/L  | 0.0002 |
| Acenaphthylene         |      | <0.000286 | mg/L  | 0.0002 |
| Acenaphthene           |      | <0.000286 | mg/L  | 0.0002 |
| Dibenzofuran           |      | <0.000286 | mg/L  | 0.0002 |
| Fluorene               |      | <0.000286 | mg/L  | 0.0002 |
| Anthracene             |      | <0.000286 | mg/L  | 0.0002 |
| Phenanthrene           |      | <0.000286 | mg/L  | 0.0002 |
| Fluoranthene           |      | <0.000286 | mg/L  | 0.0002 |
| Pyrene                 |      | <0.000286 | mg/L  | 0.0002 |
| Benzo(a)anthracene     |      | <0.000286 | mg/L  | 0.0002 |
| Chrysene               |      | <0.000286 | mg/L  | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.000286 | mg/L  | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.000286 | mg/L  | 0.0002 |
| Bcnzo(a)pyrene         |      | <0.000286 | mg/L  | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.000286 | mg/L  | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.000286 | mg/L  | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.000286 | mg/L  | 0.0002 |
| Benzene                |      | <1.00     | µg/L  | 1      |
| Toluene                |      | <1.00     | µg/L  | 1      |
| Ethylbenzene           |      | <1.00     | µg/L  | 1      |
| m,p-Xylene             |      | <1.00     | µg/L  | 1      |
| o-Xylene               |      | <1.00     | µg/L  | 1      |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•589•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: January 12, 2012

Work Order: 12010302



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 285613 | MW #10      | water  | 2011-12-30 | 09:48      | 2012-01-03    |
| 285614 | MW #9       | water  | 2011-12-30 | 10:52      | 2012-01-03    |
| 285615 | MW #8       | water  | 2011-12-30 | 11:33      | 2012-01-03    |
| 285616 | MW #4       | water  | 2011-12-30 | 12:53      | 2012-01-03    |
| 285617 | MW #6       | water  | 2011-12-30 | 13:30      | 2012-01-03    |
| 285618 | MW #11      | water  | 2011-12-30 | 13:55      | 2012-01-03    |
| 285619 | MW #5       | water  | 2011-12-30 | 14:59      | 2012-01-03    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

# Report Contents

|                                             |           |
|---------------------------------------------|-----------|
| <b>Case Narrative</b>                       | <b>4</b>  |
| <b>Analytical Report</b>                    | <b>5</b>  |
| Sample 285613 (MW #10) . . . . .            | 5         |
| Sample 285614 (MW #9) . . . . .             | 6         |
| Sample 285615 (MW #8) . . . . .             | 7         |
| Sample 285616 (MW #4) . . . . .             | 8         |
| Sample 285617 (MW #6) . . . . .             | 9         |
| Sample 285618 (MW #11) . . . . .            | 9         |
| Sample 285619 (MW #5) . . . . .             | 10        |
| <b>Method Blanks</b>                        | <b>12</b> |
| QC Batch 87585 - Method Blank (1) . . . . . | 12        |
| QC Batch 87617 - Method Blank (1) . . . . . | 12        |
| QC Batch 87703 - Method Blank (1) . . . . . | 12        |
| <b>Laboratory Control Spikes</b>            | <b>14</b> |
| QC Batch 87585 - LCS (1) . . . . .          | 14        |
| QC Batch 87617 - LCS (1) . . . . .          | 14        |
| QC Batch 87703 - LCS (1) . . . . .          | 15        |
| QC Batch 87585 - xMS (1) . . . . .          | 16        |
| QC Batch 87617 - xMS (1) . . . . .          | 17        |
| <b>Calibration Standards</b>                | <b>19</b> |
| QC Batch 87585 - CCV (1) . . . . .          | 19        |
| QC Batch 87617 - CCV (1) . . . . .          | 19        |
| QC Batch 87703 - CCV (1) . . . . .          | 19        |
| <b>Appendix</b>                             | <b>21</b> |
| Report Definitions . . . . .                | 21        |
| Laboratory Certifications . . . . .         | 21        |
| Standard Flags . . . . .                    | 21        |
| Attachments . . . . .                       | 21        |

## Case Narrative

Samples for project Westgate were received by TraceAnalysis, Inc. on 2012-01-03 and assigned to work order 12010302. Samples for work order 12010302 were received intact without headspace and at a temperature of 12.0 C. Samples were out of temperature when received because freight company did not work on Monday 1/2/11. The client gave permission to run tests anyway.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method   | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|-----------|----------|---------------|---------------------|-------------|---------------------|
| PAH       | S 8270D  | 74466         | 2012-01-05 at 15:00 | 87703       | 2012-01-05 at 15:00 |
| Volatiles | S 8260 C | 74369         | 2012-01-03 at 12:00 | 87585       | 2012-01-03 at 12:00 |
| Volatiles | S 8260 C | 74396         | 2012-01-04 at 13:00 | 87617       | 2012-01-04 at 13:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 12010302 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

## Analytical Report

Sample: 285613 - MW #10

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 87703  
Prep Batch: 74466

Analytical Method: S 8270D  
Date Analyzed: 2012-01-05  
Sample Preparation: 2012-01-05

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | Cert | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|------|--------------|-------|----------|----------|
| Naphthalene            | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| 2-Methylnaphthalene    | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| 1-Methylnaphthalene    | u    |      | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Acenaphthylene         | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Acenaphthene           | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Dibenzofuran           | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Fluorene               | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Anthracene             | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Phenanthrene           | u    |      | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Fluoranthene           | u    |      | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Pyrene                 | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Benzo(a)anthracene     | u    |      | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Chrysene               | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Benzo(b)fluoranthene   | u    |      | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Benzo(k)fluoranthene   | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Benzo(a)pyrene         | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Indeno(1,2,3-cd)pyrene | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Dibenzo(a,h)anthracene | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Benzo(g,h,i)perylene   | u    |      | <0.000235    | mg/L  | 1.176    | 0.000200 |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      |      | 0.0251 | mg/L  | 1.176    | 0.0800          | 31                  | 10 - 117           |
| 2-Fluorobiphenyl |      |      | 0.0267 | mg/L  | 1.176    | 0.0800          | 33                  | 10 - 99            |
| Terphenyl-d14    |      |      | 0.0305 | mg/L  | 1.176    | 0.0800          | 38                  | 22.6 - 115         |

Sample: 285613 - MW #10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 87585  
Prep Batch: 74369

Analytical Method: S 8260 C  
Date Analyzed: 2012-01-03  
Sample Preparation: 2012-01-03

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

Report Date: January 12, 2012  
Westgate

Work Order: 12010302  
Westgate

Page Number: 6 of 21  
Hobbs, NM

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 51.0   | µg/L  | 1        | 50.0            | 102                 | 70 - 130           |
| Toluene-d8                   |      |      | 52.5   | µg/L  | 1        | 50.0            | 105                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 47.9   | µg/L  | 1        | 50.0            | 96                  | 70 - 130           |

**Sample: 285614 - MW #9**

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 87703  
Prep Batch: 74466

Analytical Method: S 8270D  
Date Analyzed: 2012-01-05  
Sample Preparation: 2012-01-05

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | Cert | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|------|--------------|-------|----------|----------|
| Naphthalene            | u    | 1    | <0.000229    | mg/L  | 1.143    | 0.000200 |
| 2-Methylnaphthalene    | u    | 1    | <0.000229    | mg/L  | 1.143    | 0.000200 |
| 1-Methylnaphthalene    | u    |      | <0.000229    | mg/L  | 1.143    | 0.000200 |
| Acenaphthylene         | u    | 1    | <0.000229    | mg/L  | 1.143    | 0.000200 |
| Acenaphthene           | u    | 1    | <0.000229    | mg/L  | 1.143    | 0.000200 |
| Dibenzofuran           | u    | 1    | <0.000229    | mg/L  | 1.143    | 0.000200 |
| Fluorene               | u    | 1    | <0.000229    | mg/L  | 1.143    | 0.000200 |
| Anthracene             | u    | 1    | <0.000229    | mg/L  | 1.143    | 0.000200 |
| Phenanthrene           | u    |      | <0.000229    | mg/L  | 1.143    | 0.000200 |
| Fluoranthene           | u    |      | <0.000229    | mg/L  | 1.143    | 0.000200 |
| Pyrene                 | u    | 1    | <0.000229    | mg/L  | 1.143    | 0.000200 |
| Benzo(a)anthracene     | u    |      | <0.000229    | mg/L  | 1.143    | 0.000200 |
| Chrysene               | u    | 1    | <0.000229    | mg/L  | 1.143    | 0.000200 |
| Benzo(b)fluoranthene   | u    |      | <0.000229    | mg/L  | 1.143    | 0.000200 |
| Benzo(k)fluoranthene   | u    | 1    | <0.000229    | mg/L  | 1.143    | 0.000200 |
| Benzo(a)pyrene         | u    | 1    | <0.000229    | mg/L  | 1.143    | 0.000200 |
| Indeno(1,2,3-cd)pyrene | u    | 1    | <0.000229    | mg/L  | 1.143    | 0.000200 |
| Dibenzo(a,h)anthracene | u    | 1    | <0.000229    | mg/L  | 1.143    | 0.000200 |
| Benzo(g,h,i)perylene   | u    |      | <0.000229    | mg/L  | 1.143    | 0.000200 |



Report Date: January 12, 2012  
Westgate

Work Order: 12010302  
Westgate

Page Number: 7 of 21  
Hobbs, NM

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      |      | 0.0217 | mg/L  | 1.143    | 0.0800       | 27               | 10 - 117        |
| 2-Fluorobiphenyl |      |      | 0.0232 | mg/L  | 1.143    | 0.0800       | 29               | 10 - 99         |
| Terphenyl-d14    |      |      | 0.0321 | mg/L  | 1.143    | 0.0800       | 40               | 22.6 - 115      |

**Sample: 285614 - MW #9**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 87585  
Prep Batch: 74369

Analytical Method: S 8260 C  
Date Analyzed: 2012-01-03  
Sample Preparation: 2012-01-03

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL Result | Units | Dilution | RL   |
|--------------|------|------|-----------|-------|----------|------|
| Benzene      | u    | 1    | <1.00     | µg/L  | 1        | 1.00 |
| Toluene      | u    | 1    | <1.00     | µg/L  | 1        | 1.00 |
| Ethylbenzene | u    | 1    | <1.00     | µg/L  | 1        | 1.00 |
| m,p-Xylene   | u    | 1    | <1.00     | µg/L  | 1        | 1.00 |
| o-Xylene     | u    | 1    | <1.00     | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      |      | 49.7   | µg/L  | 1        | 50.0         | 99               | 70 - 130        |
| Toluene-d8                   |      |      | 51.9   | µg/L  | 1        | 50.0         | 104              | 70 - 130        |
| 4-Bromofluorobenzene (4-BFB) |      |      | 46.2   | µg/L  | 1        | 50.0         | 92               | 70 - 130        |

**Sample: 285615 - MW #8**

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 87703  
Prep Batch: 74466

Analytical Method: S 8270D  
Date Analyzed: 2012-01-05  
Sample Preparation: 2012-01-05

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter           | Flag | Cert | RL Result | Units | Dilution | RL       |
|---------------------|------|------|-----------|-------|----------|----------|
| Naphthalene         | u    | 1    | <0.000235 | mg/L  | 1.176    | 0.000200 |
| 2-Methylnaphthalene | u    | 1    | <0.000235 | mg/L  | 1.176    | 0.000200 |
| 1-Methylnaphthalene | u    |      | <0.000235 | mg/L  | 1.176    | 0.000200 |
| Acenaphthylene      | u    | 1    | <0.000235 | mg/L  | 1.176    | 0.000200 |
| Acenaphthene        | u    | 1    | <0.000235 | mg/L  | 1.176    | 0.000200 |
| Dibenzofuran        | u    | 1    | <0.000235 | mg/L  | 1.176    | 0.000200 |
| Fluorene            | u    | 1    | <0.000235 | mg/L  | 1.176    | 0.000200 |

continued ...

Report Date: January 12, 2012  
Westgate

Work Order: 12010302  
Westgate

Page Number: 8 of 21  
Hobbs, NM

sample 285615 continued ...

| Parameter              | Flag | Cert | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|------|--------------|-------|----------|----------|
| Anthracene             | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Phenanthrene           | u    |      | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Fluoranthene           | u    |      | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Pyrene                 | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Benzo(a)anthracene     | u    |      | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Chrysene               | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Benzo(b)fluoranthene   | u    |      | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Benzo(k)fluoranthene   | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Benzo(a)pyrene         | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Indeno(1,2,3-cd)pyrene | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Dibenzo(a,h)anthracene | u    | 1    | <0.000235    | mg/L  | 1.176    | 0.000200 |
| Benzo(g,h,i)perylene   | u    |      | <0.000235    | mg/L  | 1.176    | 0.000200 |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      |      | 0.0236 | mg/L  | 1.176    | 0.0800          | 30                  | 10 - 117           |
| 2-Fluorobiphenyl |      |      | 0.0258 | mg/L  | 1.176    | 0.0800          | 32                  | 10 - 99            |
| Terphenyl-d14    |      |      | 0.0317 | mg/L  | 1.176    | 0.0800          | 40                  | 22.6 - 115         |

Sample: 285615 - MW #8

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 87585  
Prep Batch: 74369

Analytical Method: S 8260 C  
Date Analyzed: 2012-01-03  
Sample Preparation: 2012-01-03

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 50.3   | µg/L  | 1        | 50.0            | 101                 | 70 - 130           |
| Toluene-d8                   |      |      | 52.0   | µg/L  | 1        | 50.0            | 104                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 47.1   | µg/L  | 1        | 50.0            | 94                  | 70 - 130           |

Report Date: January 12, 2012  
Westgate

Work Order: 12010302  
Westgate

Page Number: 9 of 21  
Hobbs, NM

**Sample: 285616 - MW #4**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 87585  
Prep Batch: 74369

Analytical Method: S 8260 C  
Date Analyzed: 2012-01-03  
Sample Preparation: 2012-01-03

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      | U    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      | U    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene | U    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   | U    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     | U    | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 50.8   | µg/L  | 1        | 50.0            | 102                 | 70 - 130           |
| Toluene-d8                   |      |      | 53.4   | µg/L  | 1        | 50.0            | 107                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 47.5   | µg/L  | 1        | 50.0            | 95                  | 70 - 130           |

**Sample: 285617 - MW #6**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 87585  
Prep Batch: 74369

Analytical Method: S 8260 C  
Date Analyzed: 2012-01-03  
Sample Preparation: 2012-01-03

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      | U    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      | U    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene | U    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   | U    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     | U    | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 50.7   | µg/L  | 1        | 50.0            | 101                 | 70 - 130           |
| Toluene-d8                   |      |      | 52.0   | µg/L  | 1        | 50.0            | 104                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 48.0   | µg/L  | 1        | 50.0            | 96                  | 70 - 130           |

Report Date: January 12, 2012  
Westgate

Work Order: 12010302  
Westgate

Page Number: 10 of 21  
Hobbs, NM

**Sample: 285618 - MW #11**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 87585  
Prep Batch: 74369

Analytical Method: S 8260 C  
Date Analyzed: 2012-01-03  
Sample Preparation: 2012-01-03

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 50.6   | µg/L  | 1        | 50.0            | 101                 | 70 - 130           |
| Toluene-d8                   |      |      | 52.0   | µg/L  | 1        | 50.0            | 104                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 47.9   | µg/L  | 1        | 50.0            | 96                  | 70 - 130           |

**Sample: 285619 - MW #5**

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 87703  
Prep Batch: 74466

Analytical Method: S 8270D  
Date Analyzed: 2012-01-05  
Sample Preparation: 2012-01-05

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter            | Flag | Cert | RL<br>Result | Units | Dilution | RL       |
|----------------------|------|------|--------------|-------|----------|----------|
| Naphthalene          | u    | 1    | <0.000286    | mg/L  | 1.429    | 0.000200 |
| 2-Methylnaphthalene  | u    | 1    | <0.000286    | mg/L  | 1.429    | 0.000200 |
| 1-Methylnaphthalene  | u    |      | <0.000286    | mg/L  | 1.429    | 0.000200 |
| Acenaphthylene       | u    | 1    | <0.000286    | mg/L  | 1.429    | 0.000200 |
| Acenaphthene         | u    | 1    | <0.000286    | mg/L  | 1.429    | 0.000200 |
| Dibenzofuran         | u    | 1    | <0.000286    | mg/L  | 1.429    | 0.000200 |
| Fluorene             | u    | 1    | <0.000286    | mg/L  | 1.429    | 0.000200 |
| Anthracene           | u    | 1    | <0.000286    | mg/L  | 1.429    | 0.000200 |
| Phenanthrene         | u    |      | <0.000286    | mg/L  | 1.429    | 0.000200 |
| Fluoranthene         | u    |      | <0.000286    | mg/L  | 1.429    | 0.000200 |
| Pyrene               | u    | 1    | <0.000286    | mg/L  | 1.429    | 0.000200 |
| Benzo(a)anthracene   | u    |      | <0.000286    | mg/L  | 1.429    | 0.000200 |
| Chrysene             | u    | 1    | <0.000286    | mg/L  | 1.429    | 0.000200 |
| Benzo(b)fluoranthene | u    |      | <0.000286    | mg/L  | 1.429    | 0.000200 |
| Benzo(k)fluoranthene | u    | 1    | <0.000286    | mg/L  | 1.429    | 0.000200 |

*continued ...*

Report Date: January 12, 2012  
Westgate

Work Order: 12010302  
Westgate

Page Number: 11 of 21  
Hobbs, NM

sample 285619 continued ...

| Parameter              | Flag | Cert | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|------|--------------|-------|----------|----------|
| Benzo(a)pyrene         | u    | 1    | <0.000286    | mg/L  | 1.429    | 0.000200 |
| Indeno(1,2,3-cd)pyrene | u    | 1    | <0.000286    | mg/L  | 1.429    | 0.000200 |
| Dibenzo(a,h)anthracene | u    | 1    | <0.000286    | mg/L  | 1.429    | 0.000200 |
| Benzo(g,h,i)perylene   | u    |      | <0.000286    | mg/L  | 1.429    | 0.000200 |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      |      | 0.0391 | mg/L  | 1.429    | 0.0800          | 49                  | 10 - 117           |
| 2-Fluorobiphenyl |      |      | 0.0414 | mg/L  | 1.429    | 0.0800          | 52                  | 10 - 99            |
| Terphenyl-d14    |      |      | 0.0461 | mg/L  | 1.429    | 0.0800          | 58                  | 22.6 - 115         |

**Sample: 285619 - MW #5**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 87617  
Prep Batch: 74396

Analytical Method: S 8260 C  
Date Analyzed: 2012-01-04  
Sample Preparation: 2012-01-04

Prep Method: S 5030B  
Analyzed By: JG  
Prepared By: JG

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 50.4   | µg/L  | 1        | 50.0            | 101                 | 70 - 130           |
| Toluene-d8                   |      |      | 51.8   | µg/L  | 1        | 50.0            | 104                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 49.9   | µg/L  | 1        | 50.0            | 100                 | 70 - 130           |

## Method Blanks

### Method Blank (1) QC Batch: 87585

QC Batch: 87585  
Prep Batch: 74369

Date Analyzed: 2012-01-03  
QC Preparation: 2012-01-03

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL |
|--------------|------|------|---------------|-------|----|
| Benzene      |      | 1    | <0.240        | µg/L  | 1  |
| Toluene      |      | 1    | <0.260        | µg/L  | 1  |
| Ethylbenzene |      | 1    | <0.230        | µg/L  | 1  |
| m,p-Xylene   |      | 1    | <0.470        | µg/L  | 1  |
| o-Xylene     |      | 1    | <0.240        | µg/L  | 1  |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 49.0   | µg/L  | 1        | 50.0            | 98                  | 70 - 130           |
| Toluene-d8                   |      |      | 52.4   | µg/L  | 1        | 50.0            | 105                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 47.8   | µg/L  | 1        | 50.0            | 96                  | 70 - 130           |

### Method Blank (1) QC Batch: 87617

QC Batch: 87617  
Prep Batch: 74396

Date Analyzed: 2012-01-04  
QC Preparation: 2012-01-04

Analyzed By: JG  
Prepared By: JG

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL |
|--------------|------|------|---------------|-------|----|
| Benzene      |      | 1    | <0.240        | µg/L  | 1  |
| Toluene      |      | 1    | <0.260        | µg/L  | 1  |
| Ethylbenzene |      | 1    | <0.230        | µg/L  | 1  |
| m,p-Xylene   |      | 1    | <0.470        | µg/L  | 1  |
| o-Xylene     |      | 1    | <0.240        | µg/L  | 1  |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 50.1   | µg/L  | 1        | 50.0            | 100                 | 70 - 130           |
| Toluene-d8                   |      |      | 51.9   | µg/L  | 1        | 50.0            | 104                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 47.1   | µg/L  | 1        | 50.0            | 94                  | 70 - 130           |

Report Date: January 12, 2012  
Westgate

Work Order: 12010302  
Westgate

Page Number: 13 of 21  
Hobbs, NM

Method Blank (1) QC Batch: 87703

QC Batch: 87703  
Prep Batch: 74466

Date Analyzed: 2012-01-05  
QC Preparation: 2012-01-05

Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | Cert | MDL<br>Result | Units | RL     |
|------------------------|------|------|---------------|-------|--------|
| Naphthalene            |      | 1    | <0.0000904    | mg/L  | 0.0002 |
| 2-Methylnaphthalene    |      | 1    | <0.000184     | mg/L  | 0.0002 |
| 1-Methylnaphthalene    |      |      | <0.000120     | mg/L  | 0.0002 |
| Acenaphthylene         |      | 1    | <0.000101     | mg/L  | 0.0002 |
| Acenaphthene           |      | 1    | <0.000122     | mg/L  | 0.0002 |
| Dibenzofuran           |      | 1    | <0.000119     | mg/L  | 0.0002 |
| Fluorene               |      | 1    | <0.000198     | mg/L  | 0.0002 |
| Anthracene             |      | 1    | <0.000190     | mg/L  | 0.0002 |
| Phenanthrene           |      |      | <0.000190     | mg/L  | 0.0002 |
| Fluoranthene           |      |      | <0.000122     | mg/L  | 0.0002 |
| Pyrene                 |      | 1    | <0.000142     | mg/L  | 0.0002 |
| Benzo(a)anthracene     |      |      | <0.000138     | mg/L  | 0.0002 |
| Chrysene               |      | 1    | <0.000155     | mg/L  | 0.0002 |
| Benzo(b)fluoranthene   |      |      | <0.000179     | mg/L  | 0.0002 |
| Benzo(k)fluoranthene   |      | 1    | <0.000185     | mg/L  | 0.0002 |
| Benzo(a)pyrene         |      | 1    | <0.000169     | mg/L  | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | 1    | <0.000139     | mg/L  | 0.0002 |
| Dibenzo(a,h)anthracene |      | 1    | <0.000107     | mg/L  | 0.0002 |
| Benzo(g,h,i)perylene   |      |      | <0.000143     | mg/L  | 0.0002 |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      |      | 0.0275 | mg/L  | 1        | 0.0800          | 34                  | 10 - 117           |
| 2-Fluorobiphenyl |      |      | 0.0249 | mg/L  | 1        | 0.0800          | 31                  | 10 - 99            |
| Terphenyl-d14    |      |      | 0.0324 | mg/L  | 1        | 0.0800          | 40                  | 22.6 - 115         |

Report Date: January 12, 2012  
Westgate

Work Order: 12010302  
Westgate

Page Number: 14 of 21  
Hobbs, NM

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 87585  
Prep Batch: 74369

Date Analyzed: 2012-01-03  
QC Preparation: 2012-01-03

Analyzed By: KB  
Prepared By: KB

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 1 | 49.9          | µg/L  | 1    | 50.0            | <0.240           | 100  | 78.2 - 119    |
| Toluene      |   | 1 | 50.2          | µg/L  | 1    | 50.0            | <0.260           | 100  | 76.9 - 124    |
| Ethylbenzene |   | 1 | 47.9          | µg/L  | 1    | 50.0            | <0.230           | 96   | 85.2 - 119    |
| m,p-Xylene   |   | 1 | 95.4          | µg/L  | 1    | 100             | <0.470           | 95   | 84.4 - 120    |
| o-Xylene     |   | 1 | 49.0          | µg/L  | 1    | 50.0            | <0.240           | 98   | 82.5 - 123    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 1 | 51.1          | µg/L  | 1    | 50.0            | <0.240           | 102  | 78.2 - 119    | 2   |              |
| Toluene      |   | 1 | 51.5          | µg/L  | 1    | 50.0            | <0.260           | 103  | 76.9 - 124    | 3   |              |
| Ethylbenzene |   | 1 | 49.7          | µg/L  | 1    | 50.0            | <0.230           | 99   | 85.2 - 119    | 4   |              |
| m,p-Xylene   |   | 1 | 99.3          | µg/L  | 1    | 100             | <0.470           | 99   | 84.4 - 120    | 4   |              |
| o-Xylene     |   | 1 | 50.9          | µg/L  | 1    | 50.0            | <0.240           | 102  | 82.5 - 123    | 4   |              |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Dibromofluoromethane         | 50.7          | 49.8          | µg/L  | 1    | 50.0            | 101         | 100         | 70 - 130      |
| Toluene-d8                   | 48.0          | 48.2          | µg/L  | 1    | 50.0            | 96          | 96          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 51.4          | 51.1          | µg/L  | 1    | 50.0            | 103         | 102         | 70 - 130      |

### Laboratory Control Spike (LCS-1)

QC Batch: 87617  
Prep Batch: 74396

Date Analyzed: 2012-01-04  
QC Preparation: 2012-01-04

Analyzed By: JG  
Prepared By: JG

| Param   | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene |   | 1 | 52.8          | µg/L  | 1    | 50.0            | <0.240           | 106  | 78.2 - 119    |
| Toluene |   | 1 | 52.9          | µg/L  | 1    | 50.0            | <0.260           | 106  | 76.9 - 124    |

*continued ...*



Report Date: January 12, 2012  
Westgate

Work Order: 12010302  
Westgate

Page Number: 15 of 21  
Hobbs, NM

control spikes continued ...

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Ethylbenzene |   | 1 | 50.0          | µg/L  | 1    | 50.0            | <0.230           | 100  | 85.2 - 119    |
| m,p-Xylene   |   | 1 | 100           | µg/L  | 1    | 100             | <0.470           | 100  | 84.4 - 120    |
| o-Xylene     |   | 1 | 51.1          | µg/L  | 1    | 50.0            | <0.240           | 102  | 82.5 - 123    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 1 | 52.8          | µg/L  | 1    | 50.0            | <0.240           | 106  | 78.2 - 119    | 0   |              |
| Toluene      |   | 1 | 52.9          | µg/L  | 1    | 50.0            | <0.260           | 106  | 76.9 - 124    | 0   |              |
| Ethylbenzene |   | 1 | 48.9          | µg/L  | 1    | 50.0            | <0.230           | 98   | 85.2 - 119    | 2   |              |
| m,p-Xylene   |   | 1 | 97.4          | µg/L  | 1    | 100             | <0.470           | 97   | 84.4 - 120    | 3   |              |
| o-Xylene     |   | 1 | 49.4          | µg/L  | 1    | 50.0            | <0.240           | 99   | 82.5 - 123    | 3   |              |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Dibromofluoromethane         | 49.3          | 49.2          | µg/L  | 1    | 50.0            | 99          | 98          | 70 - 130      |
| Toluene-d8                   | 47.7          | 47.4          | µg/L  | 1    | 50.0            | 95          | 95          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 51.8          | 51.0          | µg/L  | 1    | 50.0            | 104         | 102         | 70 - 130      |

#### Laboratory Control Spike (LCS-1)

QC Batch: 87703  
Prep Batch: 74466

Date Analyzed: 2012-01-05  
QC Preparation: 2012-01-05

Analyzed By: MN  
Prepared By: MN

| Param                | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Naphthalene          |   | 1 | 0.0323        | mg/L  | 1    | 0.0800          | <0.0000904       | 40   | 10 - 89.9     |
| 2-Methylnaphthalene  |   | 1 | 0.0363        | mg/L  | 1    | 0.0800          | <0.000184        | 45   | 13.8 - 98.4   |
| 1-Methylnaphthalene  |   |   | 0.0345        | mg/L  | 1    | 0.0800          | <0.000120        | 43   | 13.1 - 103    |
| Acenaphthylene       |   | 1 | 0.0401        | mg/L  | 1    | 0.0800          | <0.000101        | 50   | 20 - 104      |
| Acenaphthene         |   | 1 | 0.0384        | mg/L  | 1    | 0.0800          | <0.000122        | 48   | 21.6 - 94.6   |
| Dibenzofuran         |   | 1 | 0.0339        | mg/L  | 1    | 0.0800          | <0.000119        | 42   | 22.9 - 74.9   |
| Fluorene             |   | 1 | 0.0413        | mg/L  | 1    | 0.0800          | <0.000198        | 52   | 30.8 - 109    |
| Anthracene           |   | 1 | 0.0475        | mg/L  | 1    | 0.0800          | <0.000190        | 59   | 37.6 - 96.4   |
| Phenanthrene         |   |   | 0.0471        | mg/L  | 1    | 0.0800          | <0.000190        | 59   | 42.4 - 99.8   |
| Fluoranthene         |   |   | 0.0512        | mg/L  | 1    | 0.0800          | <0.000122        | 64   | 48 - 118      |
| Pyrene               |   | 1 | 0.0484        | mg/L  | 1    | 0.0800          | <0.000142        | 60   | 45.3 - 109    |
| Benzo(a)anthracene   |   |   | 0.0564        | mg/L  | 1    | 0.0800          | <0.000138        | 70   | 48 - 113      |
| Chrysene             |   | 1 | 0.0587        | mg/L  | 1    | 0.0800          | <0.000155        | 73   | 35.2 - 175    |
| Benzo(b)fluoranthene |   |   | 0.0363        | mg/L  | 1    | 0.0800          | <0.000179        | 45   | 16.6 - 106    |

continued ...

control spikes continued ...

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzo(k)fluoranthene   |   | 1 | 0.0474        | mg/L  | 1    | 0.0800          | <0.000185        | 59   | 36.8 - 99.4   |
| Benzo(a)pyrene         |   | 1 | 0.0424        | mg/L  | 1    | 0.0800          | <0.000169        | 53   | 32.3 - 99.7   |
| Indeno(1,2,3-cd)pyrene |   | 1 | 0.0432        | mg/L  | 1    | 0.0800          | <0.000139        | 54   | 34.1 - 106    |
| Dibenzo(a,h)anthracene |   | 1 | 0.0492        | mg/L  | 1    | 0.0800          | <0.000107        | 62   | 47.1 - 103    |
| Benzo(g,h,i)perylene   |   |   | 0.0436        | mg/L  | 1    | 0.0800          | <0.000143        | 54   | 21.9 - 112    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Naphthalene            | 1 |   | 0.0372        | mg/L  | 1    | 0.0800          | <0.0000904       | 46   | 10 - 89.9     | 14  | 20           |
| 2-Methylnaphthalene    | 1 |   | 0.0425        | mg/L  | 1    | 0.0800          | <0.000184        | 53   | 13.8 - 98.4   | 16  | 20           |
| 1-Methylnaphthalene    |   |   | 0.0400        | mg/L  | 1    | 0.0800          | <0.000120        | 50   | 13.1 - 103    | 15  | 20           |
| Acenaphthylene         | 1 |   | 0.0458        | mg/L  | 1    | 0.0800          | <0.000101        | 57   | 20 - 104      | 13  | 20           |
| Acenaphthene           | 1 |   | 0.0435        | mg/L  | 1    | 0.0800          | <0.000122        | 54   | 21.6 - 94.6   | 12  | 20           |
| Dibenzofuran           | 1 |   | 0.0381        | mg/L  | 1    | 0.0800          | <0.000119        | 48   | 22.9 - 74.9   | 12  | 20           |
| Fluorene               | 1 |   | 0.0462        | mg/L  | 1    | 0.0800          | <0.000198        | 58   | 30.8 - 109    | 11  | 20           |
| Anthracene             | 1 |   | 0.0541        | mg/L  | 1    | 0.0800          | <0.000190        | 68   | 37.6 - 96.4   | 13  | 20           |
| Phenanthrene           |   |   | 0.0537        | mg/L  | 1    | 0.0800          | <0.000190        | 67   | 42.4 - 99.8   | 13  | 20           |
| Fluoranthene           |   |   | 0.0582        | mg/L  | 1    | 0.0800          | <0.000122        | 73   | 48 - 118      | 13  | 20           |
| Pyrene                 | 1 |   | 0.0555        | mg/L  | 1    | 0.0800          | <0.000142        | 69   | 45.3 - 109    | 14  | 20           |
| Benzo(a)anthracene     |   |   | 0.0638        | mg/L  | 1    | 0.0800          | <0.000138        | 80   | 48 - 113      | 12  | 20           |
| Chrysene               | 1 |   | 0.0669        | mg/L  | 1    | 0.0800          | <0.000155        | 84   | 35.2 - 175    | 13  | 20           |
| Benzo(b)fluoranthene   |   |   | 0.0399        | mg/L  | 1    | 0.0800          | <0.000179        | 50   | 16.6 - 106    | 9   | 20           |
| Benzo(k)fluoranthene   | 1 |   | 0.0499        | mg/L  | 1    | 0.0800          | <0.000185        | 62   | 36.8 - 99.4   | 5   | 20           |
| Benzo(a)pyrene         | 1 |   | 0.0487        | mg/L  | 1    | 0.0800          | <0.000169        | 61   | 32.3 - 99.7   | 14  | 20           |
| Indeno(1,2,3-cd)pyrene | 1 |   | 0.0493        | mg/L  | 1    | 0.0800          | <0.000139        | 62   | 34.1 - 106    | 13  | 20           |
| Dibenzo(a,h)anthracene | 1 |   | 0.0564        | mg/L  | 1    | 0.0800          | <0.000107        | 70   | 47.1 - 103    | 14  | 20           |
| Benzo(g,h,i)perylene   |   |   | 0.0500        | mg/L  | 1    | 0.0800          | <0.000143        | 62   | 21.9 - 112    | 14  | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate        | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Nitrobenzene-d5  | 0.0323        | 0.0369        | mg/L  | 1    | 0.0800          | 40          | 46          | 10 - 117      |
| 2-Fluorobiphenyl | 0.0353        | 0.0405        | mg/L  | 1    | 0.0800          | 44          | 51          | 10 - 99       |
| Terphenyl-d14    | 0.0502        | 0.0561        | mg/L  | 1    | 0.0800          | 63          | 70          | 22.6 - 115    |

Matrix Spike (xMS-1) Spiked Sample:

QC Batch: 87585  
Prep Batch: 74369

Date Analyzed: 2012-01-03  
QC Preparation: 2012-01-03

Analyzed By: KB  
Prepared By: KB

Report Date: January 12, 2012  
Westgate

Work Order: 12010302  
Westgate

Page Number: 17 of 21  
Hobbs, NM

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 1 | 53.0         | µg/L  | 1    | 50.0            | 2.21             | 102  | 70.7 - 125    |
| Toluene      |   | 1 | 52.5         | µg/L  | 1    | 50.0            | 3.5              | 98   | 66.3 - 138    |
| Ethylbenzene |   | 1 | 49.0         | µg/L  | 1    | 50.0            | 2.09             | 94   | 81.6 - 121    |
| m,p-Xylene   |   | 1 | 94.2         | µg/L  | 1    | 100             | <0.470           | 94   | 80.6 - 121    |
| o-Xylene     |   | 1 | 48.5         | µg/L  | 1    | 50.0            | <0.240           | 97   | 82.4 - 124    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 1 | 52.0          | µg/L  | 1    | 50.0            | 2.21             | 100  | 70.7 - 125    | 2   | 20           |
| Toluene      |   | 1 | 51.4          | µg/L  | 1    | 50.0            | 3.5              | 96   | 66.3 - 138    | 2   | 20           |
| Ethylbenzene |   | 1 | 48.6          | µg/L  | 1    | 50.0            | 2.09             | 93   | 81.6 - 121    | 1   | 20           |
| m,p-Xylene   |   | 1 | 85.3          | µg/L  | 1    | 100             | <0.470           | 85   | 80.6 - 121    | 10  | 20           |
| o-Xylene     |   | 1 | 44.0          | µg/L  | 1    | 50.0            | <0.240           | 88   | 82.4 - 124    | 10  | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 50.8         | 49.7          | µg/L  | 1    | 50              | 102        | 99          | 70 - 130      |
| Toluene-d8                   | 47.9         | 43.1          | µg/L  | 1    | 50              | 96         | 86          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 50.8         | 46.2          | µg/L  | 1    | 50              | 102        | 92          | 70 - 130      |

Matrix Spike (xMS-1) Spiked Sample:

QC Batch: 87617  
Prep Batch: 74396

Date Analyzed: 2012-01-04  
QC Preparation: 2012-01-04

Analyzed By: JG  
Prepared By: JG

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 1 | 46.2         | µg/L  | 1    | 50.0            | <0.240           | 92   | 70.7 - 125    |
| Toluene      |   | 1 | 46.0         | µg/L  | 1    | 50.0            | <0.260           | 92   | 66.3 - 138    |
| Ethylbenzene |   | 1 | 42.7         | µg/L  | 1    | 50.0            | <0.230           | 85   | 81.6 - 121    |
| m,p-Xylene   |   | 1 | 84.8         | µg/L  | 1    | 100             | <0.470           | 85   | 80.6 - 121    |
| o-Xylene     |   | 1 | 44.0         | µg/L  | 1    | 50.0            | <0.240           | 88   | 82.4 - 124    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 1 | 52.8          | µg/L  | 1    | 50.0            | <0.240           | 106  | 70.7 - 125    | 13  | 20           |
| Toluene      |   | 1 | 52.0          | µg/L  | 1    | 50.0            | <0.260           | 104  | 66.3 - 138    | 12  | 20           |
| Ethylbenzene |   | 1 | 48.4          | µg/L  | 1    | 50.0            | <0.230           | 97   | 81.6 - 121    | 12  | 20           |
| m,p-Xylene   |   | 1 | 96.2          | µg/L  | 1    | 100             | <0.470           | 96   | 80.6 - 121    | 13  | 20           |

continued ...

Report Date: January 12, 2012  
Westgate

Work Order: 12010302  
Westgate

Page Number: 18 of 21  
Hobbs, NM

*matrix spikes continued ...*

| Param    | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| o-Xylene |   | 1 | 48.9          | µg/L  | 1    | 50.0            | <0.240           | 98   | 82.4 - 124    | 10  | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 49.7         | 49.0          | µg/L  | 1    | 50              | 99         | 98          | 70 - 130      |
| Toluene-d8                   | 47.1         | 45.4          | µg/L  | 1    | 50              | 94         | 91          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 50.7         | 49.7          | µg/L  | 1    | 50              | 101        | 99          | 70 - 130      |

## Calibration Standards

### Standard (CCV-1)

QC Batch: 87585

Date Analyzed: 2012-01-03

Analyzed By: KB

| Param        | Flag | Cert | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | 1    | µg/L  | 50.0                  | 46.8                   | 94                          | 80 - 120                      | 2012-01-03       |
| Toluene      |      | 1    | µg/L  | 50.0                  | 47.0                   | 94                          | 80 - 120                      | 2012-01-03       |
| Ethylbenzene |      | 1    | µg/L  | 50.0                  | 45.4                   | 91                          | 80 - 120                      | 2012-01-03       |
| m,p-Xylene   |      | 1    | µg/L  | 100                   | 91.0                   | 91                          | 80 - 120                      | 2012-01-03       |
| o-Xylene     |      | 1    | µg/L  | 50.0                  | 46.4                   | 93                          | 80 - 120                      | 2012-01-03       |

### Standard (CCV-1)

QC Batch: 87617

Date Analyzed: 2012-01-04

Analyzed By: JG

| Param        | Flag | Cert | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | 1    | µg/L  | 50.0                  | 52.1                   | 104                         | 80 - 120                      | 2012-01-04       |
| Toluene      |      | 1    | µg/L  | 50.0                  | 52.0                   | 104                         | 80 - 120                      | 2012-01-04       |
| Ethylbenzene |      | 1    | µg/L  | 50.0                  | 48.9                   | 98                          | 80 - 120                      | 2012-01-04       |
| m,p-Xylene   |      | 1    | µg/L  | 100                   | 97.7                   | 98                          | 80 - 120                      | 2012-01-04       |
| o-Xylene     |      | 1    | µg/L  | 50.0                  | 49.6                   | 99                          | 80 - 120                      | 2012-01-04       |

### Standard (CCV-1)

QC Batch: 87703

Date Analyzed: 2012-01-05

Analyzed By: MN

| Param               | Flag | Cert | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Naphthalene         |      | 1    | mg/L  | 60.0                  | 54.3                   | 90                          | 80 - 120                      | 2012-01-05       |
| 2-Methylnaphthalene |      | 1    | mg/L  | 60.0                  | 56.4                   | 94                          | 80 - 120                      | 2012-01-05       |
| 1-Methylnaphthalene |      |      | mg/L  | 60.0                  | 56.4                   | 94                          | 80 - 120                      | 2012-01-05       |
| Acenaphthylene      |      | 1    | mg/L  | 60.0                  | 55.3                   | 92                          | 80 - 120                      | 2012-01-05       |
| Acenaphthene        |      | 1    | mg/L  | 60.0                  | 55.9                   | 93                          | 80 - 120                      | 2012-01-05       |

continued ...

standard continued ...

| Param                  | Flag | Cert | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Dibenzofuran           |      | 1    | mg/L  | 60.0                  | 54.7                   | 91                          | 80 - 120                      | 2012-01-05       |
| Fluorene               |      | 1    | mg/L  | 60.0                  | 54.0                   | 90                          | 80 - 120                      | 2012-01-05       |
| Anthracene             |      | 1    | mg/L  | 60.0                  | 53.5                   | 89                          | 80 - 120                      | 2012-01-05       |
| Phenanthrene           |      |      | mg/L  | 60.0                  | 54.0                   | 90                          | 80 - 120                      | 2012-01-05       |
| Fluoranthene           |      |      | mg/L  | 60.0                  | 58.9                   | 98                          | 80 - 120                      | 2012-01-05       |
| Pyrene                 |      | 1    | mg/L  | 60.0                  | 54.0                   | 90                          | 80 - 120                      | 2012-01-05       |
| Benzo(a)anthracene     |      |      | mg/L  | 60.0                  | 56.7                   | 94                          | 80 - 120                      | 2012-01-05       |
| Chrysene               |      | 1    | mg/L  | 60.0                  | 57.6                   | 96                          | 80 - 120                      | 2012-01-05       |
| Benzo(b)fluoranthene   |      |      | mg/L  | 60.0                  | 59.7                   | 100                         | 80 - 120                      | 2012-01-05       |
| Benzo(k)fluoranthene   |      | 1    | mg/L  | 60.0                  | 53.6                   | 89                          | 80 - 120                      | 2012-01-05       |
| Benzo(a)pyrene         |      | 1    | mg/L  | 60.0                  | 53.6                   | 89                          | 80 - 120                      | 2012-01-05       |
| Indeno(1,2,3-cd)pyrene |      | 1    | mg/L  | 60.0                  | 53.4                   | 89                          | 80 - 120                      | 2012-01-05       |
| Dibenzo(a,h)anthracene |      | 1    | mg/L  | 60.0                  | 53.8                   | 90                          | 80 - 120                      | 2012-01-05       |
| Benzo(g,h,i)perylene   |      |      | mg/L  | 60.0                  | 53.5                   | 89                          | 80 - 120                      | 2012-01-05       |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |      |      | 51.8   | mg/L  | 1        | 60.0            | 86                  | -                 |
| 2-Fluorobiphenyl |      |      | 56.0   | mg/L  | 1        | 60.0            | 93                  | -                 |
| Terphenyl-d14    |      |      | 54.6   | mg/L  | 1        | 60.0            | 91                  | -                 |

## Appendix

### Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

### Laboratory Certifications

|   | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704219-11-5      | Lubbock             |

### Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |
| Qsr | Surrogate recovery outside of laboratory limits.                                                                                                                                                                                    |
| U   | The analyte is not detected above the SDL                                                                                                                                                                                           |

### Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

## TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443BioAquatic Testing  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

Company Name:

Phone #:

575-397-6380

Address:

(Street, City, Zip)

1324 W. Marland

Fax #:

575-397-0397

Contact Person:

E-mail:

G. H. Brunson

Invoice to:

(If different from above)

Project #:

Project Name:

Westgate

Project Location (including state):

Sampler Signature:

Hobbs, NM

| LAB #<br>(LAB USE)<br>(ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     | DATE    | SAMPLING TIME |
|------------------------------|------------|--------------|-----------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|---------|---------------|
|                              |            |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE |         |               |
| 285613                       | MW # 10    | 3            | Vol             | X      |      |     |        | X                   |                  |                                |      | X   | 11/6/12 | 948           |
| 614                          | MW # 10    | 1            |                 | X      |      |     |        |                     |                  |                                |      | X   |         | 946           |
| 614415                       | MW # 9     | 3            | Vol             | X      |      |     |        | X                   |                  |                                |      | X   |         | 1052          |
| 614415                       | MW # 9     | 1            |                 | X      |      |     |        |                     |                  |                                |      | X   |         | 1052          |
| 615                          | MW # 8     | 3            | Vol             | X      |      |     |        | X                   |                  |                                |      | X   |         | 1133          |
| 616                          | MW # 8     | 1            |                 | X      |      |     |        |                     |                  |                                |      | X   |         | 1133          |
| 617                          | MW # 4     | 3            | Vol             | X      |      |     |        | X                   |                  |                                |      | X   |         | 1253          |
| 618                          | MW # 6     | 3            | Vol             | X      |      |     |        | X                   |                  |                                |      | X   |         | 130           |
| 619                          | MW # 11    | 3            | Vol             | X      |      |     |        | X                   |                  |                                |      | X   |         | 155           |
| 619                          | MW # 5     | 3            | Vol             | X      |      |     |        | X                   |                  |                                |      | X   |         | 259           |
| 619                          | MW # 5     | 1            |                 | X      |      |     |        |                     |                  |                                |      | X   |         | 259           |

Relinquished by: Company: Date: Time:

Received by: Company: Date: Time:

INST: Time:

OBS: COR: °C

LAB USE ONLY

REMARKS:

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting Limits Are Needed

Relinquished by: Company: Date: Time:

Received by: Company: Date: Time:

INST: Time:

OBS: COR: °C

LAB USE ONLY

REMARKS:

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting Limits Are Needed

Relinquished by: Company: Date: Time:

Received by: Company: Date: Time:

INST: Time:

OBS: COR: °C

LAB USE ONLY

REMARKS:

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting Limits Are Needed

Relinquished by: Company: Date: Time:

Received by: Company: Date: Time:

INST: Time:

OBS: COR: °C

LAB USE ONLY

REMARKS:

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting Limits Are Needed

Relinquished by: Company: Date: Time:

Received by: Company: Date: Time:

INST: Time:

OBS: COR: °C

LAB USE ONLY

REMARKS:

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

Carrier #

Fed 7930 716/9583

Lots Delivery because freight company did not work Monday. OK to run per customer.



## TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443BioAquatic Testing  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

Company Name:

Address: BBC  
(Street, City, Zip)Contact Person: 1374 W. Midland  
CLH Brunson 575-397-0397

Invoice to:

(If different from above)

Project #:

Project Name:

Project Location (including state):

Sampler Signature:

| LAB #<br>LAB USE ONLY | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     | SAMPLING |      |
|-----------------------|------------|--------------|-----------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|----------|------|
|                       |            |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE     | DATE |

Temp Blank 1

ANALYSIS REQUEST  
(Circle or Specify Method No.)

|                              |                             |                                      |                           |                |                                                 |                                     |                |                     |                 |     |                       |                             |                 |                       |              |                  |                                                                                                 |                        |                                             |      |
|------------------------------|-----------------------------|--------------------------------------|---------------------------|----------------|-------------------------------------------------|-------------------------------------|----------------|---------------------|-----------------|-----|-----------------------|-----------------------------|-----------------|-----------------------|--------------|------------------|-------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------|------|
| MTBE 8021 / 602 / 8260 / 624 | BTX 8021 / 602 / 8260 / 624 | TPH 418.1 / TX1005 / TX1005 EXT(C35) | TPH 8015 GRO / DRO / TVHC | PAH 8270 / 625 | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC/MS Vol. 8260 / 624 | GC/MS Semi. Vol. 8270 / 625 | PCBs 8082 / 608 | Pesticides 8081 / 608 | BOD, TSS, pH | Moisture Content | Cl, F, SO <sub>4</sub> , NO <sub>3</sub> -N, NO <sub>2</sub> -N, PO <sub>4</sub> -P, Alkalinity | Na, Ca, Mg, K, TDS, EC | Turn Around Time if different from standard | Hold |
|------------------------------|-----------------------------|--------------------------------------|---------------------------|----------------|-------------------------------------------------|-------------------------------------|----------------|---------------------|-----------------|-----|-----------------------|-----------------------------|-----------------|-----------------------|--------------|------------------|-------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------|------|

|                  |          |       |       |              |          |       |       |      |     |     |              |          |
|------------------|----------|-------|-------|--------------|----------|-------|-------|------|-----|-----|--------------|----------|
| Relinquished by: | Company: | Date: | Time: | Received by: | Company: | Date: | Time: | INST | OBS | COR | LAB USE ONLY | REMARKS: |
| Relinquished by: | Company: | Date: | Time: | Received by: | Company: | Date: | Time: | INST | OBS | COR | LAB USE ONLY | REMARKS: |
| Relinquished by: | Company: | Date: | Time: | Received by: | Company: | Date: | Time: | INST | OBS | COR | LAB USE ONLY | REMARKS: |

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. O.

ORIGINAL COPY

Carrier #

Fed: 1930 7161 4583

# APPENDIX V

---

**TRACE ANALYSIS, INC.**  
Laboratory Results 2012

Westgate Subdivision  
Grimes Battery & Tasker Road

**August 2012**

Shell Exploration & Production Company  
Houston, Texas

Prepared by:  
BBC International, Inc.

## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: May 11, 2012

Work Order: 12032710



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 292427 | MW #10      | water  | 2012-03-23 | 08:22      | 2012-03-27    |
| 292428 | MW #8       | water  | 2012-03-23 | 10:39      | 2012-03-27    |
| 292429 | MW #9       | water  | 2012-03-23 | 11:56      | 2012-03-27    |

### Sample: 292427 - MW #10

| Param        | Flag | Result | Units | RL |
|--------------|------|--------|-------|----|
| Benzene      |      | <1.00  | µg/L  | 1  |
| Toluene      |      | <1.00  | µg/L  | 1  |
| Ethylbenzene |      | <1.00  | µg/L  | 1  |
| m,p-Xylene   |      | <1.00  | µg/L  | 1  |
| o-Xylene     |      | <1.00  | µg/L  | 1  |

### Sample: 292428 - MW #8

| Param        | Flag | Result | Units | RL |
|--------------|------|--------|-------|----|
| Benzene      |      | <1.00  | µg/L  | 1  |
| Toluene      |      | <1.00  | µg/L  | 1  |
| Ethylbenzene |      | <1.00  | µg/L  | 1  |
| m,p-Xylene   |      | <1.00  | µg/L  | 1  |
| o-Xylene     |      | <1.00  | µg/L  | 1  |

**Sample: 292429 - MW #9**

| Param        | Flag | Result | Units | RL |
|--------------|------|--------|-------|----|
| Benzene      |      | <1.00  | µg/L  | 1  |
| Toluene      |      | <1.00  | µg/L  | 1  |
| Ethylbenzene |      | <1.00  | µg/L  | 1  |
| m,p-Xylene   |      | <1.00  | µg/L  | 1  |
| o-Xylene     |      | <1.00  | µg/L  | 1  |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1296  
200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313  
(BioAquatec) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
E-Mail lab@traceanalysis.com WEB www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

## Analytical and Quality Control Report (Corrected Report)

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: May 11, 2012

Work Order: 12032710



GL#: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 202427 | MW #10      | water  | 2012-03-23 | 08:22      | 2012-03-27    |
| 202428 | MW #8       | water  | 2012-03-23 | 10:39      | 2012-03-27    |
| 202429 | MW #9       | water  | 2012-03-23 | 11:56      | 2012-03-27    |

### Report Corrections (Work Order 12032710)

- 5-11-2012: Corrected date taken.

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

# Report Contents

|                                   |    |
|-----------------------------------|----|
| Case Narrative                    | 4  |
| Analytical Report                 | 5  |
| Sample 292427 (MW #10)            | 5  |
| Sample 292428 (MW #8)             | 5  |
| Sample 292429 (MW #9)             | 6  |
| Method Blanks                     | 7  |
| QC Batch 89756 - Method Blank (1) | 7  |
| Laboratory Control Spikes         | 8  |
| QC Batch 89756 - LCS (1)          | 8  |
| QC Batch 89756 - xMS (1)          | 8  |
| Calibration Standards             | 10 |
| Appendix                          | 11 |
| Report Definitions                | 11 |
| Laboratory Certifications         | 11 |
| Standard Flags                    | 11 |
| Attachments                       | 11 |

## Case Narrative

Samples for project Westgate were received by TraceAnalysis, Inc. on 2012-03-27 and assigned to work order 12032710. Samples for work order 12032710 were received intact at a temperature of 4.0 C.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method   | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|-----------|----------|---------------|---------------------|-------------|---------------------|
| Volatiles | S 8260 C | 76187         | 2012-03-27 at 12:00 | 89756       | 2012-03-27 at 12:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 12032710 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.



# Analytical Report

Sample: 292427 - MW #10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 89756  
Prep Batch: 76187

Analytical Method: S 8260 C  
Date Analyzed: 2012-03-27  
Sample Preparation: 2012-03-27

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 52.3   | µg/L  | 1        | 50.0            | 105                 | 70 - 130           |
| Toluene-d8                   |      |      | 51.9   | µg/L  | 1        | 50.0            | 104                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 46.6   | µg/L  | 1        | 50.0            | 93                  | 70 - 130           |

Sample: 292428 - MW #8

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 89756  
Prep Batch: 76187

Analytical Method: S 8260 C  
Date Analyzed: 2012-03-27  
Sample Preparation: 2012-03-27

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate            | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|----------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane |      |      | 52.1   | µg/L  | 1        | 50.0            | 104                 | 70 - 130           |
| Toluene-d8           |      |      | 52.2   | µg/L  | 1        | 50.0            | 104                 | 70 - 130           |

continued ...

Report Date: May 11, 2012  
Westgate

Work Order: 12032710  
Westgate

Page Number: 6 of 11  
Hobbs, NM

*sample continued ...*

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| 4-Bromofluorobenzene (4-BFB) |      |      | 46.4   | µg/L  | 1        | 50.0         | 93               | 70 - 130        |

**Sample: 292429 - MW #9**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 89756  
Prep Batch: 76187

Analytical Method: S 8260 C  
Date Analyzed: 2012-03-27  
Sample Preparation: 2012-03-27

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      |      | 52.1   | µg/L  | 1        | 50.0         | 104              | 70 - 130        |
| Toluene-d8                   |      |      | 51.5   | µg/L  | 1        | 50.0         | 103              | 70 - 130        |
| 4-Bromofluorobenzene (4-BFB) |      |      | 46.3   | µg/L  | 1        | 50.0         | 93               | 70 - 130        |

Report Date: May 11, 2012  
Westgate

Work Order: 12032710  
Westgate

Page Number: 7 of 11  
Hobbs, NM

## Method Blanks

Method Blank (1)      QC Batch: 89756

QC Batch: 89756  
Prep Batch: 76187

Date Analyzed: 2012-03-27  
QC Preparation: 2012-03-27

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL |
|--------------|------|------|---------------|-------|----|
| Benzene      |      | 1    | <0.580        | µg/L  | 1  |
| Toluene      |      | 1    | <0.530        | µg/L  | 1  |
| Ethylbenzene |      | 1    | <0.520        | µg/L  | 1  |
| m,p-Xylene   |      | 1    | <0.500        | µg/L  | 1  |
| o-Xylene     |      | 1    | <0.530        | µg/L  | 1  |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 52.0   | µg/L  | 1        | 50.0            | 104                 | 70 - 130           |
| Toluene-d8                   |      |      | 52.8   | µg/L  | 1        | 50.0            | 106                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 46.4   | µg/L  | 1        | 50.0            | 93                  | 70 - 130           |

Report Date: May 11, 2012  
Westgate

Work Order: 12032710  
Westgate

Page Number: 8 of 11  
Hobbs, NM

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 89756  
Prep Batch: 76187

Date Analyzed: 2012-03-27  
QC Preparation: 2012-03-27

Analyzed By: KB  
Prepared By: KB

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 1 | 56.8          | µg/L  | 1    | 50.0            | <0.580           | 114  | 80 - 132      |
| Toluene      |   | 1 | 58.9          | µg/L  | 1    | 50.0            | <0.530           | 118  | 80 - 135      |
| Ethylbenzene |   | 1 | 55.0          | µg/L  | 1    | 50.0            | <0.520           | 110  | 76.9 - 125    |
| m,p-Xylene   |   | 1 | 110           | µg/L  | 1    | 100             | <0.500           | 110  | 75.2 - 128    |
| o-Xylene     |   | 1 | 55.5          | µg/L  | 1    | 50.0            | <0.530           | 111  | 75.1 - 130    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | F | C | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 1 | 56.7           | µg/L  | 1    | 50.0            | <0.580           | 113  | 80 - 132      | 0   | 20           |
| Toluene      |   | 1 | 58.6           | µg/L  | 1    | 50.0            | <0.530           | 117  | 80 - 135      | 0   | 20           |
| Ethylbenzene |   | 1 | 55.0           | µg/L  | 1    | 50.0            | <0.520           | 110  | 76.9 - 125    | 0   | 20           |
| m,p-Xylene   |   | 1 | 110            | µg/L  | 1    | 100             | <0.500           | 110  | 75.2 - 128    | 0   | 20           |
| o-Xylene     |   | 1 | 55.5           | µg/L  | 1    | 50.0            | <0.530           | 111  | 75.1 - 130    | 0   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Dibromofluoromethane         | 51.5          | 51.3           | µg/L  | 1    | 50.0            | 103         | 103          | 70 - 130      |
| Toluene-d8                   | 47.9          | 47.8           | µg/L  | 1    | 50.0            | 96          | 96           | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 51.9          | 51.9           | µg/L  | 1    | 50.0            | 104         | 104          | 70 - 130      |

### Matrix Spike (xMS-1) Spiked Sample:

QC Batch: 89756  
Prep Batch: 76187

Date Analyzed: 2012-03-27  
QC Preparation: 2012-03-27

Analyzed By: KB  
Prepared By: KB

| Param   | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|---------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene |   | 1 | 58.2         | µg/L  | 1    | 50.0            | 1.23             | 114  | 72.3 - 138    |
| Toluene |   | 1 | 59.0         | µg/L  | 1    | 50.0            | <0.530           | 118  | 70.5 - 141    |

*continued ...*

Report Date: May 11, 2012  
Westgate

Work Order: 12032710  
Westgate

Page Number: 9 of 11  
Hobbs, NM

*matrix spikes continued ...*

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Ethylbenzene |   | 1 | 55.4         | µg/L  | 1    | 50.0            | <0.520           | 111  | 68.4 - 130    |
| m,p-Xylene   |   | 1 | 110          | µg/L  | 1    | 100             | <0.500           | 110  | 57.2 - 141    |
| o-Xylene     |   | 1 | 56.2         | µg/L  | 1    | 50.0            | <0.530           | 112  | 68.3 - 134    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 1 | 57.2          | µg/L  | 1    | 50.0            | 1.23             | 112  | 72.3 - 138    | 2   | 20           |
| Toluene      |   | 1 | 58.4          | µg/L  | 1    | 50.0            | <0.530           | 117  | 70.5 - 141    | 1   | 20           |
| Ethylbenzene |   | 1 | 54.1          | µg/L  | 1    | 50.0            | <0.520           | 108  | 68.4 - 130    | 2   | 20           |
| m,p-Xylene   |   | 1 | 108           | µg/L  | 1    | 100             | <0.500           | 108  | 57.2 - 141    | 2   | 20           |
| o-Xylene     |   | 1 | 55.0          | µg/L  | 1    | 50.0            | <0.530           | 110  | 68.3 - 134    | 2   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 51.8         | 52.0          | µg/L  | 1    | 50              | 104        | 104         | 70 - 130      |
| Toluene-d8                   | 48.6         | 48.1          | µg/L  | 1    | 50              | 97         | 96          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 51.9         | 51.9          | µg/L  | 1    | 50              | 104        | 104         | 70 - 130      |

Report Date: May 11, 2012  
Westgate

Work Order: 12032710  
Westgate

Page Number: 10 of 11  
Hobbs, NM

---

## Calibration Standards



**BioAquatic Testing**  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

MAF 28 2012



## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: June 25, 2012

Work Order: 12062227



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 301778 | MW #10      | water  | 2012-06-20 | 11:09      | 2012-06-22    |
| 301779 | MW #8       | water  | 2012-06-20 | 13:29      | 2012-06-22    |
| 301780 | MW #9       | water  | 2012-06-20 | 14:38      | 2012-06-22    |

**Sample: 301778 - MW #10**

| Param        | Flag | Result | Units | RL |
|--------------|------|--------|-------|----|
| Benzene      |      | <1.00  | µg/L  | 1  |
| Toluene      |      | <1.00  | µg/L  | 1  |
| Ethylbenzene |      | <1.00  | µg/L  | 1  |
| m,p-Xylene   |      | <1.00  | µg/L  | 1  |
| o-Xylene     |      | <1.00  | µg/L  | 1  |

**Sample: 301779 - MW #8**

| Param        | Flag | Result | Units | RL |
|--------------|------|--------|-------|----|
| Benzene      |      | <1.00  | µg/L  | 1  |
| Toluene      |      | <1.00  | µg/L  | 1  |
| Ethylbenzene |      | <1.00  | µg/L  | 1  |
| m,p-Xylene   |      | <1.00  | µg/L  | 1  |
| o-Xylene     |      | <1.00  | µg/L  | 1  |

---

Sample: 301780 - MW #9

| Param        | Flag | Result | Units | RL |
|--------------|------|--------|-------|----|
| Benzene      |      | <1.00  | µg/L  | 1  |
| Toluene      |      | <1.00  | µg/L  | 1  |
| Ethylbenzene |      | <1.00  | µg/L  | 1  |
| m,p-Xylene   |      | <1.00  | µg/L  | 1  |
| o-Xylene     |      | <1.00  | µg/L  | 1  |

---



6701 Aberdeen Avenue, Suite 9      Lubbock, Texas 79424      800-378-1296      806-794-1296      FAX 806-794-1298  
200 East Sunset Road, Suite E      El Paso, Texas 79922      915-585-3443      FAX 915-585-4944  
5002 Basin Street, Suite A1      Midland, Texas 79703      432-689-5301      FAX 432-689-6313  
(BioAqualic) 2501 Mayes Rd., Suite 100      Carrollton, Texas 75006      972-242-7750  
E-Mail: [lab@traceanalysis.com](mailto:lab@traceanalysis.com)      WEB: [www.traceanalysis.com](http://www.traceanalysis.com)

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: June 25, 2012

Work Order: 12062227



GL::                      A7260160  
LOU:                     4900003290  
Project Location:      Hobbs, NM  
Project Name:          Westgate  
Project Number:       Westgate  
WBS:                    P.US.DIS.Er.06.001.0945B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 301778 | MW #10      | water  | 2012-06-20 | 11:09      | 2012-06-22    |
| 301779 | MW #8       | water  | 2012-06-20 | 13:29      | 2012-06-22    |
| 301780 | MW #9       | water  | 2012-06-20 | 14:38      | 2012-06-22    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

*Michael Abel*

---

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager

# Report Contents

|                                             |           |
|---------------------------------------------|-----------|
| <b>Case Narrative</b>                       | <b>4</b>  |
| <b>Analytical Report</b>                    | <b>5</b>  |
| Sample 301778 (MW #10) . . . . .            | 5         |
| Sample 301779 (MW #8) . . . . .             | 5         |
| Sample 301780 (MW #9) . . . . .             | 6         |
| <b>Method Blanks</b>                        | <b>7</b>  |
| QC Batch 92462 - Method Blank (1) . . . . . | 7         |
| <b>Laboratory Control Spikes</b>            | <b>8</b>  |
| QC Batch 92462 - LCS (1) . . . . .          | 8         |
| QC Batch 92462 - xMS (1) . . . . .          | 8         |
| <b>Calibration Standards</b>                | <b>10</b> |
| QC Batch 92462 - CCV (1) . . . . .          | 10        |
| <b>Appendix</b>                             | <b>11</b> |
| Report Definitions . . . . .                | 11        |
| Laboratory Certifications . . . . .         | 11        |
| Standard Flags . . . . .                    | 11        |
| Attachments . . . . .                       | 11        |

## Case Narrative

Samples for project Westgate were received by TraceAnalysis, Inc. on 2012-06-22 and assigned to work order 12062227. Samples for work order 12062227 were received intact without headspace and at a temperature of 3.1 C.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method   | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|-----------|----------|---------------|---------------------|-------------|---------------------|
| Volatiles | S 8260 C | 78421         | 2012-06-24 at 12:00 | 92462       | 2012-06-24 at 12:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 12062227 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: June 25, 2012  
Westgate

Work Order: 12062227  
Westgate

Page Number: 5 of 11  
Hobbs, NM

## Analytical Report

Sample: 301778 - MW #10

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 92462  
Prep Batch: 78421

Analytical Method: S 8260 C  
Date Analyzed: 2012-06-24  
Sample Preparation: 2012-06-24

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 51.8   | µg/L  | 1        | 50.0            | 104                 | 70 - 130           |
| Toluene-d8                   |      |      | 48.4   | µg/L  | 1        | 50.0            | 97                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 51.2   | µg/L  | 1        | 50.0            | 102                 | 70 - 130           |

Sample: 301779 - MW #8

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 92462  
Prep Batch: 78421

Analytical Method: S 8260 C  
Date Analyzed: 2012-06-24  
Sample Preparation: 2012-06-24

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate            | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|----------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane |      |      | 51.6   | µg/L  | 1        | 50.0            | 103                 | 70 - 130           |
| Toluene-d8           |      |      | 48.6   | µg/L  | 1        | 50.0            | 97                  | 70 - 130           |

continued ...

Report Date: June 25, 2012  
Westgate

Work Order: 12062227  
Westgate

Page Number: 6 of 11  
Hobbs, NM

sample continued ...

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| 4-Bromofluorobenzene (4-BFB) |      |      | 51.0   | µg/L  | 1        | 50.0         | 102              | 70 - 130        |

**Sample: 301780 - MW #9**

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 92462  
Prep Batch: 78421

Analytical Method: S 8260 C  
Date Analyzed: 2012-06-24  
Sample Preparation: 2012-06-24

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Ethylbenzene | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane         |      |      | 51.8   | µg/L  | 1        | 50.0         | 104              | 70 - 130        |
| Toluene-d8                   |      |      | 48.6   | µg/L  | 1        | 50.0         | 97               | 70 - 130        |
| 4-Bromofluorobenzene (4-BFB) |      |      | 50.8   | µg/L  | 1        | 50.0         | 102              | 70 - 130        |



Report Date: June 25, 2012  
Westgate

Work Order: 12062227  
Westgate

Page Number: 7 of 11  
Hobbs, NM

## Method Blanks

Method Blank (1)      QC Batch: 92462

QC Batch: 92462  
Prep Batch: 78421

Date Analyzed: 2012-06-24  
QC Preparation: 2012-06-24

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL |
|--------------|------|------|---------------|-------|----|
| Benzene      |      | 1    | <0.580        | µg/L  | 1  |
| Toluene      |      | 1    | <0.530        | µg/L  | 1  |
| Ethylbenzene |      | 1    | <0.520        | µg/L  | 1  |
| m,p-Xylene   |      | 1    | <0.500        | µg/L  | 1  |
| o-Xylene     |      | 1    | <0.530        | µg/L  | 1  |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 52.1   | µg/L  | 1        | 50.0            | 104                 | 70 - 130           |
| Toluene-d8                   |      |      | 48.3   | µg/L  | 1        | 50.0            | 97                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 51.4   | µg/L  | 1        | 50.0            | 103                 | 70 - 130           |

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 92462  
Prep Batch: 78421

Date Analyzed: 2012-06-24  
QC Preparation: 2012-06-24

Analyzed By: KB  
Prepared By: KB

| Param        | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Benzene      |   | 1 | 50.3       | µg/L  | 1    | 50.0         | <0.580        | 101  | 80 - 132   |
| Toluene      |   | 1 | 50.9       | µg/L  | 1    | 50.0         | <0.530        | 102  | 80 - 135   |
| Ethylbenzene |   | 1 | 49.7       | µg/L  | 1    | 50.0         | <0.520        | 99   | 76.9 - 125 |
| m,p-Xylene   |   | 1 | 99.4       | µg/L  | 1    | 100          | <0.500        | 99   | 75.2 - 128 |
| o-Xylene     |   | 1 | 50.3       | µg/L  | 1    | 50.0         | <0.530        | 101  | 75.1 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene      |   | 1 | 51.4       | µg/L  | 1    | 50.0         | <0.580        | 103  | 80 - 132   | 2   | 20        |
| Toluene      |   | 1 | 51.3       | µg/L  | 1    | 50.0         | <0.530        | 103  | 80 - 135   | 1   | 20        |
| Ethylbenzene |   | 1 | 49.7       | µg/L  | 1    | 50.0         | <0.520        | 99   | 76.9 - 125 | 0   | 20        |
| m,p-Xylene   |   | 1 | 99.8       | µg/L  | 1    | 100          | <0.500        | 100  | 75.2 - 128 | 0   | 20        |
| o-Xylene     |   | 1 | 50.8       | µg/L  | 1    | 50.0         | <0.530        | 102  | 75.1 - 130 | 1   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit |
|------------------------------|------------|------------|-------|------|--------------|----------|----------|------------|
| Dibromofluoromethane         | 50.5       | 51.0       | µg/L  | 1    | 50.0         | 101      | 102      | 70 - 130   |
| Toluene-d8                   | 47.8       | 47.7       | µg/L  | 1    | 50.0         | 96       | 95       | 70 - 130   |
| 4-Bromofluorobenzene (4-BFB) | 49.5       | 49.7       | µg/L  | 1    | 50.0         | 99       | 99       | 70 - 130   |

### Matrix Spike (xMS-1) Spiked Sample:

QC Batch: 92462  
Prep Batch: 78421

Date Analyzed: 2012-06-24  
QC Preparation: 2012-06-24

Analyzed By: KB  
Prepared By: KB

| Param   | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Benzene |   | 1 | 50.5      | µg/L  | 1    | 50.0         | <0.580        | 101  | 72.3 - 138 |
| Toluene |   | 1 | 51.0      | µg/L  | 1    | 50.0         | <0.530        | 102  | 70.5 - 141 |

*continued ...*

matrix spikes continued ...

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Ethylbenzene |   | 1 | 49.0         | µg/L  | 1    | 50.0            | <0.520           | 98   | 68.4 - 130    |
| m,p-Xylene   |   | 1 | 98.1         | µg/L  | 1    | 100             | <0.500           | 98   | 57.2 - 141    |
| o-Xylene     |   | 1 | 50.0         | µg/L  | 1    | 50.0            | <0.530           | 100  | 68.3 - 134    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 1 | 51.2          | µg/L  | 1    | 50.0            | <0.580           | 102  | 72.3 - 138    | 1   | 20           |
| Toluene      |   | 1 | 51.8          | µg/L  | 1    | 50.0            | <0.530           | 104  | 70.5 - 141    | 2   | 20           |
| Ethylbenzene |   | 1 | 50.2          | µg/L  | 1    | 50.0            | <0.520           | 100  | 68.4 - 130    | 2   | 20           |
| m,p-Xylene   |   | 1 | 100           | µg/L  | 1    | 100             | <0.500           | 100  | 57.2 - 141    | 2   | 20           |
| o-Xylene     |   | 1 | 51.4          | µg/L  | 1    | 50.0            | <0.530           | 103  | 68.3 - 134    | 3   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 49.2         | 49.7          | µg/L  | 1    | 50              | 98         | 99          | 70 - 130      |
| Toluene-d8                   | 47.4         | 48.1          | µg/L  | 1    | 50              | 95         | 96          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 49.6         | 49.8          | µg/L  | 1    | 50              | 99         | 100         | 70 - 130      |

## Calibration Standards

### Standard (CCV-1)

QC Batch: 92462

Date Analyzed: 2012-06-24

Analyzed By: KB

| Param        | Flag | Cert | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | 1    | µg/L  | 50.0                  | 50.7                   | 101                         | 80 - 120                      | 2012-06-24       |
| Toluene      |      | 1    | µg/L  | 50.0                  | 50.8                   | 102                         | 80 - 120                      | 2012-06-24       |
| Ethylbenzene |      | 1    | µg/L  | 50.0                  | 49.7                   | 99                          | 80 - 120                      | 2012-06-24       |
| m,p-Xylene   |      | 1    | µg/L  | 100                   | 99.8                   | 100                         | 80 - 120                      | 2012-06-24       |
| o-Xylene     |      | 1    | µg/L  | 50.0                  | 50.2                   | 100                         | 80 - 120                      | 2012-06-24       |

## Appendix

### Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

### Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704219-12-8      | Lubbock             |

### Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |
| Qsr | Surrogate recovery outside of laboratory limits.                                                                                                                                                                                    |
| U   | The analyte is not detected above the SDL                                                                                                                                                                                           |

### Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

# Trace Analysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

5002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 585-3443

BioAqueatic Testing  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

**Company Name:**

BBC International  
(Street, City, Zip)

**Phone #:**

(575) 397-6388

**Fax #:**

(575) 397-0397

**Contact Person:**

Cliff Brunsen

**E-mail:****Invoice to:**

(If different from above)

**Project #:**

Same

**Project Name:**

Westgate

**Project Location (Including state):****Sampler Signature:**

Hobbs, NM

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |     |        | PRESERVATIVE METHOD |                  |                                |      |     | SAMPLING |      |
|-------------------------|------------|--------------|-----------------|--------|-----|--------|---------------------|------------------|--------------------------------|------|-----|----------|------|
|                         |            |              |                 | WATER  | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | DATE     | TIME |
| 30178                   | MW #10     | 3            | var             | X      |     |        | X                   |                  |                                |      | X   | 6-20     | 1109 |
| 779                     | MW #8      | 3            | var             | X      |     |        | X                   |                  |                                |      | X   | 6-20     | 1219 |
| 780                     | MW #9      | 3            | var             | X      |     |        | X                   |                  |                                |      | X   | 6-20     | 2305 |
|                         | Temp Blank | 1            |                 |        |     |        |                     |                  |                                |      |     |          |      |

## ANALYSIS REQUEST (Circle or Specify Method No.)

|                              |                             |                                      |                           |                |                                                 |                                     |                     |                 |     |                       |                             |                 |                       |              |                  |                                                                                                 |                        |                                             |
|------------------------------|-----------------------------|--------------------------------------|---------------------------|----------------|-------------------------------------------------|-------------------------------------|---------------------|-----------------|-----|-----------------------|-----------------------------|-----------------|-----------------------|--------------|------------------|-------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------|
| MTBE 8021 / 602 / 8260 / 624 | BTX 8021 / 602 / 8260 / 624 | TPH 418.1 / TX1005 / TX1005 Ekt(C35) | TPH 8015 GRO / DRO / TVHC | PAH 8270 / 625 | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC/MS Vol. 8260 / 624 | GC/MS Semi. Vol. 8270 / 625 | PCBs 8082 / 608 | Pesticides 8081 / 608 | BOD, TSS, pH | Moisture Content | Cl, F, SO <sub>4</sub> , NO <sub>3</sub> -N, NO <sub>2</sub> -N, PO <sub>4</sub> -P, Alkalinity | Na, Ca, Mg, K, TDS, EC | Turn Around Time if different from standard |
|------------------------------|-----------------------------|--------------------------------------|---------------------------|----------------|-------------------------------------------------|-------------------------------------|---------------------|-----------------|-----|-----------------------|-----------------------------|-----------------|-----------------------|--------------|------------------|-------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------|

| Relinquished by: | Company: | Date:   | Time: | Received by: | Company: | Date: | Time: | INST | OBS | COR |
|------------------|----------|---------|-------|--------------|----------|-------|-------|------|-----|-----|
|                  |          |         |       |              |          |       |       |      |     |     |
| V.A. Omler       | BBC      | 6-20-12 | 500   |              |          |       |       |      |     |     |
| Relinquished by: | Company: | Date:   | Time: | Received by: | Company: | Date: | Time: | INST | OBS | COR |
|                  |          |         |       |              |          |       |       |      |     |     |
| Relinquished by: | Company: | Date:   | Time: | Received by: | Company: | Date: | Time: | INST | OBS | COR |
|                  |          |         |       |              |          |       |       |      |     |     |

**LAB USE ONLY**

INST ☐ OBS ☐ COR ☐

INST ☐ OBS ☐ COR ☐

INST ☐ OBS ☐ COR ☐

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

**Carrier #**

7260145 5407957

## Summary Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM 88240

Report Date: July 30, 2012

Work Order: 12072528



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 304651 | MW #5       | water  | 2012-07-29 | 11:00      | 2012-07-25    |

**Sample: 304651 - MW #5**

| Param        | Flag | Result | Units | RL |
|--------------|------|--------|-------|----|
| Benzene      |      | <1.00  | µg/L  | 1  |
| Toluene      |      | 2.22   | µg/L  | 1  |
| Ethylbenzene |      | <1.00  | µg/L  | 1  |
| m,p-Xylene   |      | <1.00  | µg/L  | 1  |
| o-Xylene     |      | <1.00  | µg/L  | 1  |



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1298 806-794-1298 FAX 806-794-1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313  
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

## Analytical and Quality Control Report

Cliff Brunson  
BBC International  
1324 W. Marland  
Hobbs, NM, 88240

Report Date: July 30, 2012

Work Order: 12072528



GL:: A7260160  
LOU: 4900003290  
Project Location: Hobbs, NM  
Project Name: Westgate  
Project Number: Westgate  
WBS: P.US.DIS.Er.06.001.0945B

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 304651 | MW #5       | water  | 2012-07-29 | 11:00      | 2012-07-25    |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director  
Dr. Michael Abel, Project Manager



# Report Contents

|                                   |   |
|-----------------------------------|---|
| Case Narrative                    | 3 |
| Analytical Report                 | 4 |
| Sample 304651 (MW #5 )            | 4 |
| Method Blanks                     | 5 |
| QC Batch 93412 - Method Blank (1) | 5 |
| Laboratory Control Spikes         | 6 |
| QC Batch 93412 - LCS (1)          | 6 |
| QC Batch 93412 - xMS (1)          | 6 |
| Calibration Standards             | 8 |
| QC Batch 93412 - CCV (1)          | 8 |
| Appendix                          | 9 |
| Report Definitions                | 9 |
| Laboratory Certifications         | 9 |
| Standard Flags                    | 9 |
| Attachments                       | 9 |

## Case Narrative

Samples for project Westgate were received by TraccAnalysis, Inc. on 2012-07-25 and assigned to work order 12072528. Samples for work order 12072528 were received intact without headspace and at a temperature of 5.2 C.

Samples were analyzed for the following tests using their respective methods.

| Test      | Method   | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|-----------|----------|---------------|---------------------|-------------|---------------------|
| Volatiles | S 8260 C | 79209         | 2012-07-26 at 12:00 | 93412       | 2012-07-26 at 12:00 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 12072528 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: July 30, 2012  
Westgate

Work Order: 12072528  
Westgate

Page Number: 4 of 9  
Hobbs, NM

## Analytical Report

Sample: 304651 - MW #5

Laboratory: Lubbock  
Analysis: Volatiles  
QC Batch: 93412  
Prep Batch: 79209

Analytical Method: S 8260 C  
Date Analyzed: 2012-07-26  
Sample Preparation: 2012-07-26

Prep Method: S 5030B  
Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL   |
|--------------|------|------|--------------|-------|----------|------|
| Benzene      | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| Toluene      |      | 1    | <b>2.22</b>  | µg/L  | 1        | 1.00 |
| Ethylbenzene | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| m,p-Xylene   | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |
| o-Xylene     | u    | 1    | <1.00        | µg/L  | 1        | 1.00 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 52.6   | µg/L  | 1        | 50.0            | 105                 | 70 - 130           |
| Toluene-d8                   |      |      | 48.0   | µg/L  | 1        | 50.0            | 96                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 50.9   | µg/L  | 1        | 50.0            | 102                 | 70 - 130           |

Report Date: July 30, 2012  
Westgate

Work Order: 12072528  
Westgate

Page Number: 5 of 9  
Hobbs, NM

## Method Blanks

Method Blank (1)      QC Batch: 93412

QC Batch: 93412  
Prep Batch: 79209

Date Analyzed: 2012-07-26  
QC Preparation: 2012-07-26

Analyzed By: KB  
Prepared By: KB

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL |
|--------------|------|------|---------------|-------|----|
| MTBE         |      | 1    | <0.430        | µg/L  | 1  |
| Benzene      |      | 1    | <0.580        | µg/L  | 1  |
| Toluene      |      | 1    | <0.530        | µg/L  | 1  |
| Ethylbenzene |      | 1    | <0.520        | µg/L  | 1  |
| m,p-Xylene   |      | 1    | <0.500        | µg/L  | 1  |
| o-Xylene     |      | 1    | <0.530        | µg/L  | 1  |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Dibromofluoromethane         |      |      | 52.6   | µg/L  | 1        | 50.0            | 105                 | 70 - 130           |
| Toluene-d8                   |      |      | 48.3   | µg/L  | 1        | 50.0            | 97                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 52.5   | µg/L  | 1        | 50.0            | 105                 | 70 - 130           |

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 93412  
Prep Batch: 79209

Date Analyzed: 2012-07-26  
QC Preparation: 2012-07-26

Analyzed By: KB  
Prepared By: KB

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| MTBE         |   | 1 | 52.2          | µg/L  | 1    | 50.0            | <0.430           | 104  | 73.8 - 137    |
| Benzene      |   | 1 | 52.2          | µg/L  | 1    | 50.0            | <0.580           | 104  | 80 - 132      |
| Toluene      |   | 1 | 51.4          | µg/L  | 1    | 50.0            | <0.530           | 103  | 80 - 135      |
| Ethylbenzene |   | 1 | 46.2          | µg/L  | 1    | 50.0            | <0.520           | 92   | 76.9 - 125    |
| m,p-Xylene   |   | 1 | 92.7          | µg/L  | 1    | 100             | <0.500           | 93   | 75.2 - 128    |
| o-Xylene     |   | 1 | 47.1          | µg/L  | 1    | 50.0            | <0.530           | 94   | 75.1 - 130    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        | F | C | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| MTBE         |   | 1 | 55.4           | µg/L  | 1    | 50.0            | <0.430           | 111  | 73.8 - 137    | 6   | 20           |
| Benzene      |   | 1 | 53.8           | µg/L  | 1    | 50.0            | <0.580           | 108  | 80 - 132      | 3   | 20           |
| Toluene      |   | 1 | 53.5           | µg/L  | 1    | 50.0            | <0.530           | 107  | 80 - 135      | 4   | 20           |
| Ethylbenzene |   | 1 | 47.5           | µg/L  | 1    | 50.0            | <0.520           | 95   | 76.9 - 125    | 3   | 20           |
| m,p-Xylene   |   | 1 | 95.3           | µg/L  | 1    | 100             | <0.500           | 95   | 75.2 - 128    | 3   | 20           |
| o-Xylene     |   | 1 | 48.3           | µg/L  | 1    | 50.0            | <0.530           | 97   | 75.1 - 130    | 2   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Dibromofluoromethane         | 51.6          | 51.4           | µg/L  | 1    | 50.0            | 103         | 103          | 70 - 130      |
| Toluene-d8                   | 47.2          | 47.3           | µg/L  | 1    | 50.0            | 94          | 95           | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 51.0          | 51.3           | µg/L  | 1    | 50.0            | 102         | 103          | 70 - 130      |

### Matrix Spike (xMS-1) Spiked Sample:

QC Batch: 93412  
Prep Batch: 79209

Date Analyzed: 2012-07-26  
QC Preparation: 2012-07-26

Analyzed By: KB  
Prepared By: KB

*continued ...*

Report Date: July 30, 2012  
Westgate

Work Order: 12072528  
Westgate

Page Number: 7 of 9  
Hobbs, NM

matrix spikes continued ...

matrix spikes continued ...

| Param        | F  | C  | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |            |
|--------------|----|----|--------------|-------|------|-----------------|------------------|------|---------------|------------|
| Param        | F  | C  | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |            |
| MTBE         | Q* | Q* | 1            | 397   | µg/L | 1               | 50.0             | 395  | 4             | 64.6 - 140 |
| Benzene      |    |    | 1            | 101   | µg/L | 1               | 50.0             | 48.4 | 105           | 72.3 - 138 |
| Toluene      |    |    | 1            | 55.6  | µg/L | 1               | 50.0             | 2.25 | 107           | 70.5 - 141 |
| Ethylbenzene |    |    | 1            | 48.4  | µg/L | 1               | 50.0             | 1.25 | 94            | 68.4 - 130 |
| m,p-Xylene   |    |    | 1            | 102   | µg/L | 1               | 100              | 8.36 | 94            | 57.2 - 141 |
| o-Xylene     |    |    | 1            | 51.4  | µg/L | 1               | 50.0             | 3.51 | 96            | 68.3 - 134 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param        |                |                | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|----------------|----------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| MTBE         | Q <sub>n</sub> | Q <sub>s</sub> | 1 | 1 | 406           | µg/L  | 1    | 50.0            | 395              | 22   | 64.6 - 140    | 2   | 20           |
| Benzene      |                |                | 1 | 1 | 99.9          | µg/L  | 1    | 50.0            | 48.4             | 103  | 72.3 - 138    | 1   | 20           |
| Toluene      |                |                | 1 | 1 | 55.0          | µg/L  | 1    | 50.0            | 2.25             | 106  | 70.5 - 141    | 1   | 20           |
| Ethylbenzene |                |                | 1 | 1 | 48.7          | µg/L  | 1    | 50.0            | 1.25             | 95   | 68.4 - 130    | 1   | 20           |
| m,p-Xylene   |                |                | 1 | 1 | 103           | µg/L  | 1    | 100             | 8.36             | 95   | 57.2 - 141    | 1   | 20           |
| o-Xylene     |                |                | 1 | 1 | 52.2          | µg/L  | 1    | 50.0            | 3.51             | 97   | 68.3 - 134    | 2   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Dibromofluoromethane         | 50.5         | 50.9          | µg/L  | 1    | 50              | 101        | 102         | 70 - 130      |
| Toluene-d8                   | 46.4         | 47.6          | µg/L  | 1    | 50              | 93         | 95          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 49.9         | 50.9          | µg/L  | 1    | 50              | 100        | 102         | 70 - 130      |

Report Date: July 30, 2012  
Westgate

Work Order: 12072528  
Westgate

Page Number: 8 of 9  
Hobbs, NM

## Calibration Standards

Standard (CCV-1)

QC Batch: 93412

Date Analyzed: 2012-07-26

Analyzed By: KB

| Param        | Flag | Cert | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | 1    | µg/L  | 50.0                  | 53.0                   | 106                         | 80 - 120                      | 2012-07-26       |
| Benzene      |      | 1    | µg/L  | 50.0                  | 53.4                   | 107                         | 80 - 120                      | 2012-07-26       |
| Toluene      |      | 1    | µg/L  | 50.0                  | 52.9                   | 106                         | 80 - 120                      | 2012-07-26       |
| Ethylbenzene |      | 1    | µg/L  | 50.0                  | 47.5                   | 95                          | 80 - 120                      | 2012-07-26       |
| m,p-Xylene   |      | 1    | µg/L  | 100                   | 95.7                   | 96                          | 80 - 120                      | 2012-07-26       |
| o-Xylene     |      | 1    | µg/L  | 50.0                  | 48.6                   | 97                          | 80 - 120                      | 2012-07-26       |

## Appendix

### Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

### Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704219-12-8      | Lubbock             |

### Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Jc  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |
| Qsr | Surrogate recovery outside of laboratory limits.                                                                                                                                                                                    |
| U   | The analyte is not detected above the SDL                                                                                                                                                                                           |

### Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.







# Figure 1

---

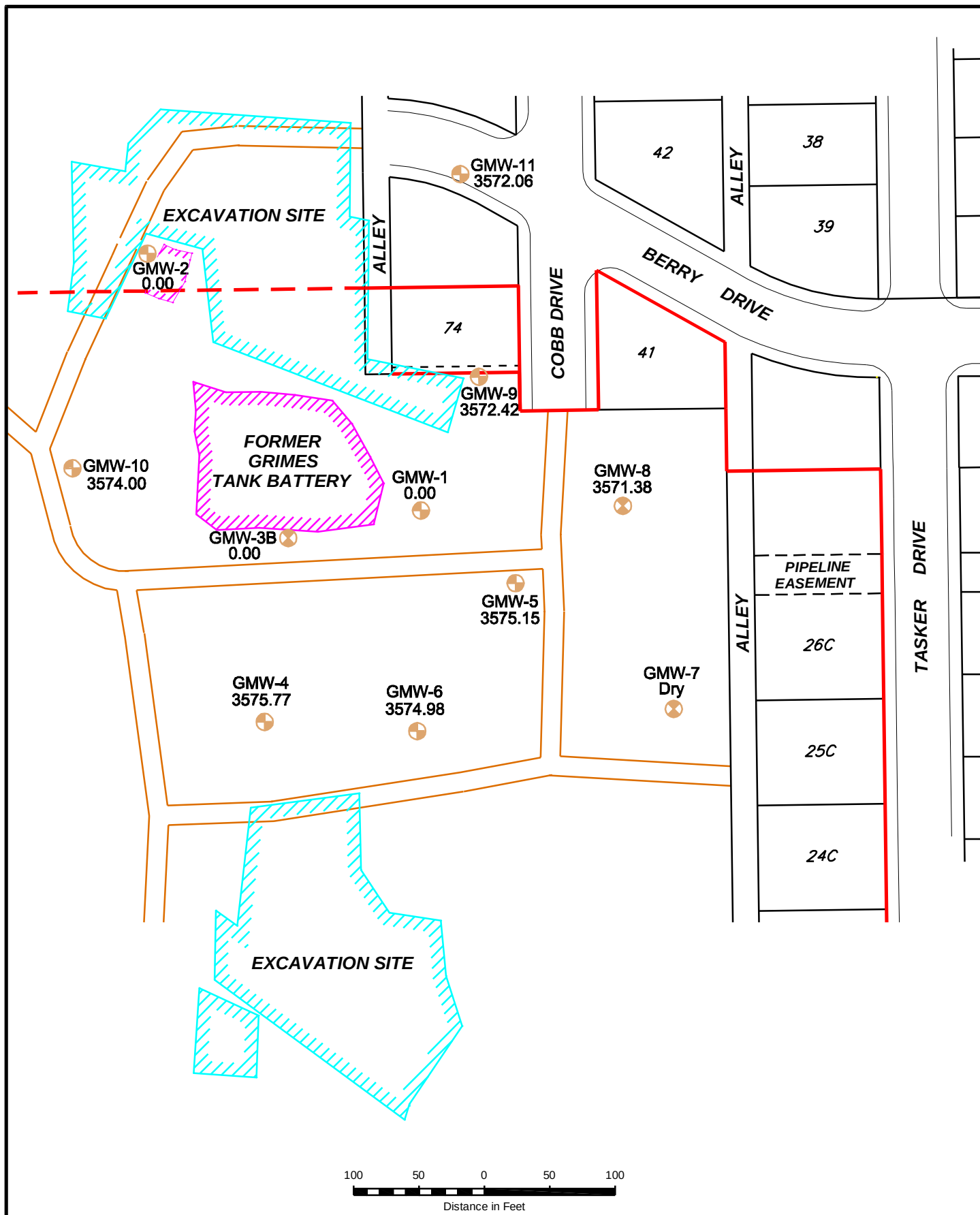
## Site Monitor Well Diagram

Westgate Subdivision  
Grimes Battery & Tasker Road

**August 2012**

Shell Exploration & Production Company  
Houston, Texas

Prepared by:  
BBC International, Inc.



**Legend:**



Former Excavation and Backfill Area



Monitor Well Location

ND Non Detect

NS Non Sampled

P & A Plugged & Abandoned



**Figure 1**  
**Site Map**  
**Grimes Battery & Tasker Road**  
**Westgate Subdivision**  
**Lea County, NM**



**BBC International Inc.**  
**World-Wide Environmental Specialists**  
**Hobbs, New Mexico**

Scale: 1" = 100'

Prep By: DSS

Checked By: CB

Submission